

2022 Nebraska Crop Budgets

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The 2022 Nebraska Crop budget projections were created using cropping practice norms for many producers in Nebraska. However, each individual farming operation is unique and these budgets should be used only as a guide. The budgets for 2022 are available in the Agricultural Budget Calculator program at: <https://agbudget.unl.edu/> To modify these budgets you can download UNL budgets into your ABC program account or create your own. In addition, the reports for each of the 2022 crop budgets are saved as printable (pdf) files.

The danger in releasing a tool that can subsequently be modified is that there is no way to verify that no alterations have been made or unrealistic data entered. Therefore, users of the enterprise budgeting tool are responsible for independently verifying all results prior to relying on them.

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Glennis can assist with budgets using the new Ag Budget Calculator (ABC) program. <https://cap.unl.edu/abc>

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Crop Budgeting Procedures

This publication contains 84 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, including:

- 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 is 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 (\$25 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 \$2.82 per gallon for diesel and \$0.10 per kWh for electricity. Repairs and depreciation costs are 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 the footnotes.

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

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

Prices for materials and services in the budgets were obtained in October 2021. Price changes will occur from this timeframe and should be considered by individual operators. Multiple Peril Crop insurance premiums per acre for the crop budgets are based on 2021 figures at the 70% for irrigated and 75% for dryland RP (Revenue Protection). See *Table 6* for costs listed in budgets.

Table 1. Power Unit Cost Data

<i>Name</i>	<i>List Price</i>	<i>Age</i>	<i>Total Tach</i>	<i>Est. Hours per Year</i>
Large Tractor	488,798	7	2,100	300
Medium Tractor	328,385	5	3,000	600
Combine	475,358	10	1,500	300
Electric Pump	10,500	5	2,400	800
Diesel Pump for Pivot	15,750	5	2,400	800
Diesel Pump for Pipe	15,750	5	2,400	800
Windrower	172,338	7	1750	250

Actual federal crop insurance premiums for 2022 will be available for producers in the spring of 2022. Additional hail and wind or other additional insurance coverages per crop were not included in the budgets.

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

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

Overhead costs at \$25 per acre 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 2021 times an investment rate of 3 percent. Until 2018, 4 percent was used. For 2022 budgets, 1.25% of real estate value was used to figure real estate taxes. 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, and real estate opportunity costs.

It should be noted that these budgets are cost estimates only. Revenue projections and profitability estimates are not included. In the UNL Ag Budget Calculator (ABC) program, a revenue

section and additional features for customizing enterprise budgets are included. The 2022 crop budgets are available to download using the ABC program. agbudget.unl.edu/ is the program link or cap.unl.edu/abc provides more information on the new online budgeting program.

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 root worm insecticide can be omitted and there is no need to purchase corn seed with the rootworm trait. This amounts to approximately a \$15.00 per acre savings to the following corn crop.

A second benefit is that 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 \$5.00 per bushel results in a \$50 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 \$32.40 per acre when nitrogen costs seventy-two cents a pound.

The above benefits amount to approximately \$97 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 \$32 per acre.

Table 2. Machinery Cost Data

<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	31,164	5	1,000	ton	10	2.88
Bale Large Square	150,000	5	1,000	ton	16	6.19
Bale Small Square	31,521	5	1,250	ton	4	3.50
Cart	83,445	5	440,000	bushel	1,540	3.00
Chisel	64,688	5	2,000	acre	11	8.26
Chop Stalks	62,533	5	500	acre	12	5.74
Combine Dryland Corn - Header	55,000	5	1,000	acre	8	10.50
Combine Dryland Soybeans - Header	61,000	5	1,000	acre	7	10.50
Combine Dryland Sorghum - Header	58,000	5	1,000	acre	7	10.50
Combine Irr Corn - Header	60,854	5	1,000	acre	6.5	10.50
Combine Irr Dry Beans - Header	59,000	5	1,000	acre	6.5	10.50
Combine Irr Soybeans - Header	70,000	5	1,000	acre	6	10.50
Combine Irr Sorghum - Header	68,000	7	1,000	acre	7	10.50
Combine Irr Dry Beans-Draper Flex Platform/Header	65,000	5	1,000	acre	5.5	10.50
Combine Small Grain - Header	58,000	5	1,000	acre	8	10.47
Combine Sunflowers - Header	50,000	5	1,000	acre	8	10.50
Corrugate	65,970	5	300	acre	7	4.39
Disk	50,869	5	2,000	acre	11	8.29
Double Windrows	11,867	20	300	acre	20	2.11
Drill	66,977	10	1,500	acre	12.5	4.99
Drill Grass	76,058	10	1,000	acre	9	4.29
Drill No-Till	125,000	5	1,000	acre	12	6.07
Drill w/ Fertilizer	76,058	10	1,500	acre	11	5.00
Field Cultivation	71,292	5	2,000	acre	15	8.20
Harrow		5	1,000	acre	19	2.05
Irrigation Ditch	N/A	5	1,000	acre-inch	2	
Irrigation Pipe Diesel 125' Lift	N/A	10	2,600	acre-inch	2	3.03
Irrigation Pivot Diesel 125' Lift	75,000	10	2,600	acre-inch	2	3.34
Irrigation Pivot Diesel 125' Lift w/fertigation	78,000	10	2,600	acre-inch	2	3.34
Irrigation Pivot Electric 125' Lift	75,000	10	2,600	acre-inch	2	
Irrigation Pivot Electric 125' Lift w/fertigation	78,000	10	2,600	acre-inch	2	
Lift Beets	196,050	5	1,000	acre	6	6.19
Load Large Square	6,321	5	3,000	ton	20	4.00
Load Small Square	6,321	5	1,250	ton	10	2.00
Move Large Round	6,321	5	3,000	ton	21	4.00
Pickett Windrowers	48,915	5	1,000	acre	10	6.07
Planter	97,066	5	1,500	acre	10	2.73
Plant Narrow Row	97,066	5	1,500	acre	10	2.58
Plant No-Till	140,000	5	1,500	acre	10	3.38
Plow	17,725	5	1,000	acre	8	6.00
Ridge Cultivate/Ditch	71,437	5	1,000	acre	12	5.33
Ridge Cultivation	71,437	5	1,500	acre	10	5.33
Ridge Plant and Band Herbicide	97,066	5	1,500	acre	13.2	5.35
Rod Weeder	50,869	5	1,000	acre	13	5.35
Rod Weeder & Fertilizer	50,869	5	1,000	acre	13	5.35
Roll		5	300	acre	9	5.46
Roller Harrow	56,113	5	1,000	acre	10	5.00

Table 2. Machinery Cost Data (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>
Rotary Hoe	26,000	5	1,000	acre	15	3.67
Row Crop Cultivation	71,437	5	1,000	acre	11	3.5
Seeder/Packer	66,977	5	1,000	acre	8	4.29
Spray (Prior Year Stubble)	76,250	5	2,500	acre	33	2.64
Spray Fertilizer	76,250	5	1,000	acre	33	2.64
Spray Fertilizer and Herbicide	76,250	5	1,000	acre	33	2.64
Spray Herbicide	76,250	5	2,500	acre	33	2.64
Spray Insecticide	76,250	5	2,500	acre	33	2.64
Spray Spring Burndown Herbicide	76,250	5	2,500	acre	33	2.64
Spread Fertilizer	N/A	5	1,000	acre	13	3.86
Subsoil/One-Pass Tillage	90,996	5	1,000	acre	9	8.25
Swath/Condition Hay	39,170	5	2,000	acre	10	5.00
Till Plant Beets	225,000	5	1,000	acre	6	8.25
Top Beets	100,560	5	1,000	acre	6	3.50
Turn Windrows	11,867	5	1,000	acre	12	2.10
Windrow Grain	39,170	5	3,000	acre	10	5.00

Table 3. Material Prices (prices as of October 2021)

<i>Item</i>	<i>Price per Unit</i>
Additives	
21-0-0-24S	\$0.45 / pound
AMS	\$0.49 / pound
Approved adjuvant	\$2.00 / acre
Crop Oil Concentrate	\$15.00 / gallon
MSO	\$25.00 / gallon
NIS	\$20.00 / gallon
UAN	\$2.55 / gallon

Custom	
Aerial Spray	\$10.00 / acre
Bale Lg Sq 1360 lb	\$15.00 / bale
Broadcast Seed	\$9.30 / acre
Chop, Haul, Pack	\$17.77 / ton
Dry 2 Points Removed	\$0.08 / bushel
Haul & Apply Manure	\$ 6.00 / ton
Haul Beets	\$ 4.00 / ton
Haul Grain (Dry Beans)	\$0.28 / cwt
Haul Grain (Millet)	\$0.24 / cwt
Haul Grain (Sunflower)	\$0.30 / cwt
Haul Grain Bushels	\$0.12 / bushel
Load Large Square Bales	\$2.00 / bale
Spray	\$7.50 / acre

<i>Item</i>	<i>Price per Unit</i>
Fertilizer	
10-34-0	\$3.75 / gallon
10-34-0-1Zn	\$3.85 / gallon
11-52-0	\$0.41 / pound
28-0-0	\$2.25 / gallon
32-0-0	\$0.72 / lbs N
32-0-0 (Applied by Pivot)	\$0.72 / lbs N
32-0-0 (Applied by R2)	\$0.72 / lbs N
46-0-0	\$0.75 / lbs N
82-0-0	\$0.54 / lbs N
Uncomposted manure	\$1.00 / ton

Fungicide and Seed Treatment	
Copper	\$8.00 / pint
Headline AMP	\$210.00 / gallon
Lucento	\$525.00 / gallon
Miravis Neo	\$230.00 / gallon
Pea Seed Inoculant	\$8.00 / acre
Priaxor	\$600.00 / gallon
Proline 480 SC	\$690.00 / gallon
Prosaro 421 SC	\$350.00 / gallon
Quadris	\$240.00 / gallon
Quilt Xcel	\$230.00 / gallon
Revytek	\$420.00 / gallon
Stratego YLD	\$600.00 / gallon
Tilt	\$100.00 / gallon

Table 3. Material Prices (Continued)

<i>Item</i>	<i>Price per Unit</i>
Herbicide	
2,4-D Amine	\$18.00 / gallon
2,4-D Ester 4#	\$21.00 / gallon
AAtrex 4L	\$16.00 / gallon
Acuron	\$55.00 / gallon
Aim 2EC	\$200.00 / quart
Ally Extra SGW/TOTSOL	\$8.00 / ounce
Armezon	\$20.00 / ounce
Armezon Pro	\$170.00 / gallon
Atrazine 4L	\$15.00 / gallon
Atrazine 90 DF	\$4.50 / pound
Authority First DF	\$95.00 / pound
Authority MTZ	\$40.00 / pound
Authority Supreme	\$530.00 / gallon
Balance Flexx	\$5.00 / ounce
Basagran 5L	\$75.00 / gallon
Beyond	\$520.00 / gallon
Bicep II Magnum	\$40.00 / gallon
Brox 2EC	\$45.00 / gallon
Buctril	\$56.00 / gallon
Callisto 4SC	\$260.00 / gallon
Dicamba	\$50.00 / gallon
DiFlexx	\$230.00 / gallon
DiFlexx DUO	\$105.00 / gallon
Distinct	\$43.00 / gallon
Engenia	\$120.00 / gallon
Enlist DUO	\$30.00 / gallon
Enlist One	\$50.00 / gallon
Extreme	\$20.00 / gallon
Fierce	\$130.00 / pound
Fierce MTZ	\$240.00 / gallon
FlexStar GT	\$40.00 / gallon
Glyphosate 5# w/Surfactant	\$45.00 / gallon
Gramoxone SL 2.0	\$18.00 / gallon
Huskie	\$125.00 / gallon
Landmaster BW	\$19.00 / gallon
Laudis	\$610.00 / gallon
Liberty	\$50.00 / gallon
Lumax EZ	\$55.00 / gallon
Outlook	\$165.00 / gallon
Peak	\$17.00 / ounce
Prowl H2O	\$55.00 / gallon
Pursuit	\$470.00 / gallon
Raptor	\$610.00 / gallon
Roundup PowerMax	\$56.00 / gallon
Roundup WeatherMax	\$55.00 / gallon
Rugged	\$40.00 / gallon

<i>Item</i>	<i>Price per Unit</i>
Herbicide	
Scorch	\$55.00 / gallon
Select Max	\$108.00 / gallon
Sharpen	\$850.00 / gallon
Spartan 4F	\$250.00 / gallon
Status	\$4.70 / ounce
Ultra Blazer	\$70.00 / gallon
Valor XLT	\$60.00 / pound
Velpar L	\$115.00 / gallon
Vida	\$530.00 / gallon
Warrant Ultra	\$60.00 / gallon
XtendiMax	\$60.00 / gallon
Zidua Pro	\$550.00 / gallon
Zidua SC	\$780.00 / gallon

Insecticide	
Asana XL	\$80.00 / gallon
Brigade 2EC	\$150.00 / gallon
Capture LFR	\$360.00 / gallon
Mustang Maxx	\$190.00 / gallon
Regent 4 SC	\$10.00 / ounce
Warrior II/Zeon	\$380.00 / gallon

Other	
Electricity Fixed	\$40.00 / acre
Electricity Usage	\$0.10 / kw
Fence/Water Repairs	\$260.00 / circle
Irrigation District O&M Charge	\$35.00 / acre
Move Cattle	\$25.00 / hour
Twine Large Round	\$0.70 / bale
Twine Large Square	\$1.23 / bale
Twine Small Square	\$0.07 / bale

Rental	
Grass Drill	\$18.00 / acre
Seeder/Packer	\$15.00 / acre

Scouting	
Scouting Dry Beans	\$11.00 / acre
Scouting Dryland Corn	\$8.00 / acre
Scouting Dryland Soybeans	\$8.00 / acre
Scouting Dryland Wheat	\$8.00 / acre
Scouting Grain Sorghum	\$8.00 / acre
Scouting Irrigated Corn	\$13.00 / acre
Scouting Irrigated Soybeans	\$13.00 / acre
Scouting Irrigated Wheat	\$8.00 / acre
Scouting Sugar Beets	\$17.00 / acre

Table 3. Material Prices (Continued)

<i>Item</i>	<i>Price per Unit</i>
Seed	
Alfalfa RR 2/Inoculant	\$9.00 / pound
Alfalfa w/Inoculant	\$6.00 / pound
Corn	\$230.00 / bag
Corn Bt, ECB, & RIB	\$260.00 / bag
Corn Bt, ECB, RR2, LL & RIB	\$260.00 / bag
Corn Bt, ECB, RW, & RIB	\$290.00 / bag
Corn Bt, ECB, RW, RR2, LL&RIB	\$290.00 / bag
Corn RR2, LL	\$250.00 / bag
Corn SmartStax RIB Complete	\$300.00 / bag
Cover Crop	\$20.00 / acre
Cover Crop Grazing Mix	\$30.00 / acre
Edible Beans	\$92.00 / cwt
Grass Seed	\$80.00 / acre
Millet (Proso)	\$0.60 / pound
Oats	\$11.00 / bushel
Peas	\$19.00 / bushel

<i>Item</i>	<i>Price per Unit</i>
Seed	
E3 Enlist Soybeans	\$60.00 / bag
E3 Enlist Soybeans Treated	\$72.00 / bag
Liberty Link Treated Soybeans	\$72.00 / bag
RR2 Soybeans	\$60.00 / bag
RR2 Soybeans Treated	\$72.00 / bag
RR2 Soybeans Xtend	\$62.00 / bag
RR2 Soybeans Xtend Treated	\$74.00 / bag
Sorghum Safened/Insect	\$3.50 / pound
Sorghum Sudan	\$0.90 / pound
Sorghum Sudan (Treated)	\$1.20 / pound
Sorghum Sudan Brown (Treated)	\$1.60 / pound
Sorghum Sudan Brown Midrib	\$1.30 / pound
Sugar Beets RR Poncho	\$180.00 / acre
Sunflower Clearfield	\$370.00 / bag
Wheat	\$0.15 / pound
Wheat (Certified Treated)	\$0.25 / pound
Wheat Cover Crop	\$0.12 / pound

Converting Energy Numbers in Budgets

If your energy source is different from that used in the 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 \$0.10 per kilowatt, the calculation would be $14.12 \times 0.10 = \$1.41$. The 2022 crop budgets use \$2.82/gallon for the price of diesel. 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**

<i>Energy Source</i>	<i>Units</i>	<i>Multiplier</i>
Electricity	Kilowatt hours	14.12
Propane	Gallons	1.814
Gasoline	Gallons	1.443
Natural gas	1000 Cubic Feet	0.2026

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

Diesel Fuel Conversion for Center Pivots

The 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 \$2.82/gallon (9 inches x 2.86 gallons). The producer's additional cost would be \$72.59/acre.

Table 5. Adjusting diesel fuel required by center pivots for various lifts and pressures

125 feet of lift and 35 PSI are used in the crop budgets. This table provides adjustment figures for diesel fuel when different lifts and pressures are used.

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
<i>*Multiplier when pumping plant performance rating is less than 100 percent.</i>								
Rating %	100	90	80	70	60	50		
Multiplier	1.00	1.11	1.25	1.43	1.67	2.00		

* Gallons of diesel fuel required to pump an acre-inch of water at pump performance ratings of 100 percent.

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

Table 6. Federal Crop Insurance Premium Estimates

Estimates for 2022 are based on 75% RP on Dryland Crops and 70% RP on Irrigated Crops. (RP is Revenue Protection.)

<i>Budget</i>	<i>Dryland or Irrigated</i>	<i>Area</i>	<i>Yield</i>	<i>Per Acre Premium</i>	<i>Budget</i>	<i>Dryland or Irrigated</i>	<i>Area</i>	<i>Yield</i>	<i>Per Acre Premium</i>
1-Alfalfa	Dryland	State	N/A	N/A	43-Dry Beans	Irrigated	Panhandle	27 cwt	\$ 28.00
2-Alfalfa	Dryland	State	N/A	N/A	44-Dry Beans	Irrigated	Panhandle	27 cwt	\$ 28.00
3-Alfalfa	Dryland	State	N/A	N/A	45-Dry Beans	Irrigated	Panhandle	27 cwt	\$ 28.00
4-Alfalfa	Dryland	State	2.8 ton	N/A	46-Grain Sorghum	Dryland	Southwest	115 bushel	\$ 29.00
5-Alfalfa	Dryland	State	2.8 ton	N/A	47-Grain Sorghum	Dryland	State	135 bushel	\$ 25.00
6-Alfalfa	Irrigated	State	3.8 ton	N/A	48-Grain Sorghum	Dryland	Southwest	120 bushel	\$ 29.00
7-Alfalfa	Irrigated	State	4 ton	N/A	49-Grain Sorghum	Irrigated	State	170 bushel	\$ 16.00
8-Alfalfa	Irrigated	Panhandle	2.5 ton	N/A	50-Grass	Irrigated	State	N/A	N/A
9-Alfalfa	Dryland	State	4.4 ton	N/A	51-Grass Hay	Dryland	State	2.2 ton	N/A
10-Alfalfa	Irrigated	State	6.7 ton	N/A	52-Millet	Dryland	Panhandle	22 cwt	\$ 8.00
11-Alfalfa	Irrigated	State	6.8 ton	N/A	53-Millet	Dryland	Panhandle	22 cwt	\$ 8.00
12-Alfalfa	Irrigated	Panhandle	6.6 ton	N/A	54-Oats	Dryland	State	85 bushel	\$ 12.00
13-Alfalfa	Irrigated	State	6.6 ton	N/A	55-Pasture	Irrigated	State	11 AUM	N/A
14-Alfalfa	Irrigated	State	6.8 ton	N/A	56-Peas	Dryland	Panhandle	35 bushel	\$ 13.00
15-Corn	Dryland	State	100 bushel	\$ 31.00	57-Sorghum-Sudan	Dryland	State	5 ton	N/A
16-Corn	Dryland	State	110 bushel	\$ 31.00	58-Soybeans	Dryland	State	45 bushel	\$ 30.00
17-Corn	Dryland	Eastern	160 bushel	\$ 7.00	59-Soybeans	Dryland	State	50 bushel	\$ 30.00
18-Corn	Dryland	Eastern	170 bushel	\$ 7.00	60-Soybeans	Dryland	State	45 bushel	\$ 30.00
19-Corn	Dryland	State	135 bushel	\$ 34.00	61-Soybeans	Irrigated	State	67 bushel	\$ 8.00
20-Corn	Dryland	Eastern	180 bushel	\$ 7.00	62-Soybeans	Irrigated	State	70 bushel	\$ 8.00
21-Corn	Dryland	State	140 bushel	\$ 34.00	63-Soybeans	Irrigated	State	75 bushel	\$ 8.00
22-Corn	Dryland	Eastern	185 bushel	\$ 7.00	64-Soybeans	Irrigated	State	64 bushel	\$ 8.00
23-Corn	Dryland	State	145 bushel	\$ 35.00	65-Soybeans	Irrigated	State	78 bushel	\$ 8.00
24-Corn	Dryland	Eastern	195 bushel	\$ 8.00	66-Soybeans	Irrigated	State	78 bushel	\$ 8.00
25-Corn	Dryland	Southwest	130 bushel	\$ 31.00	67-Soybeans	Irrigated	State	78 bushel	\$ 8.00
26-Corn	Irrigated	State	245 bushel	\$ 11.00	68-Sugarbeet	Irrigated	Panhandle	26 ton	\$ 42.00
27-Corn	Irrigated	State	255 bushel	\$ 11.00	69-Sugarbeet	Irrigated	Panhandle	26 ton	\$ 42.00
28-Corn	Irrigated	State	250 bushel	\$ 11.00	70-Sugarbeet	Irrigated	Panhandle	26 ton	\$ 42.00
29-Corn	Irrigated	Panhandle	195 bushel	\$ 18.00	71-Sugarbeet	Irrigated	Panhandle	26 ton	\$ 42.00
30-Corn	Irrigated	State	245 bushel	\$ 11.00	72-Sunflower	Dryland	Panhandle	13 cwt	\$ 17.00
31-Corn	Irrigated	State	250 bushel	\$ 11.00	73-Sunflower	Dryland	Panhandle	16 cwt	\$ 17.00
32-Corn	Irrigated	State	260 bushel	\$ 11.00	74-Sunflower	Irrigated	Panhandle	30 cwt	\$ 12.00
33-Corn	Irrigated	State	275 bushel	\$ 12.00	75-Wheat Spring	Dryland	Southwest	40 bushel	\$ 8.26
34-Corn	Irrigated	State	275 bushel	\$ 12.00	76-Wheat-Winter	Dryland	Southwest	55 bushel	\$ 18.00
35-Corn	Irrigated	State	275 bushel	\$ 12.00	77-Wheat-Winter	Dryland	Panhandle	70 bushel	\$ 20.00
36-Corn	Irrigated	State	235 bushel	\$ 11.00	78-Wheat-Winter	Dryland	Panhandle	65 bushel	\$ 19.00
37-Corn	Irrigated	State	245 bushel	\$ 11.00	79-Wheat-Winter	Dryland	Panhandle	60 bushel	\$ 18.00
38-Corn	Irrigated	Panhandle	195 bushel	\$ 18.00	80-Wheat-Winter	Dryland	Southwest	80 bushel	\$ 25.00
39-Corn	Irrigated	Panhandle	205 bushel	\$ 19.00	81-Wheat-Winter	Irrigated	Panhandle	105 bu.	\$ 29.00
40-Corn	Irrigated	State	240 bushel	\$ 11.00	82-Wheat-Winter	Irrigated	Panhandle	90 bushel	\$ 27.00
41-Corn	Irrigated	State	28 ton	\$ 11.00	83-Cover Crop	Dryland	State	N/A	N/A
42-Dry Beans	Irrigated	Panhandle	27 cwt	\$ 28.00	84-Cover Crop Grazing	Dryland	State	N/A	N/A

Source: Crop insurance rates for various crops were provided by the Farm Credit Services of America, North Platte, NE office based on 2021 federal crop insurance rates adjusted by an estimated 20% due to current price volatility and may be higher when rates are released in March 2022. Winter wheat premiums are actuals (established fall 2021). Premiums will vary statewide by location, yield, and coverage level. The estimates in this chart do not include hail insurance premium costs.

** Spring Wheat #74 budget - Crop insurance is only available in Box Butte, Dawes, Sheridan counties for summer fallow spring wheat and may be available under written agreement.*

**2022 Budget 1-Alfalfa, Conventional Tillage, Fall Establishment
Dryland**

Field Operations	Times or Qty	Labor @ Unit	Fuel @ \$2.82 and Lube	Repairs		Ownership		Total	Your Estimate
				Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1	1.97	0.99	0.33	0.00	2.79	0.00	6.08	
2 Disk	1	2.52	2.46	0.12	1.43	9.40	1.29	17.22	
3 Harrow	1	1.48	0.36	0.22	0.00	1.91	0.00	3.97	
4 Harrow	1	1.48	0.36	0.22	0.00	1.91	0.00	3.97	
5 Drill	1	2.20	1.29	0.33	4.64	2.83	1.58	12.87	
6 Roll	1	2.08	1.48	0.34	0.00	2.95	0.00	6.85	
7 Spray Herbicide	1	0.95	0.26	0.13	0.95	1.07	1.72	5.08	
8 Spray Insecticide	0.2	0.19	0.05	0.03	0.19	0.21	0.34	1.01	
Total for Field Operations		12.87	7.25	1.72	7.21	23.07	4.93	57.05	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
11-52-0	Fertilizer	1	100%	100 pound	0.41	41.00
Alfalfa w/Inoculant	Seed	5	100%	12 pound	6.00	72.00
Buctril	Herbicide	7	100%	1 pint	7.00	7.00
Pursuit	Herbicide	7	100%	3 ounce	3.67	11.02
Crop Oil Concentrate	Additive	7	100%	1.6 pint	1.88	3.00
UAN	Additive	7	100%	2 pint	0.32	0.64
Mustang Maxx	Insecticide	8	20%	3 ounce	1.48	0.89
Total Materials & Services					135.55	

Total listed costs for Field Operations and Materials and Services		192.60
Interest on Operations Capital \$ 164.60 cash expense @ 5.50% for 6.0 mo.		4.53
Total Operating and Use Related Ownership Costs		197.13
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)		25.00
Real Estate Opportunity Fall Establishment \$ - per acre @ 3.00%		0.00
Real Estate Taxes \$ - per acre @ 1.25%		0.00
Total Cost per Acre Including Overhead		222.13

**2022 Budget 2-Alfalfa, Roundup Ready®, No Till, Fall Establishment
Dryland**

Field Operations	Times or Qty	Labor @ Unit	Fuel @ \$2.82 \$25.00 /Hr and Lube	Repairs		Ownership		Total	Your Estimate	
				Power	Imp.	Power	Imp.			
1 Spray Herbicide	1	0.95	0.26	0.13	0.95	1.07	1.72	5.08		
2 Drill w/ Fertilizer	1	2.73	1.47	0.38	6.90	3.22	1.80	16.50		
3 Spray Herbicide	1	0.95	0.26	0.13	0.95	1.07	1.72	5.08		
4 Spray Insecticide	0.2	0.19	0.05	0.03	0.19	0.21	0.34	1.01		
Total for Field Operations			4.82	2.04	0.67	8.99	5.57	5.58	27.67	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
11-52-0	Fertilizer	2	100%	100 pound	0.41	41.00	
Alfalfa RR w/Inoculant	Seed	2	100%	12 pound	9.00	108.00	
Buctril	Herbicide	3	100%	1 pint	7.00	7.00	
Roundup PowerMax	Herbicide	3	100%	32 ounce	0.44	14.00	
21-0-0-24S	Additive	3	100%	1.7 pound	0.45	0.77	
Mustang Maxx	Insecticide	4	20%	3 ounce	1.48	0.89	
Total Materials & Services						176.16	

Total listed costs for Field Operations and Materials and Services						203.83	
Interest on Operations Capital	\$ 192.68	cash expense @	5.50%	for 6.0 mo.		5.30	
Total Operating and Use Related Ownership Costs						209.13	

Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)						25.00	
Real Estate Opportunity	Fall Establishment	\$ -	per acre @	3.00%		0.00	
Real Estate Taxes		\$ -	per acre @	1.25%		0.00	
Total Cost per Acre Including Overhead						234.13	

**2022 Budget 3-Alfalfa, Roundup Ready®, Conventional Tillage, Fall Establishment
Dryland**

Field Operations		Times or Qty	Labor @ Unit \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1	Spread Fertilizer	1	1.97	0.99	0.33	0.00	2.79	0.00	6.08	
2	Disk	1	2.52	2.46	0.12	1.43	9.40	1.29	17.22	
3	Harrow	1	1.48	0.36	0.22	0.00	1.91	0.00	3.97	
4	Harrow	1	1.48	0.36	0.22	0.00	1.91	0.00	3.97	
5	Drill	1	2.20	1.29	0.33	4.64	2.83	1.58	12.87	
6	Roll	1	2.08	1.48	0.34	0.00	2.95	0.00	6.85	
7	Spray Herbicide	1	0.95	0.26	0.13	0.95	1.07	1.72	5.08	
8	Spray Insecticide	0.2	0.19	0.05	0.03	0.19	0.21	0.34	1.01	
Total for Field Operations			12.87	7.25	1.72	7.21	23.07	4.93	57.05	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								11-52-0
	Alfalfa RR w/Inoculant	Seed	5	100%	12 pound	9.00	108.00	
	Roundup PowerMax	Herbicide	7	100%	32 ounce	0.44	14.00	
	Brox 2EC	Herbicide	7	100%	1 pint	5.63	5.63	
	21-0-0-24S	Additive	7	100%	1.7 pound	0.45	0.77	
	Mustang Maxx	Insecticide	8	20%	3 ounce	1.48	0.89	
Total Materials & Services						170.29		

Total listed costs for Field Operations and Materials and Services		227.34
Interest on Operations Capital \$ 199.34	cash expense @ 5.50% for 6.0 mo.	5.48
Total Operating and Use Related Ownership Costs		232.82
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)		25.00
Real Estate Opportunity	Fall Establishment	\$ -
Real Estate Taxes		\$ -
Total Cost per Acre Including Overhead		257.82

2022 Budget 4-Alfalfa, Small Square Bales, Conventional Tillage, Establish Spring Seed with Herbicides, 2.8 ton Yield Dryland

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.97	0.99	0.33	0.00	2.79	0.00	6.08	
2 Disk	1		2.52	2.46	0.12	1.43	9.40	1.29	17.22	
3 Field Cultivation	1		1.83	1.77	0.28	1.59	2.36	1.80	9.63	
4 Seeder/Packer	1		3.75	1.74	0.52	3.73	4.43	3.24	17.41	
5 Spray Insecticide	0.2		0.19	0.05	0.03	0.19	0.21	0.34	1.01	
6 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
7 Swath/Condition Hay	2		5.00	3.24	0.78	2.39	4.57	1.56	17.54	
8 Turn Windrows	0.5		1.04	0.28	0.17	0.09	1.48	0.24	3.30	
9 Bale Small Square	2.8	ton	19.25	7.95	2.90	14.09	24.80	3.26	72.25	
10 Load Small Square	2.8	ton	7.00	1.82	1.16	0.39	9.92	0.56	20.85	
Total for Field Operations			43.50	20.56	6.42	24.85	61.03	14.01	170.37	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Seeder/Packer	Rental	4	100%	1 acre	15.00	15.00	
Alfalfa w/Inoculant	Seed	4	100%	12 pound	6.00	72.00	
Mustang Maxx	Insecticide	5	20%	3 ounce	1.48	0.89	
Brox 2EC	Herbicide	6	100%	1 pint	5.63	5.63	
Pursuit	Herbicide	6	100%	3 ounce	3.67	11.02	
Twine Small Square	Other	9	100%	2.8 ton	2.33	6.53	
Total Materials & Services						152.07	

Total listed costs for Field Operations and Materials and Services						322.44	
Interest on Operations Capital \$ 247.40	cash expense @	5.50%	for 6.0 mo.			6.80	
Total Operating and Use Related Ownership Costs						329.24	
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)						25.00	
Real Estate Opportunity [^]	Dryland (State)	\$ 3,380	per acre @	3.00%		101.40	
Real Estate Taxes		\$ 3,380	per acre @	1.25%		42.25	
Total Cost per Acre Including Overhead						497.89	
Cash Cost per ton	[^] Ownership and RE Opportunity not included in cash costs.					114.80	
Cost of production per ton						177.82	

2022 Budget 5-Alfalfa, Roundup Ready®, Small Square Bales, Conventional Tillage, Establish Spring Seed, 2.8 ton Yield Dryland

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership^		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.97	0.99	0.33	0.00	2.79	0.00	6.08	
2 Disk	1		2.52	2.46	0.12	1.43	9.40	1.29	17.22	
3 Field Cultivation	1		1.83	1.77	0.28	1.59	2.36	1.80	9.63	
4 Seeder/Packer	1		3.75	1.74	0.52	3.73	4.43	3.24	17.41	
5 Spray Insecticide	0.2		0.19	0.05	0.03	0.19	0.21	0.34	1.01	
6 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
7 Swath/Condition Hay	2		5.00	3.24	0.78	2.39	4.57	1.56	17.54	
8 Turn Windrows	0.5		1.04	0.28	0.17	0.09	1.48	0.24	3.30	
9 Bale Small Square	2.8	ton	19.25	7.95	2.90	14.09	24.80	3.26	72.25	
10 Load Small Square	2.8	ton	7.00	1.82	1.16	0.39	9.92	0.56	20.85	
Total for Field Operations			43.50	20.56	6.42	24.85	61.03	14.01	170.37	

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	15.00	15.00	
Alfalfa RR w/Inoculant	Seed	4	100%	12 pound	9.00	108.00	
Mustang Maxx	Insecticide	5	20%	3 ounce	1.48	0.89	
Roundup PowerMax	Herbicide	6	100%	32 ounce	0.44	14.00	
21-0-0-24S	Additive	6	100%	1.70 pound	0.45	0.77	
Twine Small Square	Other	9	100%	2.80 ton	2.33	6.53	
Total Materials & Services						186.19	

Total listed costs for Field Operations and Materials and Services 356.56

Interest on Operations Capital \$ 281.52 cash expense @ 5.50% for 6.0 mo. 7.74

Total Operating and Use Related Ownership Costs 364.30

Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests) 25.00

Real Estate Opportunity^ Dryland (State) \$ 3,380 per acre @ 3.00% 101.40

Real Estate Taxes \$ 3,380 per acre @ 1.25% 42.25

Total Cost per Acre Including Overhead 532.95

Cash Cost per ton ^Ownership and RE Opportunity not included in cash costs. 127.33

Cost of production per ton 190.34

**2022 Budget 6-Alfalfa, Large Square Bales, Conventional Tillage, Establish Spring Seed with Herbicides, 3.8 ton Yield
Pivot Irrigated Diesel, 800 GPM 35 PSI, 12 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.97	0.99	0.33	0.00	2.79	0.00	6.08	
2 Disk	1		2.52	2.46	0.12	1.43	9.40	1.29	17.22	
3 Field Cultivation	1		1.83	1.77	0.28	1.59	2.36	1.80	9.63	
4 Seeder/Packer	1		3.75	1.74	0.52	3.73	4.43	3.24	17.41	
5 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
6 Pivot D 125' Lift	12	ai	10.42	72.21	4.12	8.00	7.81	11.39	113.95	
7 Swath/Condition Hay	2		5.00	3.24	0.78	2.39	4.57	1.56	17.54	
8 Turn Windrows	0.5		1.04	0.28	0.17	0.09	1.48	0.24	3.30	
9 Bale Large Square	3.8	ton	6.15	4.48	0.92	2.45	7.92	26.30	48.22	
10 Load Large Square	3.8	ton	5.23	2.46	0.79	0.27	6.73	0.32	15.80	
11 Spray Insecticide	0.5		0.47	0.13	0.06	0.47	0.54	0.86	2.53	
Total for Field Operations			39.33	90.02	8.22	21.37	49.10	48.72	256.76	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
11-52-0	Fertilizer	1	100%	100 pound	0.41	41.00
Seeder/Packer	Rental	4	100%	1 acre	15.00	15.00
Alfalfa w/Inoculant	Seed	4	100%	12 pound	6.00	72.00
Brox 2EC	Herbicide	5	100%	1 pint	5.63	5.63
Pursuit	Herbicide	5	100%	3 ounce	3.67	11.02
Twine Large Square	Other	9	100%	3.80 ton	1.81	6.86
Mustang Maxx	Insecticide	11	50%	3 ounce	1.48	2.23
Total Materials & Services					153.74	

Total listed costs for Field Operations and Materials and Services 410.50

Interest on Operations Capital \$ 312.68 cash expense @ 5.50% for 6.0 mo. 8.60

Total Operating and Use Related Ownership Costs 419.10

Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests) 25.00

Real Estate Opportunity[^] Pivot (State) \$ 6,610 per acre @ 3.00% 198.30

Real Estate Taxes \$ 6,610 per acre @ 1.25% 82.63

Total Cost per Acre Including Overhead 725.03

Cash Cost per ton ^{^Ownership and RE Opportunity not included in cash costs.} 112.87

Cost of production per ton 190.80

**2022 Budget 7-Alfalfa, Roundup Ready®, Large Square Bales, Conventional Tillage, Establish Spring Seed, 4 ton Yield
Pivot Irrigated Diesel, 800 GPM 35 PSI, 12 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.97	0.99	0.33	0.00	2.79	0.00	6.08	
2 Disk	1		2.52	2.46	0.12	1.43	9.40	1.29	17.22	
3 Field Cultivation	1		1.83	1.77	0.28	1.59	2.36	1.80	9.63	
4 Seeder/Packer	1		3.75	1.74	0.52	3.73	4.43	3.24	17.41	
5 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
6 Pivot D 125' Lift	12	ai	10.42	72.21	4.12	8.00	7.81	11.39	113.95	
7 Swath/Condition Hay	2		5.00	3.24	0.78	2.39	4.57	1.56	17.54	
8 Turn Windrows	0.5		1.04	0.28	0.17	0.09	1.48	0.24	3.30	
9 Bale Large Square	4	ton	6.47	4.72	0.97	2.58	8.33	27.68	50.75	
10 Load Large Square	4	ton	5.50	2.59	0.83	0.29	7.08	0.33	16.62	
11 Spray Insecticide	0.5		0.47	0.13	0.06	0.47	0.54	0.86	2.53	
Total for Field Operations			39.92	90.39	8.31	21.52	49.86	50.11	260.11	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
11-52-0 Fertilizer	1	100%	100 pound	0.41	41.00	
Seeder/Packer Rental	4	100%	1 acre	15.00	15.00	
Alfalfa RR w/Inoculant Seed	4	100%	12 pound	9.00	108.00	
Roundup PowerMax Herbicide	5	100%	32 ounce	0.44	14.00	
Brox 2EC Herbicide	5	100%	1 pint	5.63	5.63	
21-0-0-24S Additive	5	100%	1.7 pound	0.45	0.77	
Twine Large Square Other	9	100%	4 ton	1.81	7.22	
Mustang Maxx Insecticide	11	50%	3 ounce	1.48	2.23	
Total Materials & Services					193.85	

Total listed costs for Field Operations and Materials and Services	453.96
Interest on Operations Capital \$ 353.99 cash expense @ 5.50% for 6.0 mo.	9.73
Total Operating and Use Related Ownership Costs	463.69

Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)	25.00
Real Estate Opportunity [^] Pivot (State)	\$ 6,610 per acre @ 3.00%
Real Estate Taxes	\$ 6,610 per acre @ 1.25%
Total Cost per Acre Including Overhead	769.62

Cash Cost per ton	[^] Ownership and RE Opportunity not included in cash costs.	117.84
Cost of production per ton		192.41

2022 Budget 8-Alfalfa, Large Round Bales, Panhandle, Conventional Tillage, Fall Seeded with Subsequent Year Production, 2.5 ton Yield
Gravity Irrigated, fed by canal, 18 acre/inches

	Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Disk	1		2.52	2.46	0.12	1.43	9.40	1.29	17.22	
2	Spread Fertilizer	1		1.97	0.99	0.33	0.00	2.79	0.00	6.08	
3	Drill	1		2.20	1.29	0.33	4.64	2.83	1.58	12.87	
4	Roll	1		2.08	1.48	0.34	0.00	2.95	0.00	6.85	
5	Spray Insecticide	0.2		0.19	0.05	0.03	0.19	0.21	0.34	1.01	
6	Corrugate	1		3.92	2.03	0.59	1.99	5.04	11.11	24.68	
7	Swath/Condition Hay	2		5.00	3.24	0.78	2.39	4.57	1.56	17.54	
8	Turn Windrows	0.5		1.04	0.28	0.17	0.09	1.48	0.24	3.30	
9	Bale Large Round	2.5	ton	5.73	1.94	0.86	2.69	7.38	3.59	22.19	
10	Move Large Round	2.5	ton	3.27	1.54	0.49	0.00	4.22	0.21	9.73	
11	Ditch Irrigation	18	ai	25.00	0.00	2.06	0.00	4.61	0.00	31.67	
12	Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
Total for Field Operations				53.87	15.56	6.23	14.37	46.55	21.64	158.22	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Alfalfa w/Inoculant	Seed	3	100%	12 pound	6.00	72.00	
Oats	Seed	3	100%	0.5 bushel	11.00	5.50	
Mustang Maxx	Insecticide	5	20%	3 ounce	1.48	0.89	
Twine Large Round	Other	9	100%	2.5 ton	0.91	2.27	
Irrigation District O&M Charge	Other	11	100%	1 acre	35.00	35.00	
Brox 2EC	Herbicide	12	100%	1 pint	5.63	5.63	
Raptor	Herbicide	12	100%	4 ounce	4.77	19.06	
Crop Oil Concentrate	Additive	12	100%	1.6 pint	1.88	3.00	
UAN	Additive	12	100%	2 pint	0.32	0.64	
Total Materials & Services						184.99	

Total listed costs for Field Operations and Materials and Services		343.21
Interest on Operations Capital \$ 275.02 cash expense @ 5.50% for 6.0 mo.		7.56
Total Operating and Use Related Ownership Costs		350.77

Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)		25.00
Real Estate Opportunity [^] Gravity (Panhandle)	\$ 2,135 per acre @ 3.00%	64.05
Real Estate Taxes	\$ 2,135 per acre @ 1.25%	26.69
Total Cost per Acre Including Overhead		466.51

Cash Cost per ton	[^] Ownership and RE Opportunity not included in cash costs.	133.71
Cost of production per ton		186.61

**2022 Budget 9-Alfalfa, Large Round Bales, 4.4 ton Yield
Dryland**

Field Operations		Times or Qty	Labor @ Unit \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership^		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1	Spread Fertilizer	1	1.97	0.99	0.33	0.00	2.79	0.00	6.08	
2	Swath/Condition Hay	4	10.00	6.49	1.55	4.78	9.14	3.11	35.07	
3	Turn Windrows	1	2.08	0.57	0.34	0.17	2.95	0.47	6.58	
4	Double Windrows	3	4.13	1.02	0.62	0.26	5.31	1.78	13.12	
5	Bale Large Round	4.4 ton	10.08	3.42	1.52	4.74	12.99	6.33	39.08	
6	Move Large Round	4.4 ton	5.76	2.72	0.87	0.00	7.42	0.37	17.14	
7	Spray Insecticide	0.25	0.24	0.06	0.03	0.24	0.27	0.43	1.27	
Total for Field Operations			34.26	15.27	5.26	10.19	40.87	12.49	118.34	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
11-52-0	Fertilizer	1	100%	50 pound	0.41	20.50	
Twine Large Round	Other	5	100%	4.4 ton	0.91	4.00	
Mustang Maxx	Insecticide	7	25%	3 ounce	1.48	1.11	
Total Materials & Services						25.61	

Total listed costs for Field Operations and Materials and Services		143.95
Interest on Operations Capital \$ 90.59 cash expense @ 5.50% for 6.0 mo.		2.49
Total Operating and Use Related Ownership Costs		146.44
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)		25.00
Real Estate Opportunity^ Dryland (State) \$ 3,380 per acre @ 3.00%		101.40
Real Estate Taxes \$ 3,380 per acre @ 1.25%		42.25
Total Cost per Acre Including Overhead		315.09
Cash Cost per ton	<i>^Ownership and RE Opportunity not included in cash costs.</i>	36.44
Cost of production per ton		71.61

**2022 Budget 10-Alfalfa, Large and Small Square Bales, 6.7 ton Yield
Pivot Irrigated Electric, 800 GPM 35 PSI, 16 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.97	0.99	0.33	0.00	2.79	0.00	6.08	
2 Swath/Condition Hay	4		10.00	6.49	1.55	4.78	9.14	3.11	35.07	
3 Turn Windrows	1		2.08	0.57	0.34	0.17	2.95	0.47	6.58	
4 Double Windrows	4		5.50	1.37	0.83	0.35	7.08	2.37	17.50	
5 Bale Large Square	4.5	ton	7.23	5.27	1.09	2.88	9.31	30.91	56.69	
6 Load Large Square	Custom	ton								
7 Bale Small Square	2.2	ton	15.35	6.34	2.31	11.23	19.78	2.60	57.61	
8 Load Small Square	2.2	ton	5.58	1.45	0.92	0.31	7.91	0.45	16.62	
9 Pivot E 125' Lift	16	ai	13.89	42.47	4.68	8.00	8.20	15.19	92.43	
10 Spray Herbicide	0.25		0.24	0.06	0.03	0.24	0.27	0.43	1.27	
11 Spray Insecticide	0.25		0.24	0.06	0.03	0.24	0.27	0.43	1.27	
Total for Field Operations			62.08	65.07	12.11	28.20	67.70	55.96	291.12	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							11-52-0
Twine Large Square	Other	5	100%	4.467 ton	1.81	8.07	
Load Large Square Bales	Custom	6	100%	4.467 ton	2.94	13.12	
Twine Small Square	Other	7	100%	2.233 ton	2.33	5.21	
Electricity Fixed	Other	9	100%	1 acre	40.00	40.00	
Brox 2EC	Herbicide	10	25%	1 pint	5.63	1.41	
Pursuit	Herbicide	10	25%	3 ounce	3.67	2.75	
Crop Oil Concentrate	Additive	10	25%	1.6 pint	1.88	0.75	
UAN	Additive	10	25%	2 pint	0.32	0.16	
Mustang Maxx	Insecticide	11	25%	3 ounce	1.48	1.11	
Total Materials & Services						103.33	

Total listed costs for Field Operations and Materials and Services						394.45	
Interest on Operations Capital \$ 270.79	cash expense @	5.50%	for 6.0 mo.			7.45	
Total Operating and Use Related Ownership Costs						401.90	
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)						25.00	
Real Estate Opportunity [^]	Pivot (State)	\$ 6,610	per acre @	3.00%		198.30	
Real Estate Taxes		\$ 6,610	per acre @	1.25%		82.63	
Total Cost per Acre Including Overhead						707.83	
Cash Cost per ton	[^] Ownership and RE Opportunity not included in cash costs.					57.59	
Cost of production per ton						105.65	

**2022 Budget 11-Alfalfa, Roundup Ready®, Large and Small Square Bales, 6.8 ton Yield
Pivot Irrigated Electric, 800 GPM 35 PSI, 16 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.97	0.99	0.33	0.00	2.79	0.00	6.08	
2 Swath/Condition Hay	4		10.00	6.49	1.55	4.78	9.14	3.11	35.07	
3 Turn Windrows	1		2.08	0.57	0.34	0.17	2.95	0.47	6.58	
4 Double Windrows	4		5.50	1.37	0.83	0.35	7.08	2.37	17.50	
5 Bale Large Square	4.5	ton	7.33	5.35	1.10	2.92	9.45	31.37	57.52	
6 Load Large Square	Custom	ton								
7 Bale Small Square	2.3	ton	15.58	6.43	2.34	11.40	20.07	2.64	58.46	
8 Load Small Square	2.3	ton	5.67	1.47	0.94	0.32	8.03	0.46	16.89	
9 Pivot E 125' Lift	16	ai	13.89	42.47	4.68	8.00	8.20	15.19	92.43	
10 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
11 Spray Insecticide	0.25		0.24	0.06	0.03	0.24	0.27	0.43	1.27	
Total for Field Operations			63.21	65.46	12.27	29.13	69.05	57.76	296.88	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							11-52-0
Twine Large Square	Other	5	100%	4.53 ton	1.81	8.19	
Load Large Square Bales	Custom	6	100%	4.53 ton	2.94	13.31	
Twine Small Square	Other	7	100%	2.27 ton	2.33	5.29	
Electricity Fixed	Other	9	100%	1 acre	40.00	40.00	
Brox 2EC	Herbicide	10	100%	1 pint	5.63	5.63	
Roundup PowerMax	Herbicide	10	100%	32 ounce	0.44	14.00	
21-0-0-24S	Additive	10	100%	1.7 pound	0.45	0.77	
Mustang Maxx	Insecticide	11	25%	3 ounce	1.48	1.11	
Total Materials & Services						121.10	

Total listed costs for Field Operations and Materials and Services						417.98
Interest on Operations Capital \$ 291.17	cash expense @	5.50%	for 6.0 mo.			8.01
Total Operating and Use Related Ownership Costs						425.99
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)						25.00
Real Estate Opportunity [^]	Pivot (State)	\$ 6,610	per acre @	3.00%		198.30
Real Estate Taxes		\$ 6,610	per acre @	1.25%		82.63
Total Cost per Acre Including Overhead						731.92
Cash Cost per ton	[^] Ownership and RE Opportunity not included in cash costs.					59.82
Cost of production per ton						107.63

**2022 Budget 12-Alfalfa, Panhandle, Large and Small Square Bales, 6.6 ton Yield
Pivot Irrigated Electric, 800 GPM 35 PSI, 16 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.97	0.99	0.33	0.00	2.79	0.00	6.08	
2 Swath/Condition Hay	4		10.00	6.49	1.55	4.78	9.14	3.11	35.07	
3 Bale Large Square	4.4	ton	7.12	5.19	1.07	2.83	9.17	30.45	55.83	
4 Load Large Square	Custom	ton								
5 Bale Small Square	2.2	ton	15.13	6.24	2.28	11.07	19.48	2.56	56.76	
6 Load Small Square	2.2	ton	5.50	1.43	0.91	0.31	7.79	0.44	16.38	
7 Pivot E 125' Lift	16	ai	13.89	42.47	4.68	8.00	8.20	15.19	92.43	
8 Spray Herbicide	0.25		0.24	0.06	0.03	0.24	0.27	0.43	1.27	
9 Spray Insecticide	0.25		0.24	0.06	0.03	0.24	0.27	0.43	1.27	
Total for Field Operations			54.09	62.93	10.88	27.47	57.11	52.61	265.09	

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	40.00	40.00	
Velpar L	Herbicide	8	25%	3 pints	14.38	10.78	
Mustang Maxx	Insecticide	9	25%	3 ounce	1.48	1.11	
Total Materials & Services					108.64		

Total listed costs for Field Operations and Materials and Services					373.73		
Interest on Operations Capital \$ 264.01	cash expense @	5.50%	for 6.0 mo.		7.26		
Total Operating and Use Related Ownership Costs					380.99		
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)					25.00		
Real Estate Opportunity [^]	Pivot (Panhandle)	\$ 2,565	per acre @	3.00%	76.95		
Real Estate Taxes		\$ 2,565	per acre @	1.25%	32.06		
Total Cost per Acre Including Overhead					515.00		
Cash Cost per ton	[^] Ownership and RE Opportunity not included in cash costs.					49.75	
Cost of production per ton					78.03		

**2022 Budget 13-Alfalfa, Large Square Bales, 6.6 ton Yield
Gravity Irrigated, fed by canal, 22 acre/inches**

	Field Operations	Times or Qty	Labor @ Unit	\$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Spread Fertilizer	1		1.97	0.99	0.33	0.00	2.79	0.00	6.08	
2	Swath/Condition Hay	4		10.00	6.49	1.55	4.78	9.14	3.11	35.07	
3	Turn Windrows	1		2.08	0.57	0.34	0.17	2.95	0.47	6.58	
4	Double Windrows	4		5.50	1.37	0.83	0.35	7.08	2.37	17.50	
5	Bale Large Square	6.6		10.68	7.79	1.61	4.25	13.75	45.67	83.75	
6	Load Large Square	Custom									
7	Corrugate	1		3.92	2.03	0.59	1.99	5.04	11.11	24.68	
8	Ditch Irrigation	22	ai	30.56						30.56	
9	Spray Herbicide	0.25		0.24	0.06	0.03	0.24	0.27	0.43	1.27	
10	Spray Insecticide	0.25		0.24	0.06	0.03	0.24	0.27	0.43	1.27	
Total for Field Operations				65.19	19.36	5.31	12.02	41.29	63.59	206.76	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Twine Large Square	Other	5	100%	6.6 ton	1.81	11.92	
Load Large Square Bales	Custom	6	100%	6.6 ton	2.94	19.38	
Irrigation District O&M Charge	Other	8	100%	1 acre	35.00	35.00	
Brox 2EC	Herbicide	9	25%	1 pint	5.63	1.41	
Pursuit	Herbicide	9	25%	3 ounce	3.67	2.75	
Crop Oil Concentrate	Additive	9	25%	1.6 pint	1.88	0.75	
UAN	Additive	9	25%	2 pint	0.32	0.16	
Mustang Maxx	Insecticide	10	25%	3 ounce	1.48	1.11	
	Crop Insurance				N/A	0.00	
Total Materials & Services						103.23	

Total listed costs for Field Operations and Materials and Services		309.99
Interest on Operations Capital \$ 205.11 cash expense @ 5.50% for 6.0 mo.		5.64
Total Operating and Use Related Ownership Costs		315.63
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)		25.00
Real Estate Opportunity [^] Gravity (State)	\$ 6,095 per acre @ 3.00%	182.85
Real Estate Taxes	\$ 6,095 per acre @ 1.25%	76.19
Total Cost per Acre Including Overhead		599.67
Cash Cost per ton	[^] Ownership and RE Opportunity not included in cash costs.	47.26
Cost of production per ton		90.86

**2022 Budget 14-Alfalfa, Roundup Ready®, Large Square Bales, 6.8 ton Yield
Gravity Irrigated, fed by canal, 14 acre/inches**

	Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Spread Fertilizer	1		1.97	0.99	0.33	0.00	2.79	0.00	6.08	
2	Swath/Condition Hay	4		10.00	6.49	1.55	4.78	9.14	3.11	35.07	
3	Turn Windrows	1		2.08	0.57	0.34	0.17	2.95	0.47	6.58	
4	Double Windrows	4		5.50	1.37	0.83	0.35	7.08	2.37	17.50	
5	Bale Large Square	6.8		11.00	8.02	1.66	4.38	14.17	47.06	86.29	
6	Load Large Square	Custom									
7	Corrugate	1		3.92	2.03	0.59	1.99	5.04	11.11	24.68	
8	Ditch Irrigation	14	ai	19.44						19.44	
9	Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
10	Spray Insecticide	0.25		0.24	0.06	0.03	0.24	0.27	0.43	1.27	
Total for Field Operations				55.10	19.79	5.46	12.86	42.51	66.27	201.99	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Twine Large Square	Other	5	100%	6.8 ton	1.81	12.28	
Load Large Square Bales	Custom	6	100%	6.8 ton	2.94	19.97	
Irrigation District O&M Charge	Other	8	100%	1 acre	35.00	35.00	
Brox 2EC	Herbicide	9	100%	1 pint	5.63	5.63	
Roundup PowerMax	Herbicide	9	100%	32 ounce	0.44	14.00	
21-0-0-24S	Additive	9	100%	1.7 pound	0.45	0.77	
Mustang Maxx	Insecticide	10	25%	3 ounce	1.48	1.11	
	Crop Insurance				N/A	0.00	
Total Materials & Services						121.56	

Total listed costs for Field Operations and Materials and Services		323.55
Interest on Operations Capital \$ 214.77 cash expense @ 5.50% for 6.0 mo.		5.91
Total Operating and Use Related Ownership Costs		329.46

Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)		25.00
Real Estate Opportunity [^] Gravity (State)	\$ 6,095 per acre @ 3.00%	182.85
Real Estate Taxes	\$ 6,095 per acre @ 1.25%	76.19
Total Cost per Acre Including Overhead		613.50

Cash Cost per ton	[^] Ownership and RE Opportunity not included in cash costs.	47.33
Cost of production per ton		90.22

**2022 Budget 15-Corn, Conventional Tillage, Continuous, 100 bushel Yield
Dryland**

	Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Disk	1		2.52	2.46	0.12	1.43	9.40	1.29	17.22	
2	Anhydrous Application	1		2.29	1.72	0.34	0.58	2.95	3.63	11.51	
3	Field Cultivation	1		1.83	1.77	0.28	1.59	2.36	1.80	9.63	
4	Plant	1		3.00	0.89	0.41	5.28	3.54	3.13	16.25	
5	Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
6	Row Crop Cultivation	1		2.50	1.03	0.38	1.06	3.22	3.61	11.80	
7	Row Crop Cultivation	0.25		0.63	0.26	0.09	0.26	0.81	0.90	2.95	
8	Spray Herbicide	Custom									
9	Spray Insecticide	Custom									
10	Combine Dryland Corn	1		3.44	4.26	8.65	1.17	6.91	4.49	28.92	
11	Cart	100	bu	1.79	0.63	0.27	1.82	2.30	1.07	7.88	
12	Truck	Custom									
13	Dry Grain	Custom									
Total for Field Operations				18.95	13.28	10.67	14.14	32.56	21.64	111.24	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Corn	Seed	4	100%	13.9 k seed	2.88	39.96	
Capture LFR	Insecticide	4	100%	6.6 ounce	2.81	18.56	
10-34-0	Fertilizer	4	100%	6 gallon	3.75	22.50	
Balance Flexx	Herbicide	5	100%	4 ounce	5.00	20.00	
Atrazine 90 DF	Herbicide	5	100%	1.6 pound	4.50	7.20	
Spray	Custom	8	50%	1 acre	7.50	3.75	
Armezon Pro	Herbicide	8	50%	14 ounce	1.33	9.30	
NIS	Additive	8	50%	6 ounce	0.16	0.47	
UAN	Additive	8	50%	2 pint	0.32	0.32	
Spray	Custom	9	30%	1 acre	7.50	2.25	
Brigade 2EC	Insecticide	9	10%	5.12 ounce	1.17	0.60	
Mustang Maxx	Insecticide	9	20%	2 ounce	1.48	0.59	
Haul Grain Bushels	Custom	12	100%	100 bushel	0.12	12.00	
Dry 2 Points Removed	Custom	13	10%	100 bushel	0.08	0.80	
Scouting Dryland Corn	Scouting		100%	1 acre	8.00	8.00	
	Crop Insurance				31.00	31.00	
Total Materials & Services						225.90	

Total listed costs for Field Operations and Materials and Services		337.14
Interest on Operations Capital \$ 282.94 cash expense @ 5.50% for 6.0 mo.		7.78
Total Operating and Use Related Ownership Costs		344.92
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)		25.00
Real Estate Opportunity [^] Dryland (State)	\$ 3,380 per acre @ 3.00%	101.40
Real Estate Taxes	\$ 3,380 per acre @ 1.25%	42.25
Total Cost per Acre Including Overhead		513.57
Cash Cost per bushel	[^] Ownership and RE Opportunity not included in cash costs.	3.58
Cost of production per bushel		5.14

2022 Budget 16-Corn, Conventional Tillage, in Corn/Soybean Rotation, Conventional Seed (Non Bt), 110 bushel Yield Dryland

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Anhydrous Application	1		2.29	1.72	0.34	0.58	2.95	3.63	11.51	
2 Field Cultivation	1		1.83	1.77	0.28	1.59	2.36	1.80	9.63	
3 Plant	1		3.00	0.89	0.41	5.28	3.54	3.13	16.25	
4 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
5 Row Crop Cultivation	1		2.50	1.03	0.38	1.06	3.22	3.61	11.80	
6 Row Crop Cultivation	0.25		0.63	0.26	0.09	0.26	0.81	0.90	2.95	
7 Spray Herbicide	Custom									
8 Spray Insecticide	Custom									
9 Combine Dryland Corn	1		3.44	4.26	8.65	1.17	6.91	4.49	28.92	
10 Cart	110	bu	1.96	0.69	0.30	2.00	2.53	1.18	8.66	
11 Truck	Custom									
12 Dry Grain	Custom									
Total for Field Operations			16.60	10.88	10.58	12.89	23.39	20.46	94.80	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							82-0-0
Corn	Seed	3	100%	15.3 k seed	2.88	43.99	
10-34-0	Fertilizer	3	100%	6 gallon	3.75	22.50	
Lumax EZ	Herbicide	4	100%	2.7 quart	13.75	37.13	
Spray	Custom	7	50%	1 acre	7.50	3.75	
Laudis	Herbicide	7	50%	3 ounce	4.77	7.15	
MSO	Additive	7	50%	19.2 ounce	0.20	1.88	
UAN	Additive	7	50%	2 pint	0.32	0.32	
Spray	Custom	8	30%	1 acre	7.50	2.25	
Brigade 2EC	Insecticide	8	10%	5.12 ounce	1.17	0.60	
Mustang Maxx	Insecticide	8	20%	2 ounce	1.48	0.59	
Haul Grain Bushels	Custom	11	100%	110 bushel	0.12	13.20	
Dry 2 Points Removed	Custom	12	10%	110 bushel	0.08	0.88	
Scouting Dryland Corn	Scouting		100%	1 acre	8.00	8.00	
	Crop Insurance				31.00	31.00	
Total Materials & Services						202.94	

Total listed costs for Field Operations and Materials and Services	297.74
Interest on Operations Capital \$ 253.89 cash expense @ 5.50% for 6.0 mo.	6.98
Total Operating and Use Related Ownership Costs	304.72

Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)	25.00
Real Estate Opportunity [^] Dryland (State)	\$ 3,380 per acre @ 3.00%
Real Estate Taxes	\$ 3,380 per acre @ 1.25%
Total Cost per Acre Including Overhead	473.37

Cash Cost per bushel	[^] Ownership and RE Opportunity not included in cash costs.	2.98
Cost of production per bushel		4.30

**2022 Budget 17-Corn, Eastern Nebraska, Conventional Tillage, Continuous, 160 bushel Yield
Dryland**

	Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Disk	1		2.52	2.46	0.12	1.43	9.40	1.29	17.22	
2	Anhydrous Application	1		2.29	1.72	0.34	0.58	2.95	3.63	11.51	
3	Field Cultivation	1		1.83	1.77	0.28	1.59	2.36	1.80	9.63	
4	Plant	1		3.00	0.89	0.41	5.28	3.54	3.13	16.25	
5	Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
6	Spray Herbicide	0.5		0.47	0.13	0.06	0.47	0.54	0.86	2.53	
7	Spray Insecticide	Custom									
8	Combine Dryland Corn	1		3.44	4.26	8.65	1.17	6.91	4.49	28.92	
9	Cart	160	bu	2.86	1.01	0.43	2.91	3.68	1.71	12.60	
10	Truck	Custom									
11	Dry Grain	Custom									
Total for Field Operations				17.36	12.50	10.42	14.38	30.45	18.63	103.74	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Corn	Seed	4	100%	22.2 k seed	2.88	63.83	
Capture LFR	Insecticide	4	100%	6.6 ounce	2.81	18.56	
10-34-0	Fertilizer	4	100%	6 gallon	3.75	22.50	
Acuron	Herbicide	5	100%	2.5 quart	13.75	34.38	
Status	Herbicide	6	50%	5 ounce	4.70	11.75	
NIS	Additive	6	50%	6 ounce	0.16	0.47	
UAN	Additive	6	50%	2 pint	0.32	0.32	
Spray	Custom	7	30%	1 acre	7.50	2.25	
Brigade 2EC	Insecticide	7	10%	5.12 ounce	1.17	0.60	
Mustang Maxx	Insecticide	7	20%	2 ounce	1.48	0.59	
Haul Grain Bushels	Custom	10	100%	160 bushel	0.12	19.20	
Dry 2 Points Removed	Custom	11	20%	160 bushel	0.08	2.56	
Scouting Dryland Corn	Scouting		100%	1 acre	8.00	8.00	
	Crop Insurance				7.00	7.00	
Total Materials & Services						270.31	

Total listed costs for Field Operations and Materials and Services							374.05
Interest on Operations Capital \$ 324.97 cash expense @ 5.50% for 6.0 mo.							8.94
Total Operating and Use Related Ownership Costs							382.99
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)							25.00
Real Estate Opportunity [^] Dryland (Eastern) \$ 6,465 per acre @ 3.00%							193.95
Real Estate Taxes \$ 6,465 per acre @ 1.25%							80.81
Total Cost per Acre Including Overhead							682.75
Cash Cost per bushel ^{^Ownership and RE Opportunity not included in cash costs.}							2.75
Cost of production per bushel							4.27

2022 Budget 18-Corn, Eastern Nebraska, Conventional Tillage, in Corn/Soybean Rotation, 170 bushel Yield Dryland

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership^		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Anhydrous Application	1		2.29	1.72	0.34	0.58	2.95	3.63	11.51	
2 Field Cultivation	1		1.83	1.77	0.28	1.59	2.36	1.80	9.63	
3 Plant	1		3.00	0.89	0.41	5.28	3.54	3.13	16.25	
4 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
5 Spray Herbicide	0.5		0.47	0.13	0.06	0.47	0.54	0.86	2.53	
6 Spray Insecticide	Custom									
7 Combine Dryland Corn	1		3.44	4.26	8.65	1.17	6.91	4.49	28.92	
8 Cart	170	bu	3.04	1.07	0.46	3.09	3.91	1.82	13.39	
9 Truck	Custom									
10 Dry Grain	Custom									
Total for Field Operations			15.02	10.10	10.33	13.13	21.28	17.45	87.31	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							82-0-0
Corn	Seed	3	100%	23.6 k seed	2.88	67.85	
10-34-0	Fertilizer	3	100%	6 gallon	3.75	22.50	
Acuron	Herbicide	4	100%	2.5 quart	13.75	34.38	
Armezon Pro	Herbicide	5	50%	14 ounce	1.33	9.30	
NIS	Additive	5	50%	6 ounce	0.16	0.47	
UAN	Additive	5	50%	2 pint	0.32	0.32	
Spray	Custom	6	30%	1 acre	7.50	2.25	
Brigade 2EC	Insecticide	6	10%	5.12 ounce	1.17	0.60	
Mustang Maxx	Insecticide	6	20%	2 ounce	1.48	0.59	
Haul Grain Bushels	Custom	9	100%	170 bushel	0.12	20.40	
Dry 2 Points Removed	Custom	10	20%	170 bushel	0.08	2.72	
Scouting Dryland Corn	Scouting		100%	1 acre	8.00	8.00	
	Crop Insurance				7.00	7.00	
Total Materials & Services						238.48	

Total listed costs for Field Operations and Materials and Services		325.79
Interest on Operations Capital \$ 287.06 cash expense @ 5.50% for 6.0 mo.		7.89
Total Operating and Use Related Ownership Costs		333.68
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)		25.00
Real Estate Opportunity^ Dryland (Eastern)	\$ 6,465 per acre @ 3.00%	193.95
Real Estate Taxes	\$ 6,465 per acre @ 1.25%	80.81
Total Cost per Acre Including Overhead		633.44
Cash Cost per bushel	<i>^Ownership and RE Opportunity not included in cash costs.</i>	2.36
Cost of production per bushel		3.73

**2022 Budget 19-Corn, Bt, ECB, RR2, LL, & RIB, No Till, Continuous, 135 bushel Yield
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Burndown Herbicide	0.5		0.47	0.13	0.06	0.47	0.54	0.86	2.53	
2 Spray Fertilizer and Herbicide	1		0.95	0.26	0.13	0.25	1.07	4.31	6.97	
3 Plant No-Till	1		3.00	1.10	0.41	7.61	3.54	4.52	20.18	
4 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
5 Spray Insecticide	Custom									
6 Combine Dryland Corn	1		3.44	4.26	8.65	1.17	6.91	4.49	28.92	
7 Cart	135	bu	2.41	0.85	0.36	2.46	3.11	1.45	10.64	
8 Truck	Custom									
9 Dry Grain	Custom									
Total for Field Operations			11.22	6.86	9.74	12.91	16.24	17.35	74.32	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate 5# w/Surfactant
2,4-D Ester LV4	Herbicide	1	50%	1 pint	2.63	1.31		
21-0-0-24S	Additive	1	50%	1.7 pound	0.45	0.38		
32-0-0	Fertilizer	2	100%	120 lbs N	0.72	86.40		
Acuron	Herbicide	2	100%	2.5 quart	13.75	34.38		
Corn Bt, ECB, RW, RR2, LL, & RIB	Seed	3	100%	18.7 k seed	3.63	67.79		
10-34-0-1Zn	Fertilizer	3	100%	6 gallon	3.85	23.10		
Glyphosate 5# w/Surfactant	Herbicide	4	100%	32 ounce	0.35	11.25		
21-0-0-24S	Additive	4	100%	1.7 pound	0.45	0.77		
Laudis	Herbicide	4	50%	3 ounce	4.77	7.15		
Spray	Custom	5	30%	1 acre	7.50	2.25		
* Brigade 2EC	Insecticide	5	10%	5.12 ounce	1.17	0.60		
* Mustang Maxx	Insecticide	5	20%	2 ounce	1.48	0.59		
Haul Grain Bushels	Custom	8	100%	135 bushel	0.12	16.20		
Dry 2 Points Removed	Custom	9	10%	135 bushel	0.08	1.08		
Scouting Dryland Corn	Scouting		100%	1 acre	8.00	8.00		
Crop Insurance						34.00	34.00	
Total Materials & Services						300.88		

*Insecticide for Spider mites and Western Bean Cutworm respectively.

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 341.61 cash expense @ 5.50% for 6.0 mo.

Total Operating and Use Related Ownership Costs

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

Real Estate Opportunity[^] Dryland (State) \$ 3,380 per acre @ 3.00%

Real Estate Taxes \$ 3,380 per acre @ 1.25%

Total Cost per Acre Including Overhead

Cash Cost per bushel

[^]Ownership and RE Opportunity not included in cash costs.

Cost of production per bushel

2022 Budget 20-Corn, Bt, ECB, RR2, LL, & RIB, Eastern Nebraska, No Till, Continuous, 180 bushel Yield Dryland

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1	Spray Burndown Herbicide	0.5	0.47	0.13	0.06	0.47	0.54	0.86	2.53	
2	Spray Fertilizer and Herbicide	1	0.95	0.26	0.13	0.25	1.07	4.31	6.97	
3	Plant No-Till	1	3.00	1.10	0.41	7.61	3.54	4.52	20.18	
4	Spray Herbicide	1	0.95	0.26	0.13	0.95	1.07	1.72	5.08	
5	Spray Insecticide	Custom								
6	Combine Dryland Corn	1	3.44	4.26	8.65	1.17	6.91	4.49	28.92	
7	Cart	180 bu	3.21	1.14	0.48	3.27	4.14	1.93	14.17	
8	Truck	Custom								
9	Dry Grain	Custom								
Total for Field Operations			12.02	7.15	9.86	13.72	17.27	17.83	77.85	

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	2.63	1.31	
21-0-0-24S	Additive	1	50%	1.7 pound	0.45	0.38	
32-0-0	Fertilizer	2	100%	160 lbs N	0.72	115.20	
Acuron	Herbicide	2	100%	2.5 quart	13.75	34.38	
Corn Bt, ECB, RW, RR2, LL, & RIB	Seed	3	100%	25.0 k seed	3.63	90.63	
10-34-0-1Zn	Fertilizer	3	100%	6 gallon	3.85	23.10	
Glyphosate 5# w/Surfactant	Herbicide	4	100%	32 ounce	0.35	11.25	
21-0-0-24S	Additive	4	100%	1.7 pound	0.45	0.77	
Status	Herbicide	4	50%	5 ounce	4.70	11.75	
Spray	Custom	5	30%	1 acre	7.50	2.25	
* Brigade 2EC	Insecticide	5	10%	5.12 ounce	1.17	0.60	
* Mustang Maxx	Insecticide	5	20%	2 ounce	1.48	0.59	
Haul Grain Bushels	Custom	8	100%	180 bushel	0.12	21.60	
Dry 2 Points Removed	Custom	9	20%	180 bushel	0.08	2.88	
Scouting Dryland Corn	Scouting		100%	1 acre	8.00	8.00	
Crop Insurance					7.00	7.00	
Total Materials & Services						337.32	

*Insecticide for Spider mites and Western Bean Cutworm respectively.

Total listed costs for Field Operations and Materials and Services		415.17
Interest on Operations Capital \$ 380.07 cash expense @ 5.50% for 6.0 mo.		10.45
Total Operating and Use Related Ownership Costs		425.62
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)		25.00
Real Estate Opportunity [^] Dryland (Eastern) \$ 6,465 per acre @ 3.00%		193.95
Real Estate Taxes \$ 6,465 per acre @ 1.25%		80.81
Total Cost per Acre Including Overhead		725.38
Cash Cost per bushel ^{^Ownership and RE Opportunity not included in cash costs.}		2.76
Cost of production per bushel		4.03

**2022 Budget 21-Corn, SmartStax RIB Complete, No Till, Continuous, 140 bushel Yield
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership^		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Burndown Herbicide	0.5		0.47	0.13	0.06	0.47	0.54	0.86	2.53	
2 Spray Fertilizer and Herbicide	1		0.95	0.26	0.13	0.25	1.07	4.31	6.97	
3 Plant No-Till	1		3.00	1.10	0.41	7.61	3.54	4.52	20.18	
4 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
5 Spray Insecticide	Custom									
6 Combine Dryland Corn	1		3.44	4.26	8.65	1.17	6.91	4.49	28.92	
7 Cart	140	bu	2.50	0.88	0.38	2.55	3.22	1.50	11.03	
8 Truck	Custom									
9 Dry Grain	Custom									
Total for Field Operations			11.31	6.89	9.76	13.00	16.35	17.40	74.71	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate 5# w/Surfactant
2,4-D Ester LV4	Herbicide	1	50%	1 pint	2.63	1.31		
21-0-0-24S	Additive	1	50%	1.7 pound	0.45	0.38		
32-0-0	Fertilizer	2	100%	125 lbs N	0.72	90.00		
Acuron	Herbicide	2	100%	2.5 quart	13.75	34.38		
Corn SmartStax RIB Complete	Seed	3	100%	19.4 k seed	3.75	72.75		
10-34-0	Fertilizer	3	100%	6 gallon	3.75	22.50		
Glyphosate 5# w/Surfactant	Herbicide	4	100%	32 ounce	0.35	11.25		
21-0-0-24S	Additive	4	100%	1.7 pound	0.45	0.77		
Armezon Pro	Herbicide	4	50%	14 ounce	1.33	9.30		
Spray	Custom	5	10%	1 acre	7.50	0.75		
Brigade 2EC	Insecticide	5	10%	5.12 ounce	1.17	0.60		
Haul Grain Bushels	Custom	8	100%	140 bushel	0.12	16.80		
Dry 2 Points Removed	Custom	9	10%	140 bushel	0.08	1.12		
Scouting Dryland Corn	Scouting		100%	1 acre	8.00	8.00		
	Crop Insurance				34.00	34.00		
Total Materials & Services							309.54	

Total listed costs for Field Operations and Materials and Services		384.25
Interest on Operations Capital \$ 350.50 cash expense @ 5.50% for 6.0 mo.		9.64
Total Operating and Use Related Ownership Costs		393.89

Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)		25.00
Real Estate Opportunity^ Dryland (State)	\$ 3,380 per acre @ 3.00%	101.40
Real Estate Taxes	\$ 3,380 per acre @ 1.25%	42.25
Total Cost per Acre Including Overhead		562.54

Cash Cost per bushel	<i>^Ownership and RE Opportunity not included in cash costs.</i>	3.05
Cost of production per bushel		4.02

2022 Budget 22-Corn, SmartStax RIB Complete, Eastern Nebraska, No Till, Continuous, 185 bushel Yield Dryland

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Burndown Herbicide	0.5		0.47	0.13	0.06	0.47	0.54	0.86	2.53	
2 Spray Fertilizer and Herbicide	1		0.95	0.26	0.13	0.25	1.07	4.31	6.97	
3 Plant No-Till	1		3.00	1.10	0.41	7.61	3.54	4.52	20.18	
4 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
5 Spray Insecticide	Custom									
6 Combine Dryland Corn	1		3.44	4.26	8.65	1.17	6.91	4.49	28.92	
7 Cart	185	bu	3.30	1.17	0.50	3.36	4.26	1.98	14.57	
8 Truck	Custom									
9 Dry Grain	Custom									
Total for Field Operations			12.11	7.18	9.88	13.81	17.39	17.88	78.25	

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	2.63	1.31	
21-0-0-24S	Additive	1	50%	1.7 pound	0.45	0.38	
32-0-0	Fertilizer	2	100%	170 lbs N	0.72	122.40	
Acuron	Herbicide	2	100%	2.5 quart	13.75	34.38	
Corn SmartStax RIB Complete	Seed	3	100%	25.7 k seed	3.75	96.38	
10-34-0	Fertilizer	3	100%	6 gallon	3.75	22.50	
Glyphosate 5# w/Surfactant	Herbicide	4	100%	32 ounce	0.35	11.25	
21-0-0-24S	Additive	4	100%	1.7 pound	0.45	0.77	
Laudis	Herbicide	4	50%	3 ounce	4.77	7.15	
Spray	Custom	5	10%	1 acre	7.50	0.75	
Brigade 2EC	Insecticide	5	10%	5.12 ounce	1.17	0.60	
Haul Grain Bushels	Custom	8	100%	185 bushel	0.12	22.20	
Dry 2 Points Removed	Custom	9	20%	185 bushel	0.08	2.96	
Scouting Dryland Corn	Scouting		100%	1 acre	8.00	8.00	
	Crop Insurance				7.00	7.00	
Total Materials & Services						343.66	

Total listed costs for Field Operations and Materials and Services		421.91
Interest on Operations Capital \$ 386.64 cash expense @ 5.50% for 6.0 mo.		10.63
Total Operating and Use Related Ownership Costs		432.54
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)		25.00
Real Estate Opportunity [^] Dryland (Eastern)	\$ 6,465 per acre @ 3.00%	193.95
Real Estate Taxes	\$ 6,465 per acre @ 1.25%	80.81
Total Cost per Acre Including Overhead		732.30
Cash Cost per bushel	[^] Ownership and RE Opportunity not included in cash costs.	2.72
Cost of production per bushel		3.96

**2022 Budget 23-Corn, Bt, ECB, & RIB, No Till, after Beans, 145 bushel Yield
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Burndown Herbicide	0.5		0.47	0.13	0.06	0.47	0.54	0.86	2.53	
2 Spray Fertilizer	1		0.95	0.26	0.13	0.25	1.07	4.31	6.97	
3 Plant No-Till	1		3.00	1.10	0.41	7.61	3.54	4.52	20.18	
4 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
5 Spray Herbicide	0.5		0.47	0.13	0.06	0.47	0.54	0.86	2.53	
6 Spray Insecticide	Custom									
7 Combine Dryland Corn	1		3.44	4.26	8.65	1.17	6.91	4.49	28.92	
8 Cart	145	bu	2.59	0.92	0.39	2.64	3.34	1.55	11.43	
9 Truck	Custom									
10 Dry Grain	Custom									
Total for Field Operations			11.87	7.06	9.83	13.56	17.01	18.31	77.64	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate 5# w/Surfactant
2,4-D Ester LV4	Herbicide	1	50%	1.0 pint	2.63	1.31		
21-0-0-24S	Additive	1	50%	1.7 pound	0.45	0.38		
32-0-0	Fertilizer	2	100%	85 lbs N	0.72	61.20		
Corn Bt, ECB, & RIB	Seed	3	100%	20.1 k seed	3.25	65.33		
10-34-0	Fertilizer	3	100%	6 gallon	3.75	22.50		
Acuron	Herbicide	4	100%	2.5 quart	13.75	34.38		
Crop Oil Concentrate	Additive	4	100%	1.6 pint	1.88	3.00		
21-0-0-24S	Additive	4	100%	2.5 pound	0.45	1.13		
Status	Herbicide	5	50%	5 ounce	4.70	11.75		
Roundup PowerMax	Herbicide	5	50%	32 ounce	0.44	7.00		
Crop Oil Concentrate	Additive	5	50%	1 pint	1.88	0.94		
UAN	Additive	5	50%	3 pint	0.32	0.48		
Spray	Custom	6	20%	1 acre	7.50	1.50		
* Brigade 2EC	Insecticide	6	10%	5.12 ounce	1.17	0.60		
* Mustang Maxx	Insecticide	6	10%	2 ounce	1.48	0.30		
Haul Grain Bushels	Custom	9	100%	145 bushel	0.12	17.40		
Dry 2 Points Removed	Custom	10	20%	145 bushel	0.08	2.32		
Scouting Dryland Corn	Scouting		100%	1 acre	8.00	8.00		
	Crop Insurance				35.00	35.00		
Total Materials & Services							280.15	

*Insecticide for Spider mites and Western Bean Cutworm respectively.

Total listed costs for Field Operations and Materials and Services		357.79
Interest on Operations Capital \$ 322.47 cash expense @ 5.50% for 6.0 mo.		8.87
Total Operating and Use Related Ownership Costs		366.66
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)		25.00
Real Estate Opportunity [^] Dryland (State)	\$ 3,380 per acre @ 3.00%	101.40
Real Estate Taxes	\$ 3,380 per acre @ 1.25%	42.25
Total Cost per Acre Including Overhead		535.31
Cash Cost per bushel	[^] Ownership and RE Opportunity not included in cash costs.	2.75
Cost of production per bushel		3.69

**2022 Budget 24-Corn, Bt, ECB, & RIB, Eastern Nebraska, No Till, after Beans, 195 bushel Yield
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Burndown Herbicide	0.5		0.47	0.13	0.06	0.47	0.54	0.86	2.53	
2 Spray Fertilizer	1		0.95	0.26	0.13	0.25	1.07	4.31	6.97	
3 Plant No-Till	1		3.00	1.10	0.41	7.61	3.54	4.52	20.18	
4 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
5 Spray Herbicide	0.5		0.47	0.13	0.06	0.47	0.54	0.86	2.53	
6 Spray Insecticide	Custom									
7 Combine Dryland Corn	1		3.44	4.26	8.65	1.17	6.91	4.49	28.92	
8 Cart	195	bu	3.48	1.23	0.52	3.55	4.49	2.09	15.36	
9 Truck	Custom									
10 Dry Grain	Custom									
Total for Field Operations			12.76	7.37	9.96	14.47	18.16	18.85	81.57	

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	2.63	1.31
21-0-0-24S	Additive	1	50%	1.7 pound	0.45	0.38
32-0-0	Fertilizer	2	100%	130 lbs N	0.72	93.60
Corn Bt, ECB, & RIB	Seed	3	100%	27.1 k seed	3.25	88.08
10-34-0	Fertilizer	3	100%	6 gallon	3.75	22.50
Acuron	Herbicide	4	100%	2.5 quart	13.75	34.38
Crop Oil Concentrate	Additive	4	100%	1.6 pint	1.88	3.00
21-0-0-24S	Additive	4	100%	2.5 pound	0.45	1.13
Armezon Pro	Herbicide	5	50%	14 ounce	1.33	9.30
Atrazine 90 DF	Herbicide	5	50%	0.5 pound	4.50	1.13
Crop Oil Concentrate	Additive	5	50%	1 pint	1.88	0.94
UAN	Additive	5	50%	3 pint	0.32	0.48
Spray	Custom	6	20%	1 acre	7.50	1.50
* Brigade 2EC	Insecticide	6	10%	5.12 ounce	1.17	0.60
* Mustang Maxx	Insecticide	6	10%	2 ounce	1.48	0.30
Haul Grain Bushels	Custom	9	100%	195 bushel	0.12	23.40
Dry 2 Points Removed	Custom	10	20%	195 bushel	0.08	3.12
Scouting Dryland Corn	Scouting		100%	1 acre	8.00	8.00
	Crop Insurance				8.00	8.00
Total Materials & Services						306.78

*Insecticide for Spider mites and Western Bean Cutworm respectively.

Total listed costs for Field Operations and Materials and Services		388.35
Interest on Operations Capital \$ 351.34 cash expense @ 5.50% for 6.0 mo.		9.66
Total Operating and Use Related Ownership Costs		398.01
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)		25.00
Real Estate Opportunity [^] Dryland (Eastern)	\$ 6,465 per acre @ 3.00%	193.95
Real Estate Taxes	\$ 6,465 per acre @ 1.25%	80.81
Total Cost per Acre Including Overhead		697.77
Cash Cost per bushel	[^] Ownership and RE Opportunity not included in cash costs.	2.39
Cost of production per bushel		3.58

**2022 Budget 25-Corn, Bt, ECB, RR2, LL, & RIB, Southwest, Ecofallow, Follows Wheat, Two Crops in Three Years, 130 bushel Yield
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray (Prior Year Stubble)	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
2 Spray (Prior Year Stubble)	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
3 Spray Fertilizer and Herbicide	1		0.95	0.26	0.13	0.25	1.07	4.31	6.97	
4 Plant	1		3.00	0.89	0.41	5.28	3.54	3.13	16.25	
5 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
6 Spray Insecticide	Custom									
7 Combine Dryland Corn	1		3.44	4.26	8.65	1.17	6.91	4.49	28.92	
8 Cart	130	bu	2.32	0.82	0.35	2.36	2.99	1.39	10.23	
9 Truck	Custom									
10 Dry Grain	Custom									
Total for Field Operations			12.56	7.01	9.93	11.91	17.72	18.48	77.61	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							Glyphosate 5# w/Surfactant
21-0-0-24S	Additive	1	100%	1.7 pound	0.45	0.77	
Rugged	Herbicide	1	100%	1 quart	10.00	10.00	
AAtrex 4L	Herbicide	2	100%	1.5 quart	4.00	6.00	
Glyphosate 5# w/Surfactant	Herbicide	2	100%	32 ounce	0.35	11.25	
21-0-0-24S	Additive	2	100%	1.7 pound	0.45	0.77	
32-0-0	Fertilizer	3	100%	120 lbs N	0.72	86.40	
AAtrex 4L	Herbicide	3	100%	0.5 quart	4.00	2.00	
Balance Flexx	Herbicide	3	100%	4 ounce	5.00	20.00	
10-34-0	Fertilizer	4	100%	6 gallon	3.75	22.50	
Corn Bt, ECB, RR2, LL, & RIB	Seed	4	100%	18.0 k seed	3.25	58.50	
Glyphosate 5# w/Surfactant	Herbicide	5	100%	32 ounce	0.35	11.25	
21-0-0-24S	Additive	5	100%	1.7 pound	0.45	0.77	
Laudis	Herbicide	5	50%	3 ounce	4.77	7.15	
Spray	Custom	6	30%	1 acre	7.50	2.25	
* Brigade 2EC	Insecticide	6	10%	5.12 ounce	1.17	0.60	
* Mustang Maxx	Insecticide	6	20%	2 ounce	1.48	0.59	
Haul Grain Bushels	Custom	9	100%	130 bushel	0.12	15.60	
Dry 2 Points Removed	Custom	10	10%	130 bushel	0.08	1.04	
Scouting Dryland Corn	Scouting		100%	1 acre	8.00	8.00	
Crop Insurance					31.00	31.00	
Total Materials & Services						307.69	

*Insecticide for Spider mites and Western Bean Cutworm respectively.

Total listed costs for Field Operations and Materials and Services		385.30
Interest on Operations Capital \$ 349.10 cash expense @ 5.50% for 6.0 mo.		9.60
Total Operating and Use Related Ownership Costs		394.90
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)		25.00
Real Estate Opportunity [^] Dryland (Southwest)	\$ 1,445 per acre @ 3.00%	43.35
Real Estate Taxes	\$ 1,445 per acre @ 1.25%	18.06
Total Cost per Acre Including Overhead		481.31
Cash Cost per bushel	[^] Ownership and RE Opportunity not included in cash costs.	3.09
Cost of production per bushel		3.70

**2022 Budget 26-Corn, Bt, ECB, RW, & RIB, Ridge Till, Continuous, 245 bushel Yield
Gravity Irrigated Diesel, fed by a well, 18 acre/inches**

	Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Spray Burndown Herbicide	0.5		0.47	0.13	0.06	0.47	0.54	0.86	2.53	
2	Anhydrous Application	1		2.29	1.72	0.34	0.58	2.95	3.63	11.51	
3	Ridge Plant and Band Herbicide	1		3.00	1.11	0.41	5.28	3.54	3.27	16.61	
4	Ridge Cultivation	1		2.50	1.73	0.41	2.12	3.54	2.41	12.71	
5	Ridge Cultivate/Ditch	1		2.29	1.44	0.34	0.87	2.95	3.61	11.50	
6	Spray Herbicide	Custom									
7	Spray Insecticide	Custom									
8	Spray	Custom									
9	Pipe D 125' Lift	18	ai	41.67	78.61	1.65	2.40	3.69	3.90	131.92	
10	Combine Irr Corn	1		4.23	5.24	10.65	3.07	8.50	3.91	35.60	
11	Cart	245	bu	4.38	1.55	0.66	4.46	5.64	2.62	19.31	
12	Truck	Custom									
13	Dry Grain	Custom									
14	Chop Stalks	1		2.23	1.51	0.34	1.09	2.87	4.97	13.01	
Total for Field Operations				63.06	93.04	14.86	20.34	34.22	29.18	254.70	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								2,4-D Ester LV4
Glyphosate 5# w/Surfactant	Herbicide	1	50%	32 ounce	0.35	5.63		
21-0-0-24S	Additive	1	50%	1.7 pound	0.45	0.38		
82-0-0	Fertilizer	2	100%	220 lbs N	0.54	118.80		
Corn Bt, ECB, RW, & RIB	Seed	3	100%	34.0 k seed	3.63	123.25		
10-34-0	Fertilizer	3	100%	6 gallon	3.75	22.50		
Bicep II Magnum	Herbicide	3	40%	1.8 quart	10.00	7.20		
Spray	Custom	6	50%	1 acre	7.50	3.75		
Laudis	Herbicide	6	50%	3 ounce	4.77	7.15		
Atrazine 90 DF	Herbicide	6	50%	0.5 pound	4.50	1.13		
Crop Oil Concentrate	Additive	6	50%	1 pint	1.88	0.94		
UAN	Additive	6	50%	3 pint	0.32	0.48		
* Spray	Custom	7	10%	1 acre	7.50	0.75		
* Brigade 2EC	Insecticide	7	10%	5.12 ounce	1.17	0.60		
Spray	Custom	8	10%	1 acre	7.50	0.75		
Miravis Neo	Fungicide	8	10%	10 ounce	1.80	1.80		
Haul Grain Bushels	Custom	12	100%	245 bushel	0.12	29.40		
Dry 2 Points Removed	Custom	13	20%	245 bushel	0.08	3.92		
Scouting Irrigated Corn	Scouting		100%	1 acre	13.00	13.00		
	Crop Insurance				11.00	11.00		
Total Materials & Services							353.74	

*Insecticide for Spider mites and Western Bean Cutworm respectively.

Total listed costs for Field Operations and Materials and Services							608.44	
Interest on Operations Capital \$ 545.04	cash expense @	5.50%	for 6.0 mo.				14.99	
Total Operating and Use Related Ownership Costs							623.43	
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)							25.00	
Real Estate Opportunity [^]	Gravity (State)	\$ 6,095	per acre @	3.00%			182.85	
Real Estate Taxes		\$ 6,095	per acre @	1.25%			76.19	
Total Cost per Acre Including Overhead							907.47	
Cash Cost per bushel	[^] Ownership and RE Opportunity not included in cash costs.						2.70	
Cost of production per bushel							3.70	

**2022 Budget 27-Corn, Bt, ECB, & RIB, Ridge Till, after Beans, 255 bushel Yield
Gravity Irrigated Diesel, fed by a well, 18 acre/inches**

	Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Spray Burndown Herbicide	0.5		0.47	0.13	0.06	0.47	0.54	0.86	2.53	
2	Anhydrous Application	1		2.29	1.72	0.34	0.58	2.95	3.63	11.51	
3	Ridge Plant and Band Herbicide	1		3.00	1.11	0.41	5.28	3.54	3.27	16.61	
4	Ridge Cultivation	1		2.50	1.73	0.41	2.12	3.54	2.41	12.71	
5	Ridge Cultivate/Ditch	1		2.29	1.44	0.34	0.87	2.95	3.61	11.50	
6	Spray Herbicide	Custom									
7	Spray Insecticide	Custom									
8	Spray	Custom									
9	Pipe D 125' Lift	18	ai	41.67	78.61	1.65	2.40	3.69	3.90	131.92	
10	Combine Irr Corn	1		4.23	5.24	10.65	3.07	8.50	3.91	35.60	
11	Cart	255	bu	4.55	1.61	0.69	4.64	5.87	2.73	20.09	
12	Truck	Custom									
13	Dry Grain	Custom									
Total for Field Operations				61.00	91.59	14.55	19.43	31.58	24.32	242.47	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								2,4-D Ester LV4
Glyphosate 5# w/Surfactant	Herbicide	1	50%	32 ounce	0.35	5.63		
21-0-0-24S	Additive	1	50%	1.7 pound	0.45	0.38		
82-0-0	Fertilizer	2	100%	185 lbs N	0.54	99.90		
Corn Bt, ECB, & RIB	Seed	3	100%	35.4 k seed	3.25	115.05		
10-34-0	Fertilizer	3	100%	6 gallon	3.75	22.50		
Bicep II Magnum	Herbicide	3	40%	1.8 quart	10.00	7.20		
Spray	Custom	6	50%	1 acre	7.50	3.75		
Laudis	Herbicide	6	50%	3 ounce	4.77	7.15		
Atrazine 90 DF	Herbicide	6	50%	0.5 pound	4.50	1.13		
Crop Oil Concentrate	Additive	6	50%	1 pint	1.88	0.94		
UAN	Additive	6	50%	3 pint	0.32	0.48		
* Spray	Custom	7	30%	1 acre	7.50	2.25		
* Brigade 2EC	Insecticide	7	10%	5.12 ounce	1.17	0.60		
* Mustang Maxx	Insecticide	7	20%	2 ounce	1.48	0.59		
Spray	Custom	8	10%	1 acre	7.50	0.75		
Revytek	Fungicide	8	10%	8 ounce	3.28	2.63		
Haul Grain Bushels	Custom	12	100%	255 bushel	0.12	30.60		
Dry 2 Points Removed	Custom	13	20%	255 bushel	0.08	4.08		
Scouting Irrigated Corn	Scouting		100%	1 acre	13.00	13.00		
	Crop Insurance				11.00	11.00		
Total Materials & Services							330.92	

*Insecticide for Spider mites and Western Bean Cutworm respectively.

Total listed costs for Field Operations and Materials and Services 573.39

Interest on Operations Capital \$ 517.49 cash expense @ 5.50% for 6.0 mo. 14.23

Total Operating and Use Related Ownership Costs 587.62

Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests) 25.00

Real Estate Opportunity[^] Gravity (State) \$ 6,095 per acre @ 3.00% 182.85

Real Estate Taxes \$ 6,095 per acre @ 1.25% 76.19

Total Cost per Acre Including Overhead 871.66

Cash Cost per bushel [^]Ownership and RE Opportunity not included in cash costs. 2.48

Cost of production per bushel 3.42

**2022 Budget 28-Corn, SmartStax RIB Complete, Ridge Till, Continuous, 250 bushel Yield
Gravity Irrigated Diesel, fed by a well, 18 acre/inches**

	Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Spray Burndown Herbicide	0.5		0.47	0.13	0.06	0.47	0.54	0.86	2.53	
2	Anhydrous Application	1		2.29	1.72	0.34	0.58	2.95	3.63	11.51	
3	Ridge Plant and Band Herbicide	1		3.00	1.11	0.41	5.28	3.54	3.27	16.61	
4	Ridge Cultivation	1		2.50	1.73	0.41	2.12	3.54	2.41	12.71	
5	Ridge Cultivate/Ditch	1		2.29	1.44	0.34	0.87	2.95	3.61	11.50	
6	Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
7	Spray Insecticide	Custom									
8	Spray	Custom									
9	Pipe D 125' Lift	18	ai	41.67	78.61	1.65	2.40	3.69	3.90	131.92	
10	Combine Irr Corn	1		4.23	5.24	10.65	3.07	8.50	3.91	35.60	
11	Cart	250	bu	4.46	1.58	0.67	4.55	5.75	2.68	19.69	
12	Truck	Custom									
13	Dry Grain	Custom									
14	Chop Stalks	1		2.23	1.51	0.34	1.09	2.87	4.97	13.01	
Total for Field Operations				64.09	93.33	15.00	21.38	35.40	30.96	260.16	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								2,4-D Ester LV4
Glyphosate 5# w/Surfactant	Herbicide	1	50%	32 ounce	0.35	5.63		
21-0-0-24S	Additive	1	50%	1.7 pound	0.45	0.38		
82-0-0	Fertilizer	2	100%	225 lbs N	0.54	121.50		
Corn SmartStax RIB Complete	Seed	3	100%	34.7 k seed	3.75	130.13		
10-34-0	Fertilizer	3	100%	6 gallon	3.75	22.50		
Bicep II Magnum	Herbicide	3	40%	1.8 quart	10.00	7.20		
Glyphosate 5# w/Surfactant	Herbicide	6	100%	32 ounce	0.35	11.25		
21-0-0-24S	Additive	6	100%	1.7 pound	0.45	0.77		
Status	Herbicide	6	100%	5 ounce	4.70	23.50		
Spray	Custom	7	10%	1 acre	7.50	0.75		
Brigade 2EC	Insecticide	7	10%	5.12 ounce	1.17	0.60		
Spray	Custom	8	10%	1 acre	7.50	0.75		
Stratego YLD	Fungicide	8	10%	2 ounce	4.69	0.94		
Haul Grain Bushels	Custom	12	100%	250 bushel	0.12	30.00		
Dry 2 Points Removed	Custom	13	10%	250 bushel	0.08	2.00		
Scouting Irrigated Corn	Scouting		100%	1 acre	13.00	13.00		
	Crop Insurance				11.00	11.00		
Total Materials & Services							383.21	

Total listed costs for Field Operations and Materials and Services						643.37		
Interest on Operations Capital \$ 577.01	cash expense @	5.50%	for 6.0 mo.			15.87		
Total Operating and Use Related Ownership Costs						659.24		
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)						25.00		
Real Estate Opportunity [^]	Gravity (State)	\$ 6,095	per acre @	3.00%		182.85		
Real Estate Taxes		\$ 6,095	per acre @	1.25%		76.19		
Total Cost per Acre Including Overhead						943.28		
Cash Cost per bushel	[^] Ownership and RE Opportunity not included in cash costs.						2.78	
Cost of production per bushel						3.77		

2022 Budget 29-Corn, SmartStax RIB Complete, Panhandle, Conventional Tillage, Continuous, 175 bushel Yield Gravity Irrigated, fed by canal, 15 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$25.00/Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership^		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.52	2.46	0.12	1.43	9.40	1.29	17.22	
2 Field Cultivation	1		1.83	1.77	0.28	1.59	2.36	1.80	9.63	
3 Spray Fertilizer and Herbicide	1		0.95	0.26	0.13	0.25	1.07	4.31	6.97	
4 Plant	1		3.00	0.89	0.41	5.28	3.54	3.13	16.25	
5 Spread Fertilizer	1		1.97	0.99	0.33	0.00	2.79	0.00	6.08	
6 Row Crop Cultivation	1		2.50	1.03	0.38	1.06	3.22	3.61	11.80	
7 Ridge Cultivate/Ditch	1		2.29	1.44	0.34	0.87	2.95	3.61	11.50	
8 Spray Insecticide	Custom									
9 Spray	Custom									
10 Ditch Irrigation	15	ai	20.83	0.00	1.72	0.00	3.84	0.00	26.39	
11 Combine Irr Corn	1		4.23	5.24	10.65	3.07	8.50	3.91	35.60	
12 Cart	175	bu	3.13	1.11	0.47	3.18	4.03	1.87	13.79	
13 Truck	Custom									
14 Dry Grain	Custom									
15 Chop Stalks	1		2.23	1.51	0.34	1.09	2.87	4.97	13.01	
Total for Field Operations			45.48	16.70	15.17	17.82	44.57	28.50	168.24	

Materials & Services	Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
			Rate	Unit			
32-0-0	Fertilizer	3	100%	80 lbs N	0.72	57.60	
Balance Flexx	Herbicide	3	100%	4 ounce	5.00	20.00	
Bicep II Magnum	Herbicide	3	100%	2.1 quart	10.00	21.00	
10-34-0	Fertilizer	4	100%	8 gallon	3.75	30.00	
Corn SmartStax RIB Complete	Seed	4	100%	27.2 k seed	3.75	102.00	
32-0-0	Fertilizer	5	100%	80 lbs N	0.72	57.60	
Spray	Custom	8	10%	1 acre	7.50	0.75	
Brigade 2EC	Insecticide	8	10%	5.12 ounce	1.17	0.60	
Spray	Custom	9	10%	1 acre	7.50	0.75	
Lucento	Fungicide	9	10%	3 ounce	4.10	1.23	
Haul Grain Bushels	Custom	13	100%	175 bushel	0.12	21.00	
Dry 2 Points Removed	Custom	14	10%	175 bushel	0.08	1.40	
Irrigation District O&M Charge	Other	10	100%	1 acre	35.00	35.00	
Scouting Irrigated Corn	Scouting		100%	1 acre	13.00	13.00	
	Crop Insurance				18.00	18.00	
Total Materials & Services						379.93	

Total listed costs for Field Operations and Materials and Services 548.17

Interest on Operations Capital \$ 475.10 cash expense @ 5.50% for 6.0 mo. 13.07

Total Operating and Use Related Ownership Costs 561.24

Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests) 25.00

Real Estate Opportunity^ Gravity (Panhandle) \$ 2,135 per acre @ 3.00% 64.05

Real Estate Taxes \$ 2,135 per acre @ 1.25% 26.69

Total Cost per Acre Including Overhead 676.98

Cash Cost per bushel ^Ownership and RE Opportunity not included in cash costs. 3.08

Cost of production per bushel 3.87

**2022 Budget 30-Corn, Bt, ECB, RW, & RIB, No Till, Continuous, 245 bushel Yield
Pivot Irrigated Electric, 800 GPM 35 PSI, 9 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Burndown Herbicide	0.5		0.47	0.13	0.06	0.47	0.54	0.86	2.53	
2 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
3 Plant No-Till	1		3.00	1.10	0.41	7.61	3.54	4.52	20.18	
4 Pivot E 125' Lift w/fertigation	9	ai	10.42	23.89	2.63	8.00	5.00	8.88	58.82	
5 Spray Herbicide	0.5		0.47	0.13	0.06	0.47	0.54	0.86	2.53	
6 Spray Insecticide	Custom									
7 Spray	Custom									
8 Combine Irr Corn	1		4.23	5.24	10.65	3.07	8.50	3.91	35.60	
9 Cart	245	bu	4.38	1.55	0.66	4.46	5.64	2.62	19.31	
10 Truck	Custom									
11 Dry Grain	Custom									
Total for Field Operations			23.92	32.30	14.60	25.03	24.83	23.37	144.05	

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	2.63	1.31
Glyphosate 5# w/Surfactant	Herbicide	1	50%	32 ounce	0.35	5.63
21-0-0-24S	Additive	1	50%	1.7 pound	0.45	0.38
Acuron	Herbicide	2	100%	2.5 quart	13.75	34.38
Atrazine 4L	Herbicide	3	100%	1.0 quart	3.75	3.75
Corn Bt, ECB, RW, & RIB	Seed	3	100%	34.0 k seed	3.63	123.25
10-34-0	Fertilizer	3	100%	6 gallon	3.75	22.50
32-0-0 (Applied by R2)	Fertilizer	4	100%	220 lbs N	0.72	158.40
Electricity Fixed	Other	4	100%	1 acre	40.00	40.00
Status	Herbicide	5	50%	5 ounce	4.70	11.75
Atrazine 90 DF	Herbicide	5	50%	0.5 pound	4.50	1.13
Crop Oil Concentrate	Additive	5	50%	1 pint	1.88	0.94
UAN	Additive	5	50%	3 pint	0.32	0.48
Spray	Custom	6	30%	1 acre	7.50	2.25
* Brigade 2EC	Insecticide	6	10%	5.12 ounce	1.17	0.60
* Mustang Maxx	Insecticide	6	20%	3 ounce	1.48	0.89
Spray	Custom	7	20%	1 acre	7.50	1.50
Miravis Neo	Fungicide	7	20%	10 ounce	1.80	3.59
Haul Grain Bushels	Custom	10	100%	245 bushel	0.12	29.40
Dry 2 Points Removed	Custom	11	20%	245 bushel	0.08	3.92
Scouting Irrigated Corn	Scouting		100%	1 acre	13.00	13.00
Crop Insurance					11.00	11.00
Total Materials & Services						470.05

*Insecticide for Spider mites and Western Bean Cutworm respectively.

Total listed costs for Field Operations and Materials and Services						614.10
Interest on Operations Capital \$ 565.90	cash expense @	5.50%	for 6.0 mo.			15.56
Total Operating and Use Related Ownership Costs						629.66
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)						25.00
Real Estate Opportunity [^]	Pivot (State)	\$ 6,610	per acre @	3.00%		198.30
Real Estate Taxes		\$ 6,610	per acre @	1.25%		82.63
Total Cost per Acre Including Overhead						935.59
Cash Cost per bushel	[^] Ownership and RE Opportunity not included in cash costs.					2.81
Cost of production per bushel						3.82

**2022 Budget 31-Corn, SmartStax RIB Complete, No Till, Continuous, 250 bushel Yield
Pivot Irrigated Electric, 800 GPM 35 PSI, 9 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$1.50 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Burndown Herbicide	0.5		0.47	0.13	0.06	0.47	0.54	0.86	2.53	
2 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
3 Plant No-Till	1		3.00	1.10	0.41	7.61	3.54	4.52	20.18	
4 Spray Herbicide	0.5		0.47	0.13	0.06	0.47	0.54	0.86	2.53	
5 Spray Insecticide	Custom									
6 Spray	Custom									
7 Pivot E 125' Lift w/fertigation	9	ai	10.42	23.89	2.63	8.00	5.00	8.88	58.82	
8 Combine Irr Corn	1		4.23	5.24	10.65	3.07	8.50	3.91	35.60	
9 Cart	250	bu	4.46	1.58	0.67	4.55	5.75	2.68	19.69	
10 Truck	Custom									
11 Dry Grain	Custom									
Total for Field Operations			24.00	32.33	14.61	25.12	24.94	23.43	144.43	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Glyphosate 5# w/Surfactant	Herbicide	1	50%	32 ounce	0.35	5.63
21-0-0-24S	Additive	1	50%	1.7 pound	0.45	0.38
Acuron	Herbicide	2	100%	2.5 quart	13.75	34.38
Corn SmartStax RIB Complete	Seed	3	100%	34.7 k seed	3.75	130.13
10-34-0	Fertilizer	3	100%	6 gallon	3.75	22.50
32-0-0 (Applied by R2)	Fertilizer	7	100%	225 lbs N	0.72	162.00
Glyphosate 5# w/Surfactant	Herbicide	4	50%	32 ounce	0.35	5.63
21-0-0-24S	Additive	4	50%	1.7 pound	0.45	0.38
Armezon Pro	Herbicide	4	50%	14 ounce	1.33	9.30
Spray	Custom	5	10%	1 acre	7.50	0.75
Brigade 2EC	Insecticide	5	10%	5.12 ounce	1.17	0.60
Spray	Custom	6	20%	1 acre	7.50	1.50
Revytek	Fungicide	6	20%	8 ounce	3.28	5.25
Electricity Fixed	Other	7	100%	1 acre	40.00	40.00
Haul Grain Bushels	Custom	10	100%	250 bushel	0.12	30.00
Dry 2 Points Removed	Custom	11	10%	250 bushel	0.08	2.00
Scouting Irrigated Corn	Scouting		100%	1 acre	13.00	13.00
	Crop Insurance				11.00	11.00
Total Materials & Services						475.74

Total listed costs for Field Operations and Materials and Services		620.17
Interest on Operations Capital \$ 571.80 cash expense @ 5.50% for 6.0 mo.		15.72
Total Operating and Use Related Ownership Costs		635.89
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)		25.00
Real Estate Opportunity [^] Pivot (State)	\$ 6,610 per acre @ 3.00%	198.30
Real Estate Taxes	\$ 6,610 per acre @ 1.25%	82.63
Total Cost per Acre Including Overhead		941.82
Cash Cost per bushel	[^] Ownership and RE Opportunity not included in cash costs.	2.78
Cost of production per bushel		3.77

**2022 Budget 32-Corn, SmartStax RIB Complete, Strip Till, Continuous, 260 bushel Yield
Pivot Irrigated Electric, 800 GPM 35 PSI, 9 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$1.50 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Subsoil / One-pass Tillage	1		2.78	2.97	0.15	3.25	11.39	4.60	25.14	
2 Spray Burndown Herbicide	0.5		0.47	0.13	0.06	0.47	0.54	0.86	2.53	
3 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
4 Plant No-Till	1		3.00	1.10	0.41	7.61	3.54	4.52	20.18	
5 Spray Herbicide	0.5		0.47	0.13	0.06	0.47	0.54	0.86	2.53	
6 Spray Insecticide	Custom									
7 Spray	Custom									
8 Pivot E 125' Lift w/fertigation	9	ai	10.42	23.89	2.63	8.00	5.00	8.88	58.82	
9 Combine Irr Corn	1		4.23	5.24	10.65	3.07	8.50	3.91	35.60	
10 Cart	260	bu	4.64	1.64	0.70	4.73	5.98	2.79	20.48	
11 Truck	Custom									
12 Dry Grain	Custom									
Total for Field Operations			24.18	32.39	14.64	25.30	25.17	23.54	170.36	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Glyphosate 5# w/Surfactant	Herbicide	2	50%	32 ounce	0.35	5.63
21-0-0-24S	Additive	2	50%	1.7 pound	0.45	0.38
Acuron	Herbicide	3	100%	2.5 quart	13.75	34.38
Corn SmartStax RIB Complete	Seed	4	100%	34.7 k seed	3.75	130.13
10-34-0	Fertilizer	4	100%	6 gallon	3.75	22.50
32-0-0 (Applied by R2)	Fertilizer	8	100%	230 lbs N	0.72	165.60
Glyphosate 5# w/Surfactant	Herbicide	5	50%	32 ounce	0.35	5.63
21-0-0-24S	Additive	5	50%	1.7 pound	0.45	0.38
Armezon Pro	Herbicide	5	50%	14 ounce	1.33	9.30
Spray	Custom	6	10%	1 acre	7.50	0.75
Brigade 2EC	Insecticide	6	10%	5.12 ounce	1.17	0.60
Spray	Custom	7	20%	1 acre	7.50	1.50
Revytek	Fungicide	7	20%	8 ounce	3.28	5.25
Electricity Fixed	Other	8	100%	1 acre	40.00	40.00
Haul Grain Bushels	Custom	11	100%	260 bushel	0.12	31.20
Dry 2 Points Removed	Custom	12	10%	260 bushel	0.08	2.08
Scouting Irrigated Corn	Scouting		100%	1 acre	13.00	13.00
	Crop Insurance				11.00	11.00
Total Materials & Services					480.62	

Total listed costs for Field Operations and Materials and Services		650.98
Interest on Operations Capital \$ 577.13 cash expense @ 5.50% for 6.0 mo.		15.87
Total Operating and Use Related Ownership Costs		666.85
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)		25.00
Real Estate Opportunity [^] Pivot (State)	\$ 6,610 per acre @ 3.00%	198.30
Real Estate Taxes	\$ 6,610 per acre @ 1.25%	82.63
Total Cost per Acre Including Overhead		972.78
Cash Cost per bushel	[^] Ownership and RE Opportunity not included in cash costs.	2.69
Cost of production per bushel		3.74

**2022 Budget 33-Corn, Bt, ECB, & RIB, No Till, after Beans, 275 bushel Yield
Pivot Irrigated Electric, 800 GPM 35 PSI, 9 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership^		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Burndown Herbicide	0.5		0.47	0.13	0.06	0.47	0.54	0.86	2.53	
2 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
3 Plant No-Till	1		3.00	1.10	0.41	7.61	3.54	4.52	20.18	
4 Pivot E 125' Lift w/fertigation	9	ai	10.42	23.89	2.63	8.00	5.00	8.88	58.82	
5 Spray Herbicide	0.5		0.47	0.13	0.06	0.47	0.54	0.86	2.53	
6 Spray Insecticide	Custom									
7 Spray	Custom									
8 Combine Irr Corn	1		4.23	5.24	10.65	3.07	8.50	3.91	35.60	
9 Cart	275	bu	4.91	1.74	0.74	5.00	6.33	2.95	21.67	
10 Truck	Custom									
11 Dry Grain	Custom									
Total for Field Operations			24.45	32.49	14.68	25.57	25.52	23.70	146.41	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							Glyphosate 5# w/Surfactant
2,4-D Ester LV4	Herbicide	1	100%	1 pint	2.63	2.63	
21-0-0-24S	Additive	1	100%	1.7 pound	0.45	0.77	
Acuron	Herbicide	2	100%	2.5 quart	13.75	34.38	
Crop Oil Concentrate	Additive	2	100%	1.6 pint	1.88	3.00	
21-0-0-24S	Additive	2	100%	2.5 pound	0.45	1.13	
Corn Bt, ECB, & RIB	Seed	3	100%	38.2 k seed	3.25	124.15	
10-34-0	Fertilizer	3	100%	6.0 gallon	3.75	22.50	
32-0-0 (Applied by R2)	Fertilizer	4	100%	200.0 lbs N	0.72	144.00	
Electricity Fixed	Other	4	100%	1.0 acre	40.00	40.00	
Armezon Pro	Herbicide	5	100%	14 ounce	1.33	18.59	
Atrazine 90 DF	Herbicide	5	100%	0.5 pound	4.50	2.25	
Crop Oil Concentrate	Additive	5	100%	0.5 pint	1.88	0.94	
UAN	Additive	5	100%	3 pint	0.32	0.96	
Spray	Custom	6	50%	1 acre	7.50	3.75	
* Brigade 2EC	Insecticide	6	50%	5.12 ounce	1.17	3.00	
* Mustang Maxx	Insecticide	6	50%	3 ounce	1.48	2.23	
Spray	Custom	7	50%	1 acre	7.50	3.75	
Stratego YLD	Fungicide	7	50%	2 ounce	4.69	4.69	
Haul Grain Bushels	Custom	10	100%	275 bushel	0.12	33.00	
Dry 2 Points Removed	Custom	11	30%	275 bushel	0.08	6.60	
Scouting Irrigated Corn	Scouting		100%	1 acre	13.00	13.00	
Crop Insurance					12.00	12.00	
Total Materials & Services						488.57	

*Insecticide for Spider mites and Western Bean Cutworm respectively.

Total listed costs for Field Operations and Materials and Services						634.98
Interest on Operations Capital	\$ 585.76	cash expense @	5.50%	for 6.0 mo.		16.11
Total Operating and Use Related Ownership Costs						651.09
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)						25.00
Real Estate Opportunity^	Pivot (State)	\$ 6,610	per acre @	3.00%		198.30
Real Estate Taxes		\$ 6,610	per acre @	1.25%		82.63
Total Cost per Acre Including Overhead						957.02

Cash Cost per bushel	<i>^Ownership and RE Opportunity not included in cash costs.</i>	2.58
Cost of production per bushel		3.48

**2022 Budget 34-Corn, Enlist, Bt, ECB, & RIB, No Till, after Beans, 275 bushel Yield
Pivot Irrigated Electric, 800 GPM 35 PSI, 9 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership^		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Burndown Herbicide	0.5		0.47	0.13	0.06	0.47	0.54	0.86	2.53	
2 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
3 Plant No-Till	1		3.00	1.10	0.41	7.61	3.54	4.52	20.18	
4 Pivot E 125' Lift w/fertigation	9	ai	10.42	23.89	2.63	8.00	5.00	8.88	58.82	
5 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
6 Spray Insecticide	Custom									
7 Spray	Custom									
8 Combine Irr Corn	1		4.23	5.24	10.65	3.07	8.50	3.91	35.60	
9 Cart	275	bu	4.91	1.74	0.74	5.00	6.33	2.95	21.67	
10 Truck	Custom									
11 Dry Grain	Custom									
Total for Field Operations			24.93	32.62	14.75	26.05	26.05	24.56	148.96	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate 5# w/Surfactant
2,4-D Ester LV4	Herbicide	1	50%	1 pint	2.63	1.31		
21-0-0-24S	Additive	1	50%	1.7 pound	0.45	0.38		
Acuron	Herbicide	2	100%	2.5 quart	13.75	34.38		
Crop Oil Concentrate	Additive	2	100%	1.6 pint	1.88	3.00		
21-0-0-24S	Additive	2	100%	2.5 pound	0.45	1.13		
Corn Enlist, Bt, ECB, & RIB	Seed	3	100%	38.2 k seed	3.63	138.48		
10-34-0	Fertilizer	3	100%	6.0 gallon	3.75	22.50		
32-0-0 (Applied by R2)	Fertilizer	4	100%	200.0 lbs N	0.72	144.00		
Electricity Fixed	Other	4	100%	1.0 acre	40.00	40.00		
Enlist DUO	Herbicide	5	100%	76 ounce	0.23	17.81		
Crop Oil Concentrate	Additive	5	50%	0.5 pint	1.88	0.47		
UAN	Additive	5	50%	3 pint	0.32	0.48		
Spray	Custom	6	30%	1 acre	7.50	2.25		
* Brigade 2EC	Insecticide	6	10%	5.1 ounce	1.17	0.60		
* Mustang Maxx	Insecticide	6	20%	3.0 ounce	1.48	0.89		
Spray	Custom	7	30%	1 acre	7.50	2.25		
Lucento	Fungicide	7	30%	3 ounce	4.10	3.69		
Haul Grain Bushels	Custom	10	100%	275 bushel	0.12	33.00		
Dry 2 Points Removed	Custom	11	20%	275 bushel	0.08	4.40		
Scouting Irrigated Corn	Scouting		100%	1 acre	13.00	13.00		
	Crop Insurance				12.00	12.00		
Total Materials & Services							481.65	

*Insecticide for Spider mites and Western Bean Cutworm respectively.

Total listed costs for Field Operations and Materials and Services 630.61

Interest on Operations Capital \$ 580.00 cash expense @ 5.50% for 6.0 mo. 15.95

Total Operating and Use Related Ownership Costs 646.56

Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests) 25.00

Real Estate Opportunity^ Pivot (State) \$ 6,610 per acre @ 3.00% 198.30

Real Estate Taxes \$ 6,610 per acre @ 1.25% 82.63

Total Cost per Acre Including Overhead 952.49

Cash Cost per bushel ^Ownership and RE Opportunity not included in cash costs. 2.56

Cost of production per bushel 3.46

**2022 Budget 35-Corn, Bt, ECB, RR2, LL, & RIB, No Till, after Beans, 275 bushel Yield
Pivot Irrigated Electric, 800 GPM 35 PSI, 9 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership^		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Burndown Herbicide	0.5		0.47	0.13	0.06	0.47	0.54	0.86	2.53	
2 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
3 Plant No-Till	1		3.00	1.10	0.41	7.61	3.54	4.52	20.18	
4 Pivot E 125' Lift w/fertigation	9	ai	10.42	23.89	2.63	8.00	5.00	8.88	58.82	
5 Spray Herbicide	0.5		0.47	0.13	0.06	0.47	0.54	0.86	2.53	
6 Spray Insecticide	Custom									
7 Spray	Custom									
8 Combine Irr Corn	1		4.23	5.24	10.65	3.07	8.50	3.91	35.60	
9 Cart	275	bu	4.91	1.74	0.74	5.00	6.33	2.95	21.67	
10 Truck	Custom									
11 Dry Grain	Custom									
Total for Field Operations			24.45	32.49	14.68	25.57	25.52	23.70	146.41	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate 5# w/Surfactant
2,4-D Ester LV4	Herbicide	1	50%	1 pint	2.63	1.31		
21-0-0-24S	Additive	1	50%	1.7 pound	0.45	0.38		
Acuron	Herbicide	2	100%	2.5 quart	13.75	34.38		
Crop Oil Concentrate	Additive	2	100%	1.6 pint	1.88	3.00		
21-0-0-24S	Additive	2	100%	2.5 pound	0.45	1.13		
Corn Bt, ECB, RR2, LL, & RIB	Seed	3	100%	38.2 k seed	3.25	124.15		
10-34-0	Fertilizer	3	100%	6.0 gallon	3.75	22.50		
32-0-0 (Applied by R2)	Fertilizer	4	100%	200.0 lbs N	0.72	144.00		
Electricity Fixed	Other	4	100%	1.0 acre	40.00	40.00		
Liberty	Herbicide	5	100%	40 ounce	0.39	15.63		
Armezon	Herbicide	5	50%	0.75 ounce	20.00	7.50		
Atrazine 90 DF	Herbicide	5	50%	0.5 pound	4.50	1.13		
Crop Oil Concentrate	Additive	5	50%	0.5 pint	1.88	0.47		
UAN	Additive	5	50%	3 pint	0.32	0.48		
Spray	Custom	6	30%	1 acre	7.50	2.25		
* Brigade 2EC	Insecticide	6	10%	5.12 ounce	1.17	0.60		
* Mustang Maxx	Insecticide	6	20%	3 ounce	1.48	0.89		
Spray	Custom	7	30%	1 acre	7.50	2.25		
Miravis Neo	Fungicide	7	30%	10 ounce	1.80	5.39		
Haul Grain Bushels	Custom	10	100%	275 bushel	0.12	33.00		
Dry 2 Points Removed	Custom	11	20%	275 bushel	0.08	4.40		
Scouting Irrigated Corn	Scouting		100%	1 acre	13.00	13.00		
Crop Insurance					12.00	12.00		
Total Materials & Services							475.47	

*Insecticide for Spider mites and Western Bean Cutworm respectively.

Total listed costs for Field Operations and Materials and Services		621.88
Interest on Operations Capital \$ 572.66	cash expense @ 5.50% for 6.0 mo.	15.75
Total Operating and Use Related Ownership Costs		637.63

Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)		25.00	
Real Estate Opportunity^	Pivot (State) \$ 6,610	per acre @ 3.00%	198.30
Real Estate Taxes	\$ 6,610	per acre @ 1.25%	82.63
Total Cost per Acre Including Overhead		943.56	

Cash Cost per bushel	^Ownership and RE Opportunity not included in cash costs.	2.53
Cost of production per bushel		3.43

**2022 Budget 36-Corn, Bt, ECB, RW, & RIB, Conventional Tillage, Continuous, 235 bushel Yield
Pivot Irrigated Diesel, 800 GPM 35 PSI, 13 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership^		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.52	2.46	0.12	1.43	9.40	1.29	17.22	
2 Field Cultivation	1		1.83	1.77	0.28	1.59	2.36	1.80	9.63	
3 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
4 Plant	1		3.00	0.89	0.41	5.28	3.54	3.13	16.25	
5 Row Crop Cultivation	1		2.50	1.03	0.38	1.06	3.22	3.61	11.80	
6 Row Crop Cultivation	0.25		0.63	0.26	0.09	0.26	0.81	0.90	2.95	
7 Spray Insecticide		Custom								
8 Spray		Custom								
9 Pivot D 125' Lift w/fertigation	13	ai	15.05	78.23	4.46	8.00	8.47	12.34	126.55	
10 Combine Irr Corn	1		4.23	5.24	10.65	3.07	8.50	3.91	35.60	
11 Cart	235	bu	4.20	1.48	0.63	4.27	5.41	2.52	18.51	
12 Truck		Custom								
13 Dry Grain		Custom								
Total for Field Operations			34.91	91.62	17.15	25.91	42.78	31.22	243.59	

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	10.00	21.00	
Corn Bt, ECB, RW, & RIB		4	100%	32.6 k seed	3.63	118.18	
10-34-0		4	100%	6 gallon	3.75	22.50	
32-0-0 (Applied by R2)		9	100%	210 lbs N	0.72	151.20	
Spray		7	30%	1 acre	7.50	2.25	
* Brigade 2EC		7	10%	5.12 ounce	1.17	0.60	
* Mustang Maxx		7	20%	3 ounce	1.48	0.89	
Spray		8	20%	1 acre	7.50	1.50	
Revytek		8	20%	8 ounce	3.28	5.25	
Haul Grain Bushels		12	100%	235 bushel	0.12	28.20	
Dry 2 Points Removed		13	20%	235 bushel	0.08	3.76	
Scouting Irrigated Corn			100%	1 acre	13.00	13.00	
Crop Insurance					11.00	11.00	
Total Materials & Services						399.33	

*Insecticide for Spider mites and Western Bean Cutworm respectively.

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 568.92 cash expense @ 5.50% for 6.0 mo.

Total Operating and Use Related Ownership Costs

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

Real Estate Opportunity^ Pivot (State) \$ 6,610 per acre @ 3.00%
Real Estate Taxes \$ 6,610 per acre @ 1.25%

Total Cost per Acre Including Overhead

Cash Cost per bushel ^Ownership and RE Opportunity not included in cash costs.

Cost of production per bushel

**2022 Budget 37-Corn, Bt, ECB, & RIB, Conventional Tillage, after Beans, 245 bushel Yield
Pivot Irrigated Diesel, 800 GPM 35 PSI, 13 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership^		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Field Cultivation	1		1.83	1.77	0.28	1.59	2.36	1.80	9.63	
2 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
3 Plant	1		3.00	0.89	0.41	5.28	3.54	3.13	16.25	
4 Row Crop Cultivation	1		2.50	1.03	0.38	1.06	3.22	3.61	11.80	
5 Row Crop Cultivation	0.25		0.63	0.26	0.09	0.26	0.81	0.90	2.95	
6 Spray Insecticide	Custom									
7 Spray	Custom									
8 Pivot D 125' Lift w/fertigation	13	ai	15.05	78.23	4.46	8.00	8.47	12.34	126.55	
9 Combine Irr Corn	1		4.23	5.24	10.65	3.07	8.50	3.91	35.60	
10 Cart	245	bu	4.38	1.55	0.66	4.46	5.64	2.62	19.31	
11 Truck	Custom									
12 Dry Grain	Custom									
Total for Field Operations			32.57	89.23	17.06	24.67	33.61	30.03	227.17	

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	10.00	21.00	
Corn Bt, ECB, & RIB	Seed	3	100%	34.0 k seed	3.25	110.50	
10-34-0	Fertilizer	3	100%	6 gallon	3.75	22.50	
32-0-0 (Applied by R2)	Fertilizer	8	100%	175 lbs N	0.72	126.00	
Spray	Custom	6	30%	1 acre	7.50	2.25	
* Brigade 2EC	Insecticide	6	10%	5.12 ounce	1.17	0.60	
* Mustang Maxx	Insecticide	6	20%	3 ounce	1.48	0.89	
Spray	Custom	7	20%	1 acre	7.50	1.50	
Stratego YLD	Fungicide	7	20%	2 ounce	4.69	1.88	
Haul Grain Bushels	Custom	11	100%	245 bushel	0.12	29.40	
Dry 2 Points Removed	Custom	12	20%	245 bushel	0.08	3.92	
Scouting Irrigated Corn	Scouting		100%	1 acre	13.00	13.00	
Crop Insurance					11.00	11.00	
Total Materials & Services						364.44	

*Insecticide for Spider mites and Western Bean Cutworm respectively.

Total listed costs for Field Operations and Materials and Services		591.61	
Interest on Operations Capital \$ 527.97	cash expense @ 5.50% for 6.0 mo.	14.52	
Total Operating and Use Related Ownership Costs		606.13	
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)		25.00	
Real Estate Opportunity^	Pivot (State)	\$ 6,610	per acre @ 3.00%
Real Estate Taxes		\$ 6,610	per acre @ 1.25%
Total Cost per Acre Including Overhead		912.06	

Cash Cost per bushel	<i>^Ownership and RE Opportunity not included in cash costs.</i>	2.65
Cost of production per bushel		3.72

**2022 Budget 38-Corn, SmartStax RIB Complete, Panhandle, Conventional Tillage, Continuous, 175 bushel Yield
Pivot Irrigated Electric, 800 GPM 35 PSI, 13 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.52	2.46	0.12	1.43	9.40	1.29	17.22	
2 Field Cultivation	1		1.83	1.77	0.28	1.59	2.36	1.80	9.63	
3 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
4 Plant	1		3.00	0.89	0.41	5.28	3.54	3.13	16.25	
5 Row Crop Cultivation	1		2.50	1.03	0.38	1.06	3.22	3.61	11.80	
6 Spray Herbicide	Custom									
7 Aerial Spray	Custom									
8 Aerial Spray	Custom									
9 Pivot E 125' Lift w/fertigation	13	ai	15.05	34.51	3.80	8.00	6.66	12.83	80.85	
10 Combine Irr Corn	1		4.23	5.24	10.65	3.07	8.50	3.91	35.60	
11 Cart	175	bu	3.13	1.11	0.47	3.18	4.03	1.87	13.79	
12 Truck	Custom									
13 Dry Grain	Custom									
Total for Field Operations			33.21	47.27	16.24	24.56	38.78	30.16	190.22	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Bicep II Magnum	Herbicide	3	100%	2.1 quart	10.00	21.00
10-34-0	Fertilizer	4	100%	8 gallon	3.75	30.00
Corn SmartStax RIB Complete	Seed	4	100%	27.2 k seed	3.75	102.00
32-0-0 (Applied by R2)	Fertilizer	8	100%	160 lbs N	0.72	115.20
Spray	Custom	6	100%	1 acre	7.50	7.50
Glyphosate 5# w/Surfactant	Herbicide	6	100%	32 ounce	0.35	11.25
Armezon Pro	Herbicide	6	100%	14 ounce	1.33	18.59
21-0-0-24S	Additive	6	100%	1.7 pound	0.45	0.77
Aerial Spray	Custom	7	10%	1 acre	10.00	1.00
Brigade 2EC	Insecticide	7	10%	5.12 ounce	1.17	0.60
Aerial Spray	Custom	8	10%	1 acre	10.00	1.00
Lucento	Fungicide	8	10%	3 ounce	4.10	1.23
Electricity Fixed	Other	9	100%	1 acre	40.00	40.00
Haul Grain Bushels	Custom	12	100%	175 bushel	0.12	21.00
Dry 2 Points Removed	Custom	13	10%	175 bushel	0.08	1.40
Scouting Irrigated Corn	Scouting		100%	1 acre	13.00	13.00
	Crop Insurance				18.00	18.00
Total Materials & Services					423.54	

Total listed costs for Field Operations and Materials and Services						613.76
Interest on Operations Capital \$ 544.82	cash expense @	5.50%	for 6.0 mo.			14.98
Total Operating and Use Related Ownership Costs						628.74
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)						25.00
Real Estate Opportunity [^]	Pivot (Panhandle)	\$ 2,565	per acre @	3.00%		76.95
Real Estate Taxes		\$ 2,565	per acre @	1.25%		32.06
Total Cost per Acre Including Overhead						762.75
Cash Cost per bushel	[^] Ownership and RE Opportunity not included in cash costs.					3.52
Cost of production per bushel						4.36

**2022 Budget 39-Corn, Bt, ECB, RR2, LL, & RIB, Panhandle, Conventional Tillage, after Beans, 185 bushel Yield
Pivot Irrigated Electric, 800 GPM 35 PSI, 13 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Field Cultivation	1		1.83	1.77	0.28	1.59	2.36	1.80	9.63	
2 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
3 Plant	1		3.00	0.89	0.41	5.28	3.54	3.13	16.25	
4 Row Crop Cultivation	1		2.50	1.03	0.38	1.06	3.22	3.61	11.80	
5 Spray Herbicide	Custom									
6 Aerial Spray	Custom									
7 Aerial Spray	Custom									
8 Pivot E 125' Lift w/fertigation	13	ai	15.05	34.51	3.80	8.00	6.66	12.83	80.85	
9 Combine Irr Corn	1		4.23	5.24	10.65	3.07	8.50	3.91	35.60	
10 Cart	185	bu	3.30	1.17	0.50	3.36	4.26	1.98	14.57	
11 Truck	Custom									
12 Dry Grain	Custom									
Total for Field Operations			30.86	44.87	16.15	23.31	29.61	28.98	173.78	

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	10.00	21.00	
10-34-0	Fertilizer	3	100%	8 gallon	3.75	30.00	
Corn Bt, ECB, RR2, LL, & RIB	Seed	3	100%	28.8 k seed	3.25	93.60	
32-0-0 (Applied by R2)	Fertilizer	8	100%	140 lbs N	0.72	100.80	
Spray	Custom	5	100%	1 acre	7.50	7.50	
Glyphosate 5# w/Surfactant	Herbicide	5	100%	32 ounce	0.35	11.25	
DiFlexx DUO	Herbicide	5	100%	32 ounce	0.82	26.25	
Aerial Spray	Custom	6	10%	1 acre	10.00	1.00	
Brigade 2EC	Insecticide	6	10%	5.12 ounce	1.17	0.60	
Aerial Spray	Custom	7	10%	1 acre	10.00	1.00	
Miravis Neo	Fungicide	7	10%	10 ounce	1.80	1.80	
Electricity Fixed	Other	8	100%	1 acre	40.00	40.00	
Haul Grain Bushels	Custom	11	100%	185 bushel	0.12	22.20	
Dry 2 Points Removed	Custom	12	10%	185 bushel	0.08	1.48	
Scouting Irrigated Corn	Scouting		100%	1 acre	13.00	13.00	
	Crop Insurance				19.00	19.00	
Total Materials & Services						410.48	

Total listed costs for Field Operations and Materials and Services		584.26
Interest on Operations Capital \$ 525.67 cash expense @ 5.50% for 6.0 mo.		14.46
Total Operating and Use Related Ownership Costs		598.72
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)		25.00
Real Estate Opportunity [^] Pivot (Panhandle)	\$ 2,565 per acre @ 3.00%	76.95
Real Estate Taxes	\$ 2,565 per acre @ 1.25%	32.06
Total Cost per Acre Including Overhead		732.73
Cash Cost per bushel	[^] Ownership and RE Opportunity not included in cash costs.	3.23
Cost of production per bushel		3.96

**2022 Budget 40-Corn, SmartStax RIB Complete, Conventional Tillage, Continuous, 240 bushel Yield
Pivot Irrigated Electric, 800 GPM 35 PSI, 13 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.52	2.46	0.12	1.43	9.40	1.29	17.22	
2 Field Cultivation	1		1.83	1.77	0.28	1.59	2.36	1.80	9.63	
3 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
4 Plant	1		3.00	0.89	0.41	5.28	3.54	3.13	16.25	
5 Row Crop Cultivation	1		2.50	1.03	0.38	1.06	3.22	3.61	11.80	
6 Row Crop Cultivation	0.25		0.63	0.26	0.09	0.26	0.81	0.90	2.95	
7 Spray Insecticide	Custom									
8 Spray	Custom									
9 Spray Herbicide	Custom									
10 Pivot E 125' Lift w/fertigation	13	ai	15.05	34.51	3.80	8.00	6.66	12.83	80.85	
11 Combine Irr Corn	1		4.23	5.24	10.65	3.07	8.50	3.91	35.60	
12 Cart	240	bu	4.29	1.52	0.64	4.36	5.52	2.57	18.90	
13 Truck	Custom									
14 Dry Grain	Custom									
Total for Field Operations			35.00	47.94	16.50	26.00	41.08	31.76	198.28	

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	10.00	21.00
Corn SmartStax RIB Complete	Seed	4	100%	33.3 k seed	3.75	124.88
10-34-0	Fertilizer	4	100%	6 gallon	3.75	22.50
Spray	Custom	7	10%	1.0 acre	7.50	0.75
Brigade 2EC	Insecticide	7	10%	5.12 ounce	1.17	0.60
Spray	Custom	8	20%	1 acre	7.50	1.50
Revytek	Fungicide	8	20%	8.0 ounce	3.28	5.25
Spray	Herbicide	9	100%	1 acre	7.00	7.00
DiFlexx DUO	Herbicide	9	100%	32 ounce	0.82	26.25
32-0-0 (Applied by R2)	Fertilizer	10	100%	215.0 lbs N	0.72	154.80
Electricity Fixed	Other	10	100%	1 acre	40.00	40.00
Haul Grain Bushels	Custom	13	100%	240 bushel	0.12	28.80
Dry 2 Points Removed	Custom	14	20%	240 bushel	0.08	3.84
Scouting Irrigated Corn	Scouting		100%	1 acre	13.00	13.00
	Crop Insurance				11.00	11.00
Total Materials & Services					481.17	

Total listed costs for Field Operations and Materials and Services		679.45
Interest on Operations Capital \$ 606.61 cash expense @ 5.50% for 6.0 mo.		16.68
Total Operating and Use Related Ownership Costs		696.13

Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)		25.00
Real Estate Opportunity [^] Pivot (State)	\$ 6,610 per acre @ 3.00%	198.30
Real Estate Taxes	\$ 6,610 per acre @ 1.25%	82.63
Total Cost per Acre Including Overhead		1,002.06

Cash Cost per bushel	[^] Ownership and RE Opportunity not included in cash costs.	3.05
Cost of production per bushel		4.18

**2022 Budget 41-Corn, Silage, No Till, Continuous, 28 ton Yield
Pivot Irrigated Diesel, 800 GPM 35 PSI, 12 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership^		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
2 Spread Manure	Custom									
3 Plant No-Till	1		3.00	1.10	0.41	7.61	3.54	4.52	20.18	
4 Spray Herbicide	Custom									
5 Pivot D 125' Lift	12	ai	10.42	72.21	4.12	8.00	7.81	11.39	113.95	
6 Aerial Spray	Custom									
7 Chop Silage	Custom									
Total for Field Operations			14.37	73.57	4.66	16.56	12.42	17.63	139.21	

Materials & Services		Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate	
				Rate	Unit				
2,4-D Ester LV4	Herbicide	1	100%	1	pint	2.63	2.63		
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	10.00	14.00		
Corn	Seed	3	100%	32.2	k seed	2.88	92.58		
* Capture LFR	Insecticide	3	100%	6.6	ounce	2.81	18.56		
Spray	Custom	4	50%	1	acre	7.50	3.75		
Armezon Pro	Herbicide	4	50%	14	ounce	1.33	9.30		
NIS	Additive	4	50%	6	ounce	0.16	0.47		
UAN	Additive	4	50%	4	pint	0.32	0.64		
* Aerial Spray	Custom	6	15%	1	acre	10.00	1.50		
* Brigade 2EC	Insecticide	6	10%	2.5	ounce	1.17	0.29		
* Mustang Maxx	Insecticide	6	5%	3	ounce	1.48	0.22		
Chop, Haul, Pack	Custom	7	100%	28	ton	17.77	497.56		
Scouting Irrigated Corn	Scouting		100%	1	acre	13.00	13.00		
	Crop Insurance					11.00	11.00		
Total Materials & Services								805.50	

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

Total listed costs for Field Operations and Materials and Services								944.71
Interest on Operations Capital	\$	914.66	cash expense @	5.50%	for 6.0 mo.			25.15
Total Operating and Use Related Ownership Costs								969.86
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)								25.00
Real Estate Opportunity^		Pivot (State)	\$	6,610	per acre @	3.00%		198.30
Real Estate Taxes			\$	6,610	per acre @	1.25%		82.63
Total Cost per Acre Including Overhead								1,275.79
Cash Cost per ton								37.41
Cost of production per ton								45.56

^Ownership and RE Opportunity not included in cash costs.

**2022 Budget 42-Dry Beans, Panhandle, Reduced Till, after Harvest Cover Crop, 27 cwt Yield
Pivot Irrigated Electric, 800 GPM 35 PSI, 8 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.52	2.46	0.12	1.43	9.40	1.29	17.22	
2 Field Cultivation	1		1.83	1.77	0.28	1.59	2.36	1.80	9.63	
3 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
4 Plant	1		3.00	0.89	0.41	5.28	3.54	3.13	16.25	
5 Pivot E 125' Lift	8	ai	6.94	21.24	2.34	8.00	4.10	7.59	50.21	
6 Spray Herbicide	0.6		0.57	0.16	0.08	0.57	0.64	1.03	3.05	
7 Aerial Spray	Custom									
8 Aerial Spray	Custom									
9 Pickett Windrowers	1		2.75	1.97	0.41	1.09	3.54	1.94	11.70	
10 Combine Irr Dry Beans	1		5.00	6.19	12.59	2.96	10.05	4.82	41.61	
11 Truck	Custom									
12 Drill	1		2.20	1.29	0.33	4.64	2.83	1.58	12.87	
Total for Field Operations			25.76	36.23	16.69	26.51	37.53	24.90	167.62	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							Outlook
Prowl H2O	Herbicide	3	100%	2 pint	6.88	13.75	
Edible Beans	Seed	4	100%	0.65 cwt	92.00	59.80	
10-34-0-1Zn	Fertilizer	4	100%	7 gallon	3.85	26.95	
46-0-0	Fertilizer	4	100%	50 lbs N	0.75	37.50	
Electricity Fixed	Other	5	100%	1 acre	40.00	40.00	
Basagran 5L	Herbicide	6	60%	1.2 pint	9.38	6.75	
Raptor	Herbicide	6	60%	4 ounce	4.77	11.44	
NIS	Additive	6	60%	5 ounce	0.16	0.47	
UAN	Additive	6	60%	4 pint	0.32	0.77	
* Aerial Spray	Custom	7	60%	1 acre	10.00	6.00	
* Asana XL	Insecticide	7	60%	5.8 ounce	0.63	2.18	
Aerial Spray	Custom	8	100%	1 acre	10.00	10.00	
Copper	Fungicide	8	100%	2 pint	8.00	16.00	
Priaxor	Fungicide	8	100%	4 ounce	4.69	18.75	
Haul Grain (Dry Beans)	Custom	11	100%	27 cwt	0.28	7.56	
Wheat Cover Crop	Seed	12	100%	30 pound	0.12	3.60	
Scouting Dry Beans	Scouting		100%	1 acre	11.00	11.00	
	Crop Insurance				28.00	28.00	

Total Materials & Services Electricity connect fee 6 months @ \$72/mo 133 acres 318.57

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

Total listed costs for Field Operations and Materials and Services 486.19

Interest on Operations Capital \$ 423.76 cash expense @ 5.50% for 6.0 mo. 11.65

Total Operating and Use Related Ownership Costs 497.84

Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests) 25.00

Real Estate Opportunity[^] Pivot (Panhandle) \$ 2,565 per acre @ 3.00% 76.95

Real Estate Taxes \$ 2,565 per acre @ 1.25% 32.06

Total Cost per Acre Including Overhead 631.85

Cash Cost per cwt ^{^Ownership and RE Opportunity not included in cash costs.} 18.24

Cost of production per cwt 23.40

**2022 Budget 43-Dry Beans, Panhandle, Conventional Tillage, 27 cwt Yield
Gravity Irrigated, fed by canal, 10 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Chop Stalks	1		2.23	1.51	0.34	1.09	2.87	4.97	13.01	
2 Plow	1		3.67	2.59	0.18	0.96	13.67	0.58	21.65	
3 Roller Harrow	1		2.50	1.62	0.41	0.98	3.54	2.84	11.89	
4 Field Cultivation	1		1.83	1.77	0.28	1.59	2.36	1.80	9.63	
5 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
6 Plant	1		3.00	0.89	0.41	5.28	3.54	3.13	16.25	
7 Spray Herbicide	0.6		0.57	0.16	0.08	0.57	0.64	1.03	3.05	
8 Row Crop Cultivation	1		2.50	1.03	0.38	1.06	3.22	3.61	11.80	
9 Ridge Cultivate/Ditch	1		2.29	1.44	0.34	0.87	2.95	3.61	11.50	
10 Ditch Irrigation	10	ai	13.89	0.00	1.14	0.00	2.56	0.00	17.59	
11 Aerial Spray	Custom									
12 Aerial Spray	Custom									
13 Pickett Windrowers	1		2.75	1.97	0.41	1.09	3.54	1.94	11.70	
14 Combine Irr Dry Beans	1		5.00	6.19	12.59	2.96	10.05	4.82	41.61	
15 Truck	Custom									
Total for Field Operations			41.18	19.43	16.69	17.40	50.01	30.05	174.76	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Prowl H2O	Herbicide	5	100%	2 pint	6.88	13.75
Edible Beans	Seed	6	100%	0.65 cwt	92.00	59.80
10-34-0-1Zn	Fertilizer	6	100%	7 gallon	3.85	26.95
46-0-0	Fertilizer	6	100%	50 lbs N	0.75	37.50
Basagran 5L	Herbicide	7	60%	1.2 pint	9.38	6.75
Raptor	Herbicide	7	60%	4 ounce	4.77	11.44
NIS	Additive	7	60%	5 ounce	0.16	0.47
UAN	Additive	7	60%	4 pint	0.32	0.77
* Aerial Spray	Custom	11	60%	1 acre	10.00	6.00
* Asana XL	Insecticide	11	60%	5.8 ounce	0.63	2.18
Aerial Spray	Custom	12	100%	1 acre	10.00	10.00
Copper	Fungicide	12	100%	2 pint	8.00	16.00
Priaxor	Fungicide	12	100%	4 ounce	4.69	18.75
Haul Grain (Dry Beans)	Custom	15	100%	27 cwt	0.28	7.56
Irrigation District O&M Charge	Other	10	100%	1 acre	35.00	35.00
Scouting Dry Beans	Scouting		100%	1 acre	11.00	11.00
Crop Insurance					28.00	28.00
Total Materials & Services						309.97

* Mexican Bean Beetle and Western Bean Cutworm

Total listed costs for Field Operations and Materials and Services						484.73
Interest on Operations Capital \$ 404.67	cash expense @	5.50%	for 6.0 mo.			11.13
Total Operating and Use Related Ownership Costs						495.86
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)						25.00
Real Estate Opportunity [^]	Gravity (Panhandle)	\$ 2,135	per acre @	3.00%		64.05
Real Estate Taxes		\$ 2,135	per acre @	1.25%		26.69
Total Cost per Acre Including Overhead						611.60
Cash Cost per cwt						17.31
Cost of production per cwt						22.65

[^]Ownership and RE Opportunity not included in cash costs.

**2022 Budget 44-Dry Beans, Panhandle, Conventional Tillage, 27 cwt Yield
Pivot Irrigated Electric, 800 GPM 35 PSI, 9 acre/inches**

	Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Disk	2		5.04	4.93	0.24	2.87	18.80	2.57	34.45	
2	Chisel	1		2.48	2.42	0.37	2.28	3.19	1.63	12.37	
3	Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
4	Field Cultivation	1		1.83	1.77	0.28	1.59	2.36	1.80	9.63	
5	Plant	1		3.00	0.89	0.41	5.28	3.54	3.13	16.25	
6	Spray Herbicide	0.6		0.57	0.16	0.08	0.57	0.64	1.03	3.05	
7	Row Crop Cultivation	1		2.50	1.03	0.38	1.06	3.22	3.61	11.80	
8	Pivot E 125' Lift	9	ai	7.81	23.89	2.63	8.00	4.61	8.54	55.48	
9	Aerial Spray	Custom									
10	Aerial Spray	Custom									
11	Pickett Windrowers	1		2.75	1.97	0.41	1.09	3.54	1.94	11.70	
12	Combine Irr Dry Beans	1		5.00	6.19	12.59	2.96	10.05	4.82	41.61	
13	Truck	Custom									
Total for Field Operations				31.93	43.51	17.52	26.65	51.02	30.79	201.42	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Prowl H2O	Herbicide	3	100%	2 pint	6.88	13.75	
Edible Beans	Seed	5	100%	0.65 cwt	92.00	59.80	
10-34-0-1Zn	Fertilizer	5	100%	7 gallon	3.85	26.95	
46-0-0	Fertilizer	5	100%	50 lbs N	0.75	37.50	
Raptor	Herbicide	6	60%	4 ounce	4.77	11.44	
Basagran 5L	Herbicide	6	60%	1.2 pint	9.38	6.75	
NIS	Additive	6	60%	5 ounce	0.16	0.47	
UAN	Additive	6	60%	4 pint	0.32	0.77	
Electricity Fixed	Other	8	100%	1 acre	40.00	40.00	
* Aerial Spray	Custom	9	60%	1 acre	10.00	6.00	
* Asana XL	Insecticide	9	60%	5.8 ounce	0.63	2.18	
Aerial Spray	Custom	10	100%	1 acre	10.00	10.00	
Copper	Fungicide	10	100%	2 pint	8.00	16.00	
Priaxor	Fungicide	10	100%	4 ounce	4.69	18.75	
Haul Grain (Dry Beans)	Custom	13	100%	27 cwt	0.28	7.56	
Scouting Dry Beans	Scouting		100%	1 acre	11.00	11.00	
	Crop Insurance				28.00	28.00	
Total Materials & Services						314.97	

* Mexican Bean Beetle and Western Bean Cutworm

Total listed costs for Field Operations and Materials and Services 516.39

Interest on Operations Capital \$ 434.58 cash expense @ 5.50% for 6.0 mo. 11.95

Total Operating and Use Related Ownership Costs 528.34

Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests) 25.00

Real Estate Opportunity[^] Pivot (Panhandle) \$ 2,565 per acre @ 3.00% 76.95

Real Estate Taxes \$ 2,565 per acre @ 1.25% 32.06

Total Cost per Acre Including Overhead 662.35

Cash Cost per cwt [^]Ownership and RE Opportunity not included in cash costs. 18.65

Cost of production per cwt 24.53

**2022 Budget 45-Dry Beans, Direct Harvest, Panhandle, Conventional Tillage, 27 cwt Yield
Pivot Irrigated Electric, 800 GPM 35 PSI, 9 acre/inches**

	Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Disk	2		5.04	4.93	0.24	2.87	18.80	2.57	34.45	
2	Chisel	1		2.48	2.42	0.37	2.28	3.19	1.63	12.37	
3	Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
4	Field Cultivation	1		1.83	1.77	0.28	1.59	2.36	1.80	9.63	
5	Plant	1		3.00	0.89	0.41	5.28	3.54	3.13	16.25	
6	Spray Herbicide	0.6		0.57	0.16	0.08	0.57	0.64	1.03	3.05	
7	Pivot E 125' Lift	9	ai	7.81	23.89	2.63	8.00	4.61	8.54	55.48	
8	Aerial Spray	Custom									
9	Aerial Spray	Custom									
10	Spray Herbicide	0.1		0.09	0.03	0.01	0.09	0.11	0.17	0.50	
11	Combine Irrigated Dry Beans with Draper Flex Platform	1		5.00	6.19	12.59	3.26	10.05	5.30	42.39	
12	Truck	Custom									
Total for Field Operations				26.77	40.54	16.74	24.89	44.37	25.89	179.20	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Outlook
Prowl H2O	Herbicide	3	100%	2 pint	6.88	13.75		
Edible Beans	Seed	5	100%	1 cwt	92.00	92.00		
10-34-0-1Zn	Fertilizer	5	100%	7 gallon	3.85	26.95		
46-0-0	Fertilizer	5	100%	50 lbs N	0.75	37.50		
Raptor	Herbicide	6	60%	4 ounce	4.77	11.44		
Basagran 5L	Herbicide	6	60%	1.2 pint	9.38	6.75		
NIS	Additive	6	60%	5 ounce	0.16	0.47		
UAN	Additive	6	60%	4 pint	0.32	0.77		
Electricity Fixed	Other	7	100%	1 acre	40.00	40.00		
* Aerial Spray	Custom	8	60%	1 acre	10.00	6.00		
* Asana XL	Insecticide	8	60%	5.8 ounce	0.63	2.18		
Aerial Spray	Custom	9	100%	1 acre	10.00	10.00		
Copper	Fungicide	9	100%	2 pint	8.00	16.00		
Priaxor	Fungicide	9	100%	4 ounce	4.69	18.75		
Gramoxone SL 2.0	Herbicide	10	10%	2 pint	2.25	0.45		
Haul Grain (Dry Beans)	Custom	12	100%	27 cwt	0.28	7.56		
Scouting Dry Beans	Scouting		100%	1 acre	11.00	11.00		
	Crop Insurance				28.00	28.00		
Total Materials & Services							347.62	

* Mexican Bean Beetle and Western Bean Cutworm

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 456.56 cash expense @ 5.50% for 6.0 mo.

Total Operating and Use Related Ownership Costs

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

Real Estate Opportunity[^] Pivot (Panhandle) \$ 2,565 per acre @ 3.00%
Real Estate Taxes \$ 2,565 per acre @ 1.25%

Total Cost per Acre Including Overhead

Cash Cost per cwt

[^]Ownership and RE Opportunity not included in cash costs.

Cost of production per cwt

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.

**2022 Budget 46-Grain Sorghum, Southwest, Conventional Tillage, 115 bushel Yield
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.52	2.46	0.12	1.43	9.40	1.29	17.22	
2 Anhydrous Application	1		2.29	1.72	0.34	0.58	2.95	3.63	11.51	
3 Field Cultivation	1		1.83	1.77	0.28	1.59	2.36	1.80	9.63	
4 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
5 Plant	1		3.00	0.89	0.41	5.28	3.54	3.13	16.25	
6 Row Crop Cultivation	1		2.50	1.03	0.38	1.06	3.22	3.61	11.80	
7 Row Crop Cultivation	0.25		0.63	0.26	0.09	0.26	0.81	0.90	2.95	
8 Spray Herbicide	0.5		0.47	0.13	0.06	0.47	0.54	0.86	2.53	
9 Aerial Spray	Custom									
10 Combine Dryland SG	1		3.93	4.86	9.89	1.67	7.90	4.73	32.98	
11 Cart	115	bu	2.05	0.73	0.31	2.09	2.65	1.23	9.06	
12 Truck	Custom									
Total for Field Operations			20.17	14.11	12.01	15.38	34.44	22.9	119.01	

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	3.75	22.50	
Lumax EZ	Herbicide	4	100%	2.7 quart	13.75	37.13	
AAtrex 4L	Herbicide	4	100%	0.5 quart	4.00	2.00	
Sorghum Safened/Insect	Seed	5	100%	4 pound	3.50	14.00	
Huskie	Herbicide	8	50%	11 ounce	0.98	5.37	
21-0-0-24S	Additive	8	50%	1 pound	0.45	0.23	
* Aerial Spray	Custom	9	15%	1 acre	10.00	1.50	
* Mustang Maxx	Insecticide	9	15%	3 ounce	1.48	0.67	
Haul Grain Bushels	Custom	12	100%	115 bushel	0.12	13.80	
Scouting Grain Sorghum	Scouting		100%	1 acre	8.00	8.00	
	Crop Insurance				29.00	29.00	
Total Materials & Services						188.20	

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

Total listed costs for Field Operations and Materials and Services						307.21
Interest on Operations Capital	\$ 249.87	cash expense @	5.50%	for 6.0 mo.		6.87
Total Operating and Use Related Ownership Costs						314.08
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)						25.00
** Real Estate Opportunity [^]	Dryland (Southwest)	\$ 1,012	per acre @	3.00%		30.35
** Real Estate Taxes		\$ 1,012	per acre @	1.25%		12.64
Total Cost per Acre Including Overhead						382.07
Cash Cost per bushel	[^] Ownership and RE Opportunity not included in cash costs.					2.56
Cost of production per bushel						3.32

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

**2022 Budget 47-Grain Sorghum, No Till, 135 bushel Yield
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Burndown Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
2 Spray Fertilizer and Herbicide	1		0.95	0.26	0.13	0.25	1.07	4.31	6.97	
3 Plant No-Till	1		3.00	1.10	0.41	7.61	3.54	4.52	20.18	
4 Spray Herbicide	0.5		0.47	0.13	0.06	0.47	0.54	0.86	2.53	
5 Aerial Spray	Custom									
6 Combine Dryland SG	1		3.93	4.86	9.89	1.67	7.90	4.73	32.98	
7 Cart	135	bu	2.41	0.85	0.36	2.46	3.11	1.45	10.64	
8 Truck	Custom									
Total for Field Operations			11.71	7.46	10.98	13.41	17.23	17.59	78.38	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate 5# w/Surfactant
2,4-D Ester LV4	Herbicide	1	100%	1 pint	2.63	2.63		
21-0-0-24S	Additive	1	100%	1.7 pound	0.45	0.77		
32-0-0	Fertilizer	2	100%	120 lbs N	0.72	86.40		
Lumax EZ	Herbicide	2	100%	2.7 quart	13.75	37.13		
AAtrex 4L	Herbicide	2	100%	0.5 quart	4.00	2.00		
10-34-0	Fertilizer	3	100%	6 gallon	3.75	22.50		
Sorghum Safened/Insect	Seed	3	100%	4 pound	3.50	14.00		
Huskie	Herbicide	4	50%	11 ounce	0.98	5.37		
21-0-0-24S	Additive	4	50%	1 pound	0.45	0.23		
* Aerial Spray	Custom	5	15%	1 acre	10.00	1.50		
* Mustang Maxx	Insecticide	5	15%	3 ounce	1.48	0.67		
Haul Grain Bushels	Custom	8	100%	135 bushel	0.12	16.20		
Scouting Grain Sorghum	Scouting		100%	1 acre	8.00	8.00		
	Crop Insurance				25.00	25.00		
Total Materials & Services							233.65	

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

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 277.21	cash expense @	5.50%	for 6.0 mo.	7.62
Total Operating and Use Related Ownership Costs				319.65

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

** Real Estate Opportunity [^]	Dryland (State)	\$ 2,366	per acre @	3.00%	70.98
** Real Estate Taxes		\$ 2,366	per acre @	1.25%	29.58

Total Cost per Acre Including Overhead 445.21

Cash Cost per bushel ^{^Ownership and RE Opportunity not included in cash costs.} 2.51
Cost of production per bushel 3.30

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

2022 Budget 48-Grain Sorghum, Southwest, Ecofollow, after Wheat, Two Crops in Three Years, 120 bushel Yield Dryland

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership^		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Post Harvest Burndown Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
2 Spray Fall Burndown Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
3 Spray Fertilizer and Herbicide	1		0.95	0.26	0.13	0.25	1.07	4.31	6.97	
4 No-Till Drill	1		2.29	1.64	0.34	2.97	2.95	6.05	16.24	
5 Spray Herbicide	0.5		0.47	0.13	0.06	0.47	0.54	0.86	2.53	
6 Aerial Spray		Custom								
7 Combine Dryland SG	1		3.93	4.86	9.89	1.67	7.90	4.73	32.98	
8 Cart	120	bu	2.14	0.76	0.32	2.18	2.76	1.29	9.45	
9 Truck		Custom								
Total for Field Operations			11.68	8.17	11.00	9.44	17.36	20.68	78.33	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Glyphosate 5# w/Surfactant	1	100%	32 ounce	0.35	11.25	
2,4-D Ester LV4	1	100%	1 pint	2.63	2.63	
21-0-0-24S	1	100%	1.7 pound	0.45	0.77	
AAtrex 4L	2	100%	1 quart	4.00	4.00	
Gramoxone SL 2.0	2	100%	1.5 pint	2.25	3.38	
32-0-0	3	100%	110 lbs N	0.72	79.20	
Lumax EZ	3	100%	2.7 quart	13.75	37.13	
10-34-0	4	100%	6 gallon	3.75	22.50	
Sorghum Safened/Insect	4	100%	4 pound	3.50	14.00	
Huskie	5	50%	11 ounce	0.98	5.37	
21-0-0-24S	5	50%	1 pound	0.45	0.23	
* Aerial Spray	6	15%	1 acre	10.00	1.50	
* Mustang Maxx	6	15%	3 ounce	1.48	0.67	
Haul Grain Bushels	9	100%	120 bushel	0.12	14.40	
Scouting Grain Sorghum		100%	1 acre	8.00	8.00	
Crop Insurance				29.00	29.00	
Total Materials & Services					234.03	

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

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 274.32 cash expense @ 5.50% for 6.0 mo.

Total Operating and Use Related Ownership Costs

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

** Real Estate Opportunity^	Dryland (Southwest)	\$ 1,012	per acre @	3.00%	30.35
** Real Estate Taxes		\$ 1,012	per acre @	1.25%	12.64

Total Cost per Acre Including Overhead

387.89

Cash Cost per bushel

^Ownership and RE Opportunity not included in cash costs.

2.66

Cost of production per bushel

3.23

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

**2022 Budget 49-Grain Sorghum, No Till, Limited Irrigation, 170 bushel Yield
Pivot Irrigated Diesel, 800 GPM 35 PSI, 6 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Burndown Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
2 Anhydrous Application	1		2.29	1.72	0.34	0.58	2.95	3.63	11.51	
3 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
4 Plant No-Till	1		3.00	1.10	0.41	7.61	3.54	4.52	20.18	
5 Spray Herbicide	0.5		0.47	0.13	0.06	0.47	0.54	0.86	2.53	
6 Aerial Spray	Custom									
7 Pivot D 125' Lift	6	ai	5.21	36.11	2.06	10.38	3.91	5.70	63.37	
8 Combine Irr SG	1		3.93	4.86	9.89	2.93	7.90	4.43	33.94	
9 Cart	170	bu	3.04	1.07	0.46	3.09	3.91	1.82	13.39	
10 Truck	Custom									
Total for Field Operations			19.84	45.51	13.48	26.96	24.89	24.40	155.08	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
2,4-D Ester LV4	Herbicide	1	100%	1 pint	2.63	2.63	
21-0-0-24S	Additive	1	100%	1.7 pound	0.45	0.77	
82-0-0	Fertilizer	2	100%	150 lbs N	0.54	81.00	
Lumax EZ	Herbicide	3	100%	2.7 quart	13.75	37.13	
AAtrex 4L	Herbicide	3	100%	0.5 quart	4.00	2.00	
10-34-0	Fertilizer	4	100%	6 gallon	3.75	22.50	
Sorghum Safened/Insect	Seed	4	100%	6 pound	3.50	21.00	
Huskie	Herbicide	5	50%	11 ounce	0.98	5.37	
21-0-0-24S	Additive	5	50%	1 pound	0.45	0.23	
* Aerial Spray	Custom	6	15%	1 acre	10.00	1.50	
* Mustang Maxx	Insecticide	6	15%	3 ounce	1.48	0.67	
Haul Grain Bushels	Custom	10	100%	170 bushel	0.12	20.40	
Scouting Grain Sorghum	Scouting		100%	1 acre	8.00	8.00	
	Crop Insurance				16.00	16.00	
Total Materials & Services						230.45	

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

Total listed costs for Field Operations and Materials and Services		385.53
Interest on Operations Capital \$ 336.24 cash expense @ 5.50% for 6.0 mo.		9.25
Total Operating and Use Related Ownership Costs		394.78
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)		25.00
** Real Estate Opportunity [^] Pivot (Marginal Land)	\$ 3,239 per acre @ 3.00%	97.17
** Real Estate Taxes	\$ 3,239 per acre @ 1.25%	40.49
Total Cost per Acre Including Overhead		557.44

Cash Cost per bushel	[^] Ownership and RE Opportunity not included in cash costs.	2.42
Cost of production per bushel		3.28

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

2022 Budget 50-Grass, Fall Establishment
Pivot Irrigated Diesel, 800 GPM 35 PSI, 2 acre/inches

	Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Disk	1		2.52	2.46	0.12	1.43	9.40	1.29	17.22	
2	Field Cultivation	1		1.83	1.77	0.28	1.59	2.36	1.80	9.63	
3	Grass Drill	1		3.06	1.55	0.46	6.73	3.94	2.69	18.43	
4	Roll	1		2.08	1.48	0.34	0.00	2.95	0.00	6.85	
5	Pivot D 125' Lift	2	ai	1.74	12.04	0.69	3.46	1.30	1.90	21.13	
6	Spread Fertilizer	1		1.97	0.99	0.33	0.00	2.79	0.00	6.08	
Total for Field Operations				13.20	20.29	2.22	13.21	22.74	7.68	79.34	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
11-52-0	Fertilizer	6	100%	60 pound	0.41	24.60	
Total Materials & Services						104.60	

Total listed costs for Field Operations and Materials and Services							183.94	
Interest on Operations Capital \$ 153.52 cash expense @ 5.50% for 6.0 mo.							4.22	
Total Operating and Use Related Ownership Costs							188.16	
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)							25.00	
Real Estate Opportunity	Fall Establishment	\$ -	per acre @	3.00%		0.00		
Real Estate Taxes		\$ -	per acre @	1.25%		0.00		
Total Cost per Acre Including Overhead							213.16	

2022 Budget 51-Grass Hay, Large Round Bales, 2.2 ton Yield

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.97	0.99	0.33	0.00	2.79	0.00	6.08	
2 Swath/Condition Hay	1		2.50	1.62	0.39	1.19	2.29	0.78	8.77	
3 Bale Large Round	2.2	ton	5.04	1.71	0.76	2.37	6.49	3.16	19.53	
4 Move Large Round	2.2	ton	2.88	1.36	0.43	0.00	3.71	0.18	8.56	
Total for Field Operations			12.39	5.68	1.91	3.56	15.28	4.12	42.94	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							46-0-0
11-52-0	Fertilizer	1	100%	15 pound	0.41	6.15	
Twine Large Round	Other	3	100%	2.2 ton	0.91	2.00	
Pasture, Range, & Forage Insurance	Other		100%	1 acre	1.00	1.00	
Total Materials & Services						39.15	

Total listed costs for Field Operations and Materials and Services 82.09

Interest on Operations Capital \$ 62.69 cash expense @ 5.50% for 6.0 mo.

1.72

Total Operating and Use Related Ownership Costs 83.81

Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests) 25.00

Real Estate Opportunity[^] Dryland (State) \$ 3,380 per acre @ 3.00% 101.40

Real Estate Taxes \$ 3,380 per acre @ 1.25% 42.25

Total Cost per Acre Including Overhead 252.46

Cash Cost per ton ^{^Ownership and RE Opportunity not included in cash costs.} 59.85

Cost of production per ton 114.76

**2022 Budget 52-Millet-Proso, Panhandle, Stubble Mulch Fallow, Followed by Wheat, Two Crops in Three Years, 22 cwt Yield
Dryland**

	Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership^		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
2	Sweep Plow	1		2.20	2.24	0.11	0.81	8.20	1.29	14.85	
3	Rod Weeder	1		1.89	1.31	0.31	0.64	2.68	2.57	9.40	
4	Spray Fertilizer	1		0.95	0.26	0.13	0.25	1.07	4.31	6.97	
5	Drill	1		2.20	1.29	0.33	4.64	2.83	1.58	12.87	
6	Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
7	Windrow Grain	1		2.50	1.62	0.39	1.52	2.29	0.52	8.84	
8	Combine Small Grain	1		3.44	4.24	8.65	1.23	6.91	4.73	29.20	
9	Truck	Custom									
Total for Field Operations				15.08	11.48	10.18	10.99	26.12	18.44	92.29	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate 5# w/Surfactant
2,4-D Ester LV4	Herbicide	1	100%	1.5 pint	2.63	3.94		
21-0-0-24S	Additive	1	100%	1.7 pound	0.45	0.77		
28-0-0	Fertilizer	4	100%	45 lbs N	0.75	33.75		
Millet (Proso)	Seed	5	100%	12 pound	0.60	7.20		
Scorch	Herbicide	6	100%	1 pints	6.88	6.88		
Haul Grain (Millet)	Custom	9	100%	22 cwt	0.24	5.28		
Crop Insurance					8.00	8.00		
Total Materials & Services							77.07	

Total listed costs for Field Operations and Materials and Services 169.36

Interest on Operations Capital \$ 124.80 cash expense @ 5.50% for 6.0 mo. 3.43

Total Operating and Use Related Ownership Costs 172.79

Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests) 25.00

Real Estate Opportunity^ Dryland (Panhandle) \$ 635 per acre @ 3.00% 19.05

Real Estate Taxes \$ 635 per acre @ 1.25% 7.94

Total Cost per Acre Including Overhead 224.78

Cash Cost per cwt ^Ownership and RE Opportunity not included in cash costs. 7.33

Cost of production per cwt 10.22

**2022 Budget 53-Millet-Proso, Panhandle, No Till, 22 cwt Yield
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
2 Spray Fertilizer	1		0.95	0.26	0.13	0.25	1.07	4.31	6.97	
3 No-Till Drill	1		2.29	1.64	0.34	2.97	2.95	6.05	16.24	
4 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
5 Windrow Grain	1		2.50	1.62	0.39	1.52	2.29	0.52	8.84	
6 Combine Small Grain	1		3.44	4.24	8.65	1.23	6.91	4.73	29.20	
7 Truck	Custom									
Total for Field Operations			11.08	8.28	9.77	7.87	15.36	19.05	71.41	

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	0.45	0.77	
28-0-0	Fertilizer	2	100%	45 lbs N	0.75	33.75	
Glyphosate 5# w/Surfactant	Herbicide	2	100%	20 ounce	0.35	7.03	
Scorch	Herbicide	2	100%	1 pints	6.88	6.88	
Millet (Proso)	Seed	3	100%	12 pound	0.60	7.20	
Scorch	Herbicide	4	100%	1 pints	6.88	6.88	
Haul Grain (Millet)	Custom	7	100%	22 cwt	0.24	5.28	
	Crop Insurance				8.00	8.00	

Total Materials & Services 87.04

Total listed costs for Field Operations and Materials and Services

158.45

Interest on Operations Capital \$ 124.04 cash expense @ 5.50% for 6.0 mo.

3.41

Total Operating and Use Related Ownership Costs

161.86

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

25.00

Real Estate Opportunity[^] Dryland (Panhandle) \$ 635 per acre @ 3.00%

19.05

Real Estate Taxes \$ 635 per acre @ 1.25%

7.94

Total Cost per Acre Including Overhead

213.85

Cash Cost per cwt

[^]Ownership and RE Opportunity not included in cash costs.

7.29

Cost of production per cwt

9.72

**2022 Budget 54-Oats, No Till, 85 bushel Yield
Dryland**

Field Operations	Times or Qty	Labor @ Unit	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
				Power	Imp.	Power	Imp.		
1 Spray Fertilizer	1	0.95	0.26	0.13	0.25	1.07	4.31	6.97	
2 No-Till Drill	1	2.29	1.64	0.34	2.97	2.95	6.05	16.24	
3 Spray Herbicide	1	0.95	0.26	0.13	0.95	1.07	1.72	5.08	
4 Combine Small Grain	1	3.44	4.24	8.65	1.23	6.91	4.73	29.20	
5 Truck	Custom								
Total for Field Operations		7.63	6.40	9.25	5.40	12.00	16.81	57.49	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Oats	Seed	2	100%	2 bushel	11.00	22.00
10-34-0	Fertilizer	2	100%	6 gallon	3.75	22.50
Aim 2EC	Herbicide	3	100%	0.5 ounce	6.25	3.13
NIS	Additive	3	100%	6 ounce	0.16	0.94
2,4-D Amine	Herbicide	3	100%	1 pint	2.25	2.25
Haul Grain Bushels	Custom	5	100%	85 bushel	0.12	10.20
Crop Insurance					12.00	12.00
Total Materials & Services					148.02	

Total listed costs for Field Operations and Materials and Services 205.51

Interest on Operations Capital \$ 176.70 cash expense @ 5.50% for 6.0 mo.

4.86

Total Operating and Use Related Ownership Costs 210.37

Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests) 25.00

Real Estate Opportunity[^] Dryland (State) \$ 3,380 per acre @ 3.00% 101.40

Real Estate Taxes \$ 3,380 per acre @ 1.25% 42.25

Total Cost per Acre Including Overhead 379.02

Cash Cost per bushel [^]Ownership and RE Opportunity not included in cash costs. 2.93

Cost of production per bushel 4.46

2022 Budget 55-Pasture, Grazing, 11 AUM Yield
Pivot Irrigated Diesel, 800 GPM 35 PSI, 18 acre/inches

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Pivot D 125' Lift w/fertigation	18	ai	20.83	108.32	6.17	8.00	11.72	17.09	172.13	
Total for Field Operations			20.83	108.32	6.17	8.00	11.72	17.09	172.13	
Materials & Services										
				Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
28-0-0		Fertilizer		1	100%	220 lbs N	0.75	165.00		
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	25.00	25.00		
Pasture, Range, & Forage Insurance		Other			100%	1 acre	1.00	1.00		
Total Materials & Services								195.00		
Total listed costs for Field Operations and Materials and Services								367.13		
Interest on Operations Capital \$ 338.32 cash expense @ 5.50% for 6.0 mo.								9.30		
Total Operating and Use Related Ownership Costs								376.43		
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)								25.00		
Real Estate Opportunity [^]		Pivot (Marginal Land)	\$ 4,627		per acre @		3.00%	138.81		
Real Estate Taxes			\$ 4,627		per acre @		1.25%	57.84		
Total Cost per Acre Including Overhead								598.08		
Cash Cost per AUM								39.13		
Cost of production per AUM								54.37		

[^]Ownership and RE Opportunity not included in cash costs.

**2022 Budget 56-Peas, Panhandle, No Till, 35 bushel Yield
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 No-Till Drill	1		2.29	1.64	0.34	2.97	2.95	6.05	16.24	
2 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
3 Combine Small Grain	1		3.44	4.24	8.65	1.23	6.91	4.73	29.20	
4 Truck	Custom									
Total for Field Operations			6.68	6.14	9.12	5.15	10.93	12.50	50.52	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Peas
Pea Seed Inoculant	Inoculant	1	100%	1 acre	8.00	8.00		
Sharpen	Herbicide	2	100%	2 ounce	6.64	13.28		
Glyphosate 5# w/Surfactant	Herbicide	2	100%	32 ounce	0.35	11.25		
21-0-0-24S	Additive	2	100%	1.7 pound	0.45	0.77		
Haul Grain Bushels	Custom	4	100%	35 bushel	0.12	4.20		
	Crop Insurance				13.00	13.00		
Total Materials & Services							107.50	

Total listed costs for Field Operations and Materials and Services 158.02

Interest on Operations Capital \$ 134.59 cash expense @ 5.50% for 6.0 mo. 3.70

Total Operating and Use Related Ownership Costs 161.72

Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests) 25.00

Real Estate Opportunity[^] Dryland (Panhandle) \$ 635 per acre @ 3.00% 19.05

Real Estate Taxes \$ 635 per acre @ 1.25% 7.94

Total Cost per Acre Including Overhead 213.71

Cash Cost per bushel ^{^Ownership and RE Opportunity not included in cash costs.} 4.89

Cost of production per bushel 6.11

**2022 Budget 57-Sorghum-Sudan, Annually Planted, Conventional Tillage, Large Round Bales, 5 ton Yield
Dryland**

Field Operations		Times or Qty	Labor @ Unit	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate	
					Power	Imp.	Power	Imp.			
1	Disk	1		2.52	2.46	0.12	1.43	9.40	1.29	17.22	
2	Spray Fertilizer	1		0.95	0.26	0.13	0.25	1.07	4.31	6.97	
3	Field Cultivation	1		1.83	1.77	0.28	1.59	2.36	1.80	9.63	
4	Drill	1		2.20	1.29	0.33	4.64	2.83	1.58	12.87	
5	Swath/Condition Hay	1		2.50	1.62	0.39	1.19	2.29	0.78	8.77	
6	Bale Large Round	5	ton	11.46	3.89	1.72	5.38	14.76	7.19	44.40	
7	Move Large Round	5	ton	6.55	3.09	0.99	0.00	8.43	0.42	19.48	
Total for Field Operations				28.01	14.38	3.96	14.48	41.14	17.37	119.34	
Materials & Services				Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate		
28-0-0		Fertilizer		2	100%	60 lbs N	0.75	45.00			
Sorghum Sudan		Seed		4	100%	10 pound	0.90	9.00			
Twine Large Round		Other		6	100%	5 ton	0.91	4.55			
Total Materials & Services								58.55			
Total listed costs for Field Operations and Materials and Services									177.89		
Interest on Operations Capital				\$ 119.38	cash expense @	5.50%	for 6.0 mo.		3.28		
Total Operating and Use Related Ownership Costs									181.17		
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)									25.00		
Real Estate Opportunity [^]		Dryland (State)		\$ 3,380	per acre @	3.00%		101.40			
Real Estate Taxes				\$ 3,380	per acre @	1.25%		42.25			
Total Cost per Acre Including Overhead									349.82		
Cash Cost per ton									37.98		
Cost of production per ton									69.96		

2022 Budget 58-Soybeans, Roundup Ready 2 Yield®, Conventional Tillage, after Corn, 45 bushel Yield Dryland

	Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership^		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Disk	1		2.52	2.46	0.12	1.43	9.40	1.29	17.22	
2	Field Cultivation	1		1.83	1.77	0.28	1.59	2.36	1.80	9.63	
3	Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
4	Plant	1		3.00	0.89	0.41	5.28	3.54	3.13	16.25	
5	Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
6	Aerial Spray	Custom									
7	Combine Dryland SB	1		3.93	4.86	9.89	1.76	7.90	4.98	33.32	
8	Truck	Custom									
Total for Field Operations				13.18	10.50	10.96	11.96	25.34	14.64	86.58	

	Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
RR2 Soybeans	Seed	4	100%	1 bag	60.00	60.00		
Soybean Seed Inoculant	Inoculant	4	100%	1 acre	7.00	7.00		
Glyphosate 5# w/Surfactant	Herbicide	5	100%	32 ounce	0.35	11.25		
Select Max	Herbicide	5	75%	6 ounce	0.84	3.80		
FlexStar GT	Herbicide	5	100%	3 pints	5.00	15.00		
21-0-0-24S	Additive	5	100%	1.7 pound	0.45	0.77		
Aerial Spray	Custom	6	20%	1 acre	10.00	2.00		
* Warrior II/Zeon	Insecticide	6	20%	1.6 ounce	2.97	0.95		
Haul Grain Bushels	Custom	8	100%	45 bushel	0.12	5.40		
Scouting Dryland Soybeans	Scouting		100%	1 acre	8.00	8.00		
	Crop Insurance				30.00	30.00		
Total Materials & Services							166.73	

* Insecticide for Aphids and Caterpillars

Total listed costs for Field Operations and Materials and Services 253.31

Interest on Operations Capital \$ 213.33 cash expense @ 5.50% for 6.0 mo. 5.87

Total Operating and Use Related Ownership Costs 259.18

Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests) 25.00

Real Estate Opportunity^ Dryland (State) \$ 3,380 per acre @ 3.00% 101.40

Real Estate Taxes \$ 3,380 per acre @ 1.25% 42.25

Total Cost per Acre Including Overhead 427.83

Cash Cost per bushel ^Ownership and RE Opportunity not included in cash costs. 6.37

Cost of production per bushel 9.51

~See benefits of soybeans in a corn/soybean rotation

2022 Budget 59-Soybeans, Roundup Ready 2 Yield®, No Till, after Corn, 50 bushel Yield Dryland

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Burndown Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
2 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
3 Plant No-Till	1		3.00	1.10	0.41	7.61	3.54	4.52	20.18	
4 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
5 Aerial Spray	Custom									
6 Combine Dryland SB	1		3.93	4.86	9.89	1.76	7.90	4.98	33.32	
7 Truck	Custom									
Total for Field Operations			9.78	6.74	10.69	12.22	14.65	14.66	68.74	

Materials & Services			Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
* 2,4-D Ester LV4	Herbicide	1	100%	1 pint	2.63	2.63		
21-0-0-24S	Additive	1	100%	1.7 pound	0.45	0.77		
Authority MTZ	Herbicide	2	100%	16 ounce	2.50	40.00		
* 2,4-D Ester LV4	Herbicide	2	100%	1 pint	2.63	2.63		
Glyphosate 5# w/Surfactant	Herbicide	2	100%	32 ounce	0.35	11.25		
21-0-0-24S	Additive	2	100%	1.7 pound	0.45	0.77		
RR2 Soybeans	Seed	3	100%	1 bag	60.00	60.00		
Soybean Seed Inoculant	Inoculant	3	100%	1 acre	7.00	7.00		
Glyphosate 5# w/Surfactant	Herbicide	4	100%	32 ounce	0.35	11.25		
Select Max	Herbicide	4	75%	6 ounce	0.84	3.80		
Warrant Ultra	Herbicide	4	100%	48 ounce	0.47	22.50		
21-0-0-24S	Additive	4	100%	1.7 pound	0.45	0.77		
Aerial Spray	Custom	5	20%	1 acre	10.00	2.00		
** Warrior II/Zeon	Insecticide	5	20%	1.6 ounce	2.97	0.95		
Haul Grain Bushels	Custom	6	100%	50 bushel	0.12	6.00		
Scouting Dryland Soybeans	Scouting		100%	1 acre	8.00	8.00		
	Crop Insurance				30.00	30.00		
Total Materials & Services							221.57	

* Minimum 7 days prior to planting

** Insecticide for Aphids and Caterpillars

Total listed costs for Field Operations and Materials & Services		290.31
Interest on Operations Capital \$ 261.00 cash expense @ 5.50% for 6.0 mo.		7.18

Total Operating and Use Related Ownership Costs		297.49
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Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)		25.00
Real Estate Opportunity [^] Dryland (State)	\$ 3,380 per acre @ 3.00%	101.40
Real Estate Taxes	\$ 3,380 per acre @ 1.25%	42.25

Total Cost per Acre Including Overhead		466.14
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Cash Cost per bushel	[^] Ownership and RE Opportunity not included in cash costs.	6.71
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Cost of production per bushel		9.32
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~See benefits of soybeans in a corn/soybean rotation

**2022 Budget 60-Soybeans, Roundup Ready 2 Yield®, No Till, Continuous, 45 bushel Yield
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Burndown Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
2 Plant No-Till	1		3.00	1.10	0.41	7.61	3.54	4.52	20.18	
3 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
4 Aerial Spray	Custom									
5 Combine Dryland SB	1		3.93	4.86	9.89	1.76	7.90	4.98	33.32	
6 Truck	Custom									
Total for Field Operations			8.83	6.48	10.56	11.27	13.58	12.94	63.66	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Fierce MTZ	Herbicide	1	100%	1.25 pint	30.00	37.50
* 2,4-D Ester LV4	Herbicide	1	100%	1 pint	2.63	2.63
Glyphosate 5# w/Surfactant	Herbicide	1	100%	32 ounce	0.35	11.25
21-0-0-24S	Additive	1	100%	1.7 pound	0.45	0.77
RR2 Soybeans	Seed	2	100%	1 bag	60.00	60.00
Soybean Seed Inoculant	Inoculant	2	100%	1 acre	7.00	7.00
Extreme	Herbicide	3	100%	3 pint	2.50	7.50
21-0-0-24S	Additive	3	100%	1.7 pound	0.45	0.77
Aerial Spray	Custom	4	20%	1 acre	10.00	2.00
** Warrior II/Zeon	Insecticide	4	20%	1.6 ounce	2.97	0.95
Haul Grain Bushels	Custom	6	100%	45 bushel	0.12	5.40
Scouting Dryland Soybeans	Scouting		100%	1 acre	8.00	8.00
Crop Insurance					30.00	30.00
Total Materials & Services						173.77

* Minimum 7 days prior to planting

** Insecticide for Aphids and Caterpillars

Total listed costs for Field Operations and Materials and Services 237.43

Interest on Operations Capital \$ 210.91 cash expense @ 5.50% for 6.0 mo. 5.80

Total Operating and Use Related Ownership Costs 243.23

Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests) 25.00

Real Estate Opportunity[^] Dryland (State) \$ 3,380 per acre @ 3.00% 101.40

Real Estate Taxes \$ 3,380 per acre @ 1.25% 42.25

Total Cost per Acre Including Overhead 411.88

Cash Cost per bushel ^{^Ownership and RE Opportunity not included in cash costs.} 6.31

Cost of production per bushel 9.15

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

**2022 Budget 61-Soybeans, Roundup Ready 2 Yield®, Conventional Tillage, after Corn, 67 bushel Yield
Pivot Irrigated Diesel, 800 GPM 35 PSI, 9 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.52	2.46	0.12	1.43	9.40	1.29	17.22	
2 Field Cultivation	1		1.83	1.77	0.28	1.59	2.36	1.80	9.63	
3 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
4 Plant	1		3.00	0.89	0.41	5.28	3.54	3.13	16.25	
5 Pivot D 125' Lift	9	ai	7.81	54.16	3.09	15.56	5.86	8.54	95.02	
6 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
7 Aerial Spray	Custom									
8 Aerial Spray	Custom									
9 Combine Irr SB	1		4.58	5.68	11.54	2.88	9.21	5.71	39.60	
10 Truck	Custom									
Total for Field Operations			21.64	65.48	15.70	28.64	32.51	23.91	187.88	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Authority Supreme
RR2 Soybeans	Seed	4	100%	1 bag	60.00	60.00		
Soybean Seed Inoculant	Inoculant	4	100%	1 acre	7.00	7.00		
Glyphosate 5# w/Surfactant	Herbicide	6	100%	32 ounce	0.35	11.25		
Select Max	Herbicide	6	75%	6 ounce	0.84	3.80		
Warrant Ultra	Herbicide	6	100%	48 ounce	0.47	22.50		
21-0-0-24S	Additive	6	100%	1.7 pound	0.45	0.77		
Aerial Spray	Custom	7	20%	1 acre	10.00	2.00		
* Warrior II/Zeon	Insecticide	7	20%	1.6 ounce	2.97	0.95		
Aerial Spray	Custom	8	20%	1 acre	10.00	2.00		
Priaxor	Fungicide	8	20%	4 ounce	4.69	3.75		
Haul Grain Bushels	Custom	10	100%	67 bushel	0.12	8.04		
Scouting Irrigated Soybeans	Scouting		100%	1 acre	13.00	13.00		
	Crop Insurance				8.00	8.00		
Total Materials & Services							167.90	

* Insecticide for Aphids and Caterpillars

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 299.36 cash expense @ 5.50% for 6.0 mo. 355.78

Total Operating and Use Related Ownership Costs 8.23

Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests) 25.00

Real Estate Opportunity[^] Pivot (State) \$ 6,610 per acre @ 3.00% 198.30

Real Estate Taxes \$ 6,610 per acre @ 1.25% 82.63

Total Cost per Acre Including Overhead 669.94

Cash Cost per bushel ^{^Ownership and RE Opportunity not included in cash costs.} 6.20

Cost of production per bushel 10.00

~See benefits of soybeans in a corn/soybean rotation

**2022 Budget 62-Soybeans, Roundup Ready 2 Yield®, Ridge Till, after Corn, 70 bushel Yield
Gravity Irrigated Diesel, fed by a well, 12 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Burndown Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
2 Ridge Plant and Band Herbicide	1		3.00	1.11	0.41	5.28	3.54	3.27	16.61	
3 Ridge Cultivation	1		2.50	1.73	0.41	2.12	3.54	2.41	12.71	
4 Ridge Cultivate/Ditch	1		2.29	1.44	0.34	0.87	2.95	3.61	11.50	
5 Pipe D 125' Lift	12	ai	27.78	52.41	1.10	1.60	2.46	2.60	87.95	
6 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
7 Aerial Spray	Custom									
8 Aerial Spray	Custom									
9 Combine Irr SB	1		4.58	5.68	11.54	2.88	9.21	5.71	39.60	
10 Truck	Custom									
Total for Field Operations			42.05	62.89	14.06	14.65	23.84	21.04	178.53	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
* 2,4-D Ester LV4	Herbicide	1	100%	1 pint	2.63	2.63
21-0-0-24S	Additive	2	100%	1.7 pound	0.45	0.77
Zidua Pro	Herbicide	2	33%	5.25 ounce	4.30	7.44
RR2 Soybeans	Seed	2	100%	1 bag	60.00	60.00
Soybean Seed Inoculant	Inoculant	2	100%	1 acre	7.00	7.00
Glyphosate 5# w/Surfactant	Herbicide	6	50%	32 ounce	0.35	5.63
21-0-0-24S	Additive	6	50%	1.7 pound	0.45	0.38
Select Max	Herbicide	6	75%	6 ounce	0.84	3.80
FlexStar GT	Herbicide	6	100%	3 pints	5.00	15.00
Crop Oil Concentrate	Additive	6	100%	2 pint	1.88	3.75
Aerial Spray	Custom	7	20%	1 acre	10.00	2.00
** Warrior II/Zeon	Insecticide	7	20%	1.6 ounce	2.97	0.95
Aerial Spray	Custom	8	20%	1 acre	10.00	2.00
Stratego YLD	Fungicide	8	20%	4 ounce	4.69	3.75
Haul Grain Bushels	Custom	10	100%	70 bushel	0.12	8.40
Scouting Irrigated Soybeans	Scouting		100%	1 acre	13.00	13.00
Crop Insurance					8.00	8.00
Total Materials & Services						155.75

* Minimum 7 days prior to planting

** Insecticide for Aphids and Caterpillars

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 289.40 cash expense @ 5.50% for 6.0 mo.

Total Operating and Use Related Ownership Costs

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

Real Estate Opportunity[^] Gravity (State) \$ 6,095 per acre @ 3.00%
Real Estate Taxes \$ 6,095 per acre @ 1.25%

Total Cost per Acre Including Overhead

Cash Cost per bushel

[^]Ownership and RE Opportunity not included in cash costs.

Cost of production per bushel

~See benefits of soybeans in a corn/soybean rotation

**2022 Budget 63-Soybeans, Roundup Ready 2 Xtend® Treated, No Till, Narrow Row after Corn, 75 bushel Yield
Pivot Irrigated Diesel, 800 GPM 35 PSI, 6 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Burndown Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
2 Plant Narrow Row	1		3.00	0.84	0.41	5.28	3.54	3.13	16.20	
3 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
4 Aerial Spray	Custom									
5 Aerial Spray	Custom									
6 Pivot D 125' Lift	6	ai	5.21	36.11	2.06	10.38	3.91	5.70	63.37	
7 Combine Irr SB	1		4.58	5.68	11.54	2.88	9.21	5.71	39.60	
8 Truck	Custom									
Total for Field Operations			14.69	43.15	14.27	20.44	18.80	17.98	129.33	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate 5# w/Surfactant
Engenia	Herbicide	1	100%	12.8 ounce	0.94	12.00		
21-0-0-24S	Additive	1	100%	1.7 pound	0.45	0.77		
Authority MTZ	Herbicide	1	100%	16 ounce	2.50	40.00		
RR2 Soybeans Xtend Treated	Seed	2	100%	1 bag	74.00	74.00		
Soybean Seed Inoculant	Inoculant	2	100%	1 acre	7.00	7.00		
Engenia	Herbicide	3	100%	12.8 ounce	0.94	12.00		
Glyphosate 5# w/Surfactant	Herbicide	3	100%	32 ounce	0.35	11.25		
Select Max	Herbicide	3	75%	6 ounce	0.84	3.80		
Approved adjuvant	Additive	3	100%	1 acre	2.00	2.00		
Aerial Spray	Custom	4	20%	1 acre	10.00	2.00		
* Warrior II/Zcon	Insecticide	4	20%	1.6 ounce	2.97	0.95		
Aerial Spray	Custom	5	20%	1 acre	10.00	2.00		
Quilt Xcel	Fungicide	5	20%	10.5 ounce	1.80	3.77		
Haul Grain Bushels	Custom	8	100%	75 bushel	0.12	9.00		
Scouting Irrigated Soybeans	Scouting		100%	1 acre	13.00	13.00		
Crop Insurance					8.00	8.00		
Total Materials & Services							212.79	

* Insecticide for Aphids and Caterpillars

Total listed costs for Field Operations and Materials and Services 342.12

Interest on Operations Capital \$ 305.34 cash expense @ 5.50% for 6.0 mo. 8.40

Total Operating and Use Related Ownership Costs 350.52

Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests) 25.00

Real Estate Opportunity[^] Pivot (State) \$ 6,610 per acre @ 3.00% 198.30

Real Estate Taxes \$ 6,610 per acre @ 1.25% 82.63

Total Cost per Acre Including Overhead 656.45

Cash Cost per bushel ^{^Ownership and RE Opportunity not included in cash costs.} 5.62

Cost of production per bushel 8.75

~See benefits of soybeans in a corn/soybean rotation

**2022 Budget 64-Soybeans, Roundup Ready 2 Yield® Treated, No Till, Narrow Row, Continuous, 64 bushel Yield
Pivot Irrigated Diesel, 800 GPM 35 PSI, 6 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Burndown Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
2 Plant Narrow Row	1		3.00	0.84	0.41	5.28	3.54	3.13	16.20	
3 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
4 Aerial Spray	Custom									
5 Aerial Spray	Custom									
6 Pivot D 125' Lift	6	ai	5.21	36.11	2.06	10.38	3.91	5.70	63.37	
7 Combine Irr SB	1		4.58	5.68	11.54	2.88	9.21	5.71	39.60	
8 Truck	Custom									
Total for Field Operations			14.69	43.15	14.27	20.44	18.80	17.98	129.33	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate 5# w/Surfactant
* 2,4-D Ester LV4	Herbicide	1	100%	1 pint	2.63	2.63		
21-0-0-24S	Additive	1	100%	1.7 pound	0.45	0.77		
Fierce MTZ	Herbicide	1	100%	1.25 pint	30.00	37.50		
RR2 Soybeans Treated	Seed	2	100%	1 bag	72.00	72.00		
Soybean Seed Inoculant	Inoculant	2	100%	1 acre	7.00	7.00		
Roundup PowerMax	Herbicide	3	100%	32 ounce	0.44	14.00		
21-0-0-24S	Additive	3	100%	1.7 pound	0.45	0.77		
Aerial Spray	Custom	4	20%	1 acre	10.00	2.00		
** Warrior II/Zeon	Insecticide	4	20%	1.6 ounce	2.97	0.95		
Aerial Spray	Custom	5	20%	1 acre	10.00	2.00		
Priaxor	Fungicide	5	20%	4 ounce	4.69	3.75		
Haul Grain Bushels	Custom	8	100%	64 bushel	0.12	7.68		
Scouting Irrigated Soybeans	Scouting		100%	1 acre	13.00	13.00		
	Crop Insurance				8.00	8.00		
Total Materials & Services							183.30	

* Minimum 7 days prior to planting

** Insecticide for Aphids and Caterpillars

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 275.85 cash expense @ 5.50% for 6.0 mo.

Total Operating and Use Related Ownership Costs

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

Real Estate Opportunity[^] Pivot (State) \$ 6,610 per acre @ 3.00%
Real Estate Taxes \$ 6,610 per acre @ 1.25%

Total Cost per Acre Including Overhead

Cash Cost per bushel

Cost of production per bushel

[^]Ownership and RE Opportunity not included in cash costs.

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

**2022 Budget 65-Soybeans, LibertyLink® Treated, No Till Drilled 7.5-inch Rows, after Corn, 78 bushel Yield
Pivot Irrigated Diesel, 800 GPM 35 PSI, 6 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Burndown Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
2 No-Till Drill	1		2.29	1.64	0.34	2.97	2.95	6.05	16.24	
3 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
4 Aerial Spray	Custom									
5 Aerial Spray	Custom									
6 Pivot D 125' Lift	6	ai	5.21	36.11	2.06	10.38	3.91	5.70	63.37	
7 Combine Irr SB	1		4.58	5.68	11.54	2.88	9.21	5.71	39.60	
8 Truck	Custom									
Total for Field Operations			13.98	43.95	14.20	18.13	18.21	20.90	129.37	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate 5# w/Surfactant
* 2,4-D Ester LV4	Herbicide	1	100%	1 pint	2.63	2.63		
21-0-0-24S	Additive	1	100%	1.7 pound	0.45	0.77		
Zidua Pro	Herbicide	1	100%	5.25 ounce	4.30	22.56		
Soybeans - LiberyLink Treated	Seed	2	100%	1 k seed	72.00	72.00		
Soybean Seed Inoculant	Inoculant	2	100%	1 acre	7.00	7.00		
Liberty	Herbicide	3	100%	43 ounce	0.39	16.80		
AMS	Additive	3	100%	48 ounce	0.03	1.47		
Select Max	Herbicide	3	75%	6 ounce	0.84	3.80		
Approved adjuvant	Additive	3	100%	1 acre	2.00	2.00		
Aerial Spray	Custom	4	20%	1 acre	10.00	2.00		
** Warrior II/Zeon	Insecticide	4	20%	1.6 ounce	2.97	0.95		
Aerial Spray	Custom	5	30%	1 acre	10.00	3.00		
Stratego YLD	Fungicide	5	30%	4 ounce	4.69	5.63		
Haul Grain Bushels	Custom	8	100%	78 bushel	0.12	9.36		
Scouting Irrigated Soybeans	Scouting		100%	1 acre	13.00	13.00		
	Crop Insurance				8.00	8.00		
Total Materials & Services							182.22	

* Minimum 7 days prior to planting

** Insecticide for Aphids and Caterpillars

Total listed costs for Field Operations and Materials and Services		311.59
Interest on Operations Capital \$ 272.48 cash expense @ 5.50% for 6.0 mo.		7.49
Total Operating and Use Related Ownership Costs		319.08
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)		25.00
Real Estate Opportunity [^] Pivot (State)	\$ 6,610 per acre @ 3.00%	198.30
Real Estate Taxes	\$ 6,610 per acre @ 1.25%	82.63
Total Cost per Acre Including Overhead		625.01

Cash Cost per bushel	[^] Ownership and RE Opportunity not included in cash costs.	4.97
Cost of production per bushel		8.01

~See benefits of soybeans in a corn/soybean rotation

**2022 Budget 66-Soybeans, Enlist E3™ Treated, No Till Drilled 7.5-inch Rows, after Corn, 78 bushel Yield
Pivot Irrigated Diesel, 800 GPM 35 PSI, 6 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Burndown Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
2 No-Till Drill	1		2.29	1.64	0.34	2.97	2.95	6.05	16.24	
3 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
4 Aerial Spray	Custom									
5 Aerial Spray	Custom									
6 Pivot D 125' Lift	6	ai	5.21	36.11	2.06	10.38	3.91	5.70	63.37	
7 Combine Irr SB	1		4.58	5.68	11.54	2.88	9.21	5.71	39.60	
8 Truck	Custom									
Total for Field Operations			13.98	43.95	14.20	18.13	18.21	20.90	129.37	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Glyphosate 5# w/Surfactant	Herbicide	1	100%	32 ounce	0.35	11.25
Enlist One	Herbicide	1	100%	1.5 pint	6.25	9.38
21-0-0-24S	Additive	1	100%	1.7 pound	0.45	0.77
Authority Supreme	Herbicide	1	100%	6 ounce	4.14	24.84
Soybeans Enlist E3 Treated	Seed	2	100%	1 k seed	72.00	72.00
Soybean Seed Inoculant	Inoculant	2	100%	1 acre	7.00	7.00
Enlist DUO	Herbicide	3	100%	76 ounce	0.23	17.81
Liberty	Herbicide	3	50%	43 ounce	0.39	8.40
Select Max	Herbicide	3	75%	6 ounce	0.84	3.80
Approved adjuvant	Additive	3	75%	1 acre	2.00	1.50
Aerial Spray	Custom	4	20%	1 acre	10.00	2.00
* Warrior II/Zeon	Insecticide	4	20%	1.6 ounce	2.97	0.95
Aerial Spray	Custom	5	20%	1 acre	10.00	2.00
Stratego YLD	Fungicide	5	20%	4 ounce	4.69	3.75
Haul Grain Bushels	Custom	8	100%	78 bushel	0.12	9.36
Scouting Irrigated Soybeans	Scouting		100%	1 acre	13.00	13.00
	Crop Insurance				8.00	8.00
Total Materials & Services						195.81

* Insecticide for Aphids and Caterpillars

Total listed costs for Field Operations and Materials and Services						325.18
Interest on Operations Capital \$ 286.07	cash expense @	5.50%	for 6.0 mo.			7.87
Total Operating and Use Related Ownership Costs						333.05
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)						25.00
Real Estate Opportunity [^]	Pivot (State)	\$ 6,610	per acre @	3.00%		198.30
Real Estate Taxes		\$ 6,610	per acre @	1.25%		82.63
Total Cost per Acre Including Overhead						638.98
Cash Cost per bushel	[^] Ownership and RE Opportunity not included in cash costs.					5.15
Cost of production per bushel						8.19

~See benefits of soybeans in a corn/soybean rotation

**2022 Budget 67-Soybeans, Roundup Ready 2 Xtend® Treated, No Till Drilled 7.5-inch Rows, after Corn, 78 bushel Yield
Pivot Irrigated Diesel, 800 GPM 35 PSI, 6 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Burndown Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
2 No-Till Drill	1		2.29	1.64	0.34	2.97	2.95	6.05	16.24	
3 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
4 Aerial Spray	Custom									
5 Aerial Spray	Custom									
6 Pivot D 125' Lift	6	ai	5.21	36.11	2.06	10.38	3.91	5.70	63.37	
7 Combine Irr SB	1		4.58	5.68	11.54	2.88	9.21	5.71	39.60	
8 Truck	Custom									
Total for Field Operations			13.98	43.95	14.20	18.13	18.21	20.90	129.37	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate 5# w/Surfactant
XtendiMax	Herbicide	1	100%	22 ounce	0.47	10.31		
21-0-0-24S	Additive	1	100%	1.7 pound	0.45	0.77		
Zidua Pro	Herbicide	1	100%	5.25 ounce	4.30	22.56		
RR2 Soybeans Xtend Treated	Seed	2	100%	1 bag	74.00	74.00		
Soybean Seed Inoculant	Inoculant	2	100%	1 acre	7.00	7.00		
XtendiMax	Herbicide	3	100%	22 ounce	0.47	10.31		
Glyphosate 5# w/Surfactant	Herbicide	3	100%	32 ounce	0.35	11.25		
Select Max	Herbicide	3	75%	6 ounce	0.84	3.80		
Approved adjuvant	Additive	3	100%	1 acre	2.00	2.00		
Aerial Spray	Custom	4	20%	1 acre	10.00	2.00		
* Warrior II/Zeon	Insecticide	4	20%	1.6 ounce	2.97	0.95		
Aerial Spray	Custom	5	30%	1 acre	10.00	3.00		
Quilt Xcel	Fungicide	5	30%	10.5 ounce	1.80	5.66		
Haul Grain Bushels	Custom	8	100%	78 bushel	0.12	9.36		
Scouting Irrigated Soybeans	Scouting		100%	1 acre	13.00	13.00		
	Crop Insurance				8.00	8.00		
Total Materials & Services							195.22	

* Insecticide for Aphids and Caterpillars

Total listed costs for Field Operations and Materials and Services 324.59

Interest on Operations Capital \$ 285.48 cash expense @ 5.50% for 6.0 mo. 7.85

Total Operating and Use Related Ownership Costs 332.44

Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests) 25.00

Real Estate Opportunity[^] Pivot (State) \$ 6,610 per acre @ 3.00% 198.30

Real Estate Taxes \$ 6,610 per acre @ 1.25% 82.63

Total Cost per Acre Including Overhead 638.37

Cash Cost per bushel ^{^Ownership and RE Opportunity not included in cash costs.} 5.14

Cost of production per bushel 8.18

~See benefits of soybeans in a corn/soybean rotation

**2022 Budget 68-Sugarbeet, Roundup Ready®, Panhandle, One Pass Zone-Tillage, 30 ton Yield
Gravity Irrigated, fed by canal, 20 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.52	2.46	0.12	1.43	9.40	1.29	17.22	
2 Spray Fertilizer	1		0.95	0.26	0.13	0.25	1.07	4.31	6.97	
3 Spray Herbicide	Custom									
4 Plant	1		3.00	0.89	0.41	5.28	3.54	3.13	16.25	
5 Rotary Hoe	1		1.88	0.81	0.28	0.39	2.42	1.31	7.09	
6 Row Crop Cultivation	1		2.50	1.03	0.38	1.06	3.22	3.61	11.80	
7 Ridge Cultivate/Ditch	1		2.29	1.44	0.34	0.87	2.95	3.61	11.50	
8 Spray Herbicide	Custom									
9 Ditch Irrigation	20	ai	27.78	0.00	2.29	0.00	5.12	0.00	35.19	
10 Spray Herbicide	Custom									
11 Aerial Spray	Custom									
12 Aerial Spray	Custom									
13 Top Beets	1		4.32	1.96	0.71	6.67	6.12	3.99	23.77	
14 Lift Beets	1		4.58	3.35	0.22	24.41	17.09	9.04	58.69	
15 Truck	Custom									
16 Subsoil / One-pass Tillage	1		2.78	2.97	0.15	3.25	11.39	4.6	25.14	
Total for Field Operator			52.6	15.17	5.03	43.61	62.32	34.89	213.62	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
10-34-0	Fertilizer	2	100%	13.4 gallon	3.75	50.25
28-0-0	Fertilizer	2	100%	125 lbs N	0.75	93.75
Spray	Custom	3, 8, 10	300%	1 acre	7.50	22.50
Glyphosate 5# w/Surfactant	Herbicide	3	100%	36 ounce	0.35	12.66
21-0-0-24S	Additive	3	100%	1.7 pound	0.45	0.77
Sugar Beets RR Poncho	Seed	4	100%	1 acre	180.00	180.00
Glyphosate 5# w/Surfactant	Herbicide	8	100%	36 ounce	0.35	12.66
21-0-0-24S	Additive	8	100%	1.7 pound	0.45	0.77
Irrigation District O&M Charge	Other	9	100%	1 acre	35.00	35.00
Glyphosate 5# w/Surfactant	Herbicide	10	100%	36 ounce	0.35	12.66
21-0-0-24S	Additive	10	100%	1.7 pound	0.45	0.77
Aerial Spray	Custom	11	100%	1 acre	10.00	10.00
Quadris	Fungicide	11	100%	7 ounce	1.88	13.13
Aerial Spray	Custom	12	50%	1 acre	10.00	5.00
Proline 480 SC	Fungicide	12	50%	5 ounce	5.39	13.48
Haul Beets	Custom	15	100%	30 ton	4.00	120.00
Scouting Sugar Beets	Scouting		100%	1 acre	17.00	17.00
Crop Insurance					42.00	42.00
Total Materials & Services						642.40

Total listed costs for Field Operations and Materials and Services 856.02
 Interest on Operations Capital \$ 758.81 cash expense @ 5.50% for 6.0 mo. 20.87
Total Operating and Use Related Ownership Costs 876.89

Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests) 25.00
 Real Estate Opportunity[^] Gravity (Panhandle) \$ 2,135 per acre @ 3.00% 64.05
 Real Estate Taxes \$ 2,135 per acre @ 1.25% 26.69
Total Cost per Acre Including Overhead 992.63

Cash Cost per ton ^{^Ownership and RE Opportunity not included in cash costs.} 27.71
Cost of production per ton 33.09

**2022 Budget 69-Sugarbeet, Roundup Ready®, Panhandle, Conventional Tillage, 30 ton Yield
Gravity Irrigated, fed by canal, 20 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.52	2.46	0.12	1.43	9.40	1.29	17.22	
2 Spray Fertilizer	1		0.95	0.26	0.13	0.25	1.07	4.31	6.97	
3 Spray Herbicide	Custom									
4 Plow	1		3.67	2.59	0.18	0.96	13.67	0.58	21.65	
5 Roller Harrow	1		2.50	1.62	0.41	0.98	3.54	2.84	11.89	
6 Plant	1		3.00	0.89	0.41	5.28	3.54	3.13	16.25	
7 Field Cultivation	2		3.67	3.54	0.55	3.17	4.72	3.60	19.25	
8 Ridge Cultivate/Ditch	1		2.29	1.44	0.34	0.87	2.95	3.61	11.50	
9 Spray Herbicide	Custom									
10 Ditch Irrigation	20	ai	27.78	0.00	2.29	0.00	5.12	0.00	35.19	
11 Spray Herbicide	Custom									
12 Aerial Spray	Custom									
13 Aerial Spray	Custom									
14 Top Beets	1		4.32	1.96	0.71	6.67	6.12	3.99	23.77	
15 Lift Beets	1		4.58	3.35	0.22	24.41	17.09	9.04	58.69	
16 Truck	Custom									
17 Subsoil / One-pass Tillage	1		2.78	2.97	0.15	3.25	11.39	4.60	25.14	
Total for Field Operations			58.06	21.08	5.51	47.27	78.61	36.99	247.52	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							10-34-0
28-0-0	Fertilizer	2	100%	125 lbs N	0.75	93.75	
Spray	Custom	3, 9, & 11	300%	1 acre	7.50	22.50	
Glyphosate 5# w/Surfactant	Herbicide	3	100%	36 ounce	0.35	12.66	
21-0-0-24S	Additive	3	100%	1.7 pound	0.45	0.77	
Sugar Beets RR Poncho	Seed	6	100%	1 acre	180.00	180.00	
Glyphosate 5# w/Surfactant	Herbicide	9	100%	36 ounce	0.35	12.66	
21-0-0-24S	Additive	9	100%	1.7 pound	0.45	0.77	
Irrigation District O&M Charge	Other	10	100%	1 acre	35.00	35.00	
Glyphosate 5# w/Surfactant	Herbicide	11	100%	36 ounce	0.35	12.66	
21-0-0-24S	Additive	11	100%	1.7 pound	0.45	0.77	
Aerial Spray	Custom	12	100%	1 acre	10.00	10.00	
Quadris	Fungicide	12	100%	7 ounce	1.88	13.13	
Aerial Spray	Custom	13	50%	1 acre	10.00	5.00	
Proline 480 SC	Fungicide	13	50%	5 ounce	5.39	13.48	
Haul Beets	Custom	16	100%	30 ton	4.00	120.00	
Scouting Sugar Beets	Scouting		100%	1 acre	17.00	17.00	
	Crop Insurance				42.00	42.00	
Total Materials & Services					642.40		

Total listed costs for Field Operations and Materials and Services		889.92
Interest on Operations Capital \$ 774.32 cash expense @ 5.50% for 6.0 mo.		21.29
Total Operating and Use Related Ownership Costs		911.21

Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)		25.00
Real Estate Opportunity [^] Gravity (Panhandle) \$ 2,135 per acre @ 3.00%		64.05
Real Estate Taxes \$ 2,135 per acre @ 1.25%		26.69
Total Cost per Acre Including Overhead		1026.95

Cash Cost per ton	[^] Ownership and RE Opportunity not included in cash costs.	28.24
Cost of production per ton		34.23

**2022 Budget 70-Sugarbeet, Roundup Ready®, Panhandle, One Pass Zone-Tillage, 30 ton Yield
Pivot Irrigated Diesel, 800 GPM 35 PSI, 16 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.52	2.46	0.12	1.43	9.40	1.29	17.22	
2 Spray Fertilizer	1		0.95	0.26	0.13	0.25	1.07	4.31	6.97	
3 Spray Herbicide	Custom									
4 Plant	1		3.00	0.89	0.41	5.28	3.54	3.13	16.25	
5 Row Crop Cultivation	1		2.50	1.03	0.38	1.06	3.22	3.61	11.80	
6 Spray Herbicide	Custom									
7 Pivot D 125' Lift	16	ai	13.89	96.28	5.49	27.67	10.42	15.19	168.94	
8 Spray Herbicide	Custom									
9 Aerial Spray	Custom									
10 Aerial Spray	Custom									
11 Top Beets	1		4.32	1.96	0.71	6.67	6.12	3.99	23.77	
12 Lift Beets	1		4.58	3.35	0.22	24.41	17.09	9.04	58.69	
13 Truck	Custom									
14 Subsoil / One-pass Tillage	1		2.78	2.97	0.15	3.25	11.39	4.60	25.14	
Total for Field Operations			34.54	109.20	7.61	70.02	62.25	45.16	328.78	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							10-34-0
28-0-0	Fertilizer	2	100%	125 lbs N	0.75	93.75	
Spray	Custom	3, 6, and 8	300%	1 acre	7.50	22.50	
Glyphosate 5# w/Surfactant	Herbicide	3	100%	36 ounce	0.35	12.66	
21-0-0-24S	Additive	3	100%	1.7 pound	0.45	0.77	
Sugar Beets RR Poncho	Seed	4	100%	1 acre	180.00	180.00	
Glyphosate 5# w/Surfactant	Herbicide	6	100%	36 ounce	0.35	12.66	
21-0-0-24S	Additive	6	100%	1.7 pound	0.45	0.77	
Glyphosate 5# w/Surfactant	Herbicide	8	100%	36 ounce	0.35	12.66	
21-0-0-24S	Additive	8	100%	1.7 pound	0.45	0.77	
Aerial Spray	Custom	9	100%	1 acre	10.00	10.00	
Quadris	Fungicide	9	100%	7 ounce	1.88	13.13	
Aerial Spray	Custom	10	50%	1 acre	10.00	5.00	
Proline 480 SC	Fungicide	10	50%	5 ounce	5.39	13.48	
Haul Beets	Custom	13	100%	30 ton	4.00	120.00	
Scouting Sugar Beets	Scouting		100%	1 acre	30.00	30.00	
Crop Insurance					42.00	42.00	
Total Materials & Services					620.40		

Total listed costs for Field Operations and Materials and Services		949.18
Interest on Operations Capital \$ 841.77	cash expense @ 5.50% for 6.0 mo.	23.15
Total Operating and Use Related Ownership Costs		972.33
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)		25.00
Real Estate Opportunity [^]	Pivot (Panhandle) \$ 2,565 per acre @ 3.00%	76.95
Real Estate Taxes	\$ 2,565 per acre @ 1.25%	32.06
Total Cost per Acre Including Overhead		1106.34
Cash Cost per ton	[^] Ownership and RE Opportunity not included in cash costs.	30.73
Cost of production per ton		36.88

**2022 Budget 71-Sugarbeet, Roundup Ready®, Panhandle, Conventional Tillage, 30 ton Yield
Pivot Irrigated Diesel, 800 GPM 35 PSI, 16 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.52	2.46	0.12	1.43	9.40	1.29	17.22	
2 Spray Fertilizer	1		0.95	0.26	0.13	0.25	1.07	4.31	6.97	
3 Plow	1		3.67	2.59	0.18	0.96	13.67	0.58	21.65	
4 Roller Harrow	1		2.50	1.62	0.41	0.98	3.54	2.84	11.89	
5 Plant	1		3.00	0.89	0.41	5.28	3.54	3.13	16.25	
6 Spray Herbicide	Custom									
7 Field Cultivation	1		1.83	1.77	0.28	1.59	2.36	1.80	9.63	
8 Pivot D 125' Lift	16	ai	13.89	96.28	5.49	27.67	10.42	15.19	168.94	
9 Spray Herbicide	Custom									
10 Aerial Spray	Custom									
11 Aerial Spray	Custom									
12 Top Beets	1		4.32	1.96	0.71	6.67	6.12	3.99	23.77	
13 Lift Beets	1		4.58	3.35	0.22	24.41	17.09	9.04	58.69	
14 Truck	Custom									
15 Subsoil / One-pass Tillage	1		2.78	2.97	0.15	3.25	11.39	4.60	25.14	
Total for Field Operations			40.04	114.15	8.10	72.49	78.60	46.77	360.15	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
10-34-0	Fertilizer	2	100%	13.4 gallon	3.75	50.25
28-0-0	Fertilizer	2	100%	125 lbs N	0.75	93.75
Spray	Custom	6 & 9	200%	1 acre	7.50	15.00
Glyphosate 5# w/Surfactant	Herbicide	6	100%	36 ounce	0.35	12.66
21-0-0-24S	Additive	6	100%	1.7 pound	0.45	0.77
Sugar Beets RR Poncho	Seed	5	100%	1 acre	180.00	180.00
Glyphosate 5# w/Surfactant	Herbicide	9	100%	36 ounce	0.35	12.66
21-0-0-24S	Additive	9	100%	1.7 pound	0.45	0.77
Aerial Spray	Custom	10	100%	1 acre	10.00	10.00
Quadris	Fungicide	10	100%	7 ounce	1.88	13.13
Aerial Spray	Custom	11	50%	1 acre	10.00	5.00
Proline 480 SC	Fungicide	11	50%	5 ounce	5.39	13.48
Haul Beets	Custom	14	100%	30 ton	4.00	120.00
Scouting Sugar Beets	Scouting		100%	1 acre	17.00	17.00
	Crop Insurance				42.00	42.00
Total Materials & Services					586.47	

Total listed costs for Field Operations and Materials and Services					946.62		
Interest on Operations Capital \$ 821.25	cash expense @	5.50%	for 6.0 mo.		22.58		
Total Operating and Use Related Ownership Costs					969.20		
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)					25.00		
Real Estate Opportunity [^]	Pivot (Panhandle)	\$ 2,565	per acre @	3.00%	76.95		
Real Estate Taxes		\$ 2,565	per acre @	1.25%	32.06		
Total Cost per Acre Including Overhead					1103.21		
Cash Cost per ton	[^] Ownership and RE Opportunity not included in cash costs.					30.03	
Cost of production per ton					36.77		

2022 Budget 72-Sunflower, Clearfield, Panhandle, No Till, Following Corn or Grain Sorghum, 13 cwt Yield Dryland

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Fertilizer and Herbicide	1		0.95	0.26	0.13	0.25	1.07	4.31	6.97	
2 Spray Herbicide	0.5		0.47	0.13	0.06	0.47	0.54	0.86	2.53	
3 Plant No-Till	1		3.00	1.10	0.41	7.61	3.54	4.52	20.18	
4 Spray Herbicide	0.5		0.47	0.13	0.06	0.47	0.54	0.86	2.53	
5 Aerial Spray	Custom									
6 Combine Sunflowers	1		3.44	4.26	8.65	1.06	6.91	4.08	28.40	
7 Truck	Custom									
Total for Field Operations			8.33	5.88	9.31	9.86	12.60	14.63	60.61	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Glyphosate 5# w/Surfactant	Herbicide	1	100%	32 ounce	0.35	11.25
21-0-0-24S	Additive	1	100%	1.7 pound	0.45	0.77
Prowl H2O	Herbicide	1	100%	2 pint	6.88	13.75
28-0-0	Fertilizer	1	100%	50 lbs N	0.75	37.50
Spartan 4F	Herbicide	1	100%	5 ounce	1.95	9.77
Glyphosate 5# w/Surfactant	Herbicide	2	50%	32 ounce	0.35	5.63
21-0-0-24S	Additive	2	50%	1.7 pound	0.45	0.38
Prowl H2O	Herbicide	2	50%	1 pint	6.88	3.44
Sunflower Clearfield	Seed	3	100%	20 k seed	1.48	29.60
Beyond	Herbicide	4	50%	4 ounce	4.06	8.13
NIS	Additive	4	50%	5 ounce	0.16	0.39
UAN	Additive	4	50%	3 pint	0.32	0.48
Aerial Spray	Custom	5	50%	1 acre	10.00	5.00
* Warrior II/Zeon	Insecticide	5	50%	1.92 ounce	2.97	2.85
Haul Grain (Sunflower)	Custom	7	100%	13 cwt	0.30	3.90
Crop Insurance					17.00	17.00
Total Materials & Services						149.84

*Insecticide for seed weevil and sunflower moth

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 183.22	cash expense @	5.50%	for 6.0 mo.	210.45
				5.04
Total Operating and Use Related Ownership Costs				215.49

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

Real Estate Opportunity [^]	Dryland (Panhandle)	\$ 635	per acre @	3.00%	25.00
Real Estate Taxes		\$ 635	per acre @	1.25%	19.05
Total Cost per Acre Including Overhead					7.94

Total Cost per Acre Including Overhead 267.48

Cash Cost per cwt ^{^Ownership and RE Opportunity not included in cash costs.} 17.02

Cost of production per cwt 20.58

2022 Budget 73-Sunflower, Clearfield, Panhandle, Ecofallow, after Wheat, Two Crops in Three Years, 16 cwt Yield Dryland

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership^		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
2 Spray (Prior Year Stubble)	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
3 Spray Fertilizer and Herbicide	1		0.95	0.26	0.13	0.25	1.07	4.31	6.97	
4 Spray Herbicide	0.5		0.47	0.13	0.06	0.47	0.54	0.86	2.53	
5 Plant	1		3.00	0.89	0.41	5.28	3.54	3.13	16.25	
6 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
7 Aerial Spray	Custom									
8 Combine Sunflowers	1		3.44	4.26	8.65	1.06	6.91	4.08	28.40	
9 Truck	Custom									
Total for Field Operations			10.71	6.32	9.64	9.91	15.27	17.54	69.39	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Landmaster BW
21-0-0-24S	Additive	1	100%	2 pound	0.45	0.90		
Glyphosate 5# w/Surfactant	Herbicide	2	100%	32 ounce	0.35	11.25		
21-0-0-24S	Additive	2	100%	1.7 pound	0.45	0.77		
Glyphosate 5# w/Surfactant	Herbicide	3	100%	32 ounce	0.35	11.25		
21-0-0-24S	Additive	3	100%	1.7 pound	0.45	0.77		
Prowl H2O	Herbicide	3	100%	2 pint	6.88	13.75		
28-0-0	Fertilizer	3	100%	60 lbs N	0.75	45.00		
Spartan 4F	Herbicide	3	100%	5 ounce	1.95	9.77		
Glyphosate 5# w/Surfactant	Herbicide	4	50%	32 ounce	0.35	5.63		
21-0-0-24S	Additive	4	50%	1.7 pound	0.45	0.38		
Prowl H ₂ O	Herbicide	4	50%	1 pint	6.88	3.44		
Sunflower Clearfield	Seed	5	100%	20 k seed	1.48	29.60		
Beyond	Herbicide	6	50%	4 ounce	4.06	8.13		
NIS	Additive	6	50%	5 ounce	0.16	0.39		
UAN	Additive	6	50%	3 pint	0.32	0.48		
Aerial Spray	Custom	7	30%	1 acre	10.00	3.00		
* Warrior II/Zeon	Insecticide	7	30%	1.92 ounce	2.97	1.71		
Haul Grain (Sunflower)	Custom	9	100%	16 cwt	0.30	4.80		
Crop Insurance					17.00	17.00		
Total Materials & Services							176.04	

*Insecticide for seed weevil and sunflower moth

Total listed costs for Field Operations and Materials and Services						245.43
Interest on Operations Capital \$ 212.62	cash expense @	5.50%	for 6.0 mo.			5.85
Total Operating and Use Related Ownership Costs						251.28
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)						25.00
Real Estate Opportunity^	Dryland (Panhandle)	\$ 635	per acre @	3.00%		19.05
Real Estate Taxes		\$ 635	per acre @	1.25%		7.94
Total Cost per Acre Including Overhead						303.27
Cash Cost per cwt	^Ownership and RE Opportunity not included in cash costs.					15.71
Cost of production per cwt						18.95

**2022 Budget 74-Sunflower, Clearfield, Panhandle, No Till, 30 cwt Yield
Pivot Irrigated, 800 GPM 35 PSI, 8 acre/inches**

Field Operations		Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
2	Spray Fertilizer and Herbicide	1		0.95	0.26	0.13	0.25	1.07	4.31	6.97	
3	Plant No-Till	1		3.00	1.10	0.41	7.61	3.54	4.52	20.18	
4	Spray Herbicide	Custom									
5	Aerial Spray	Custom									
6	Pivot E 125' Lift w/fertigation	8	ai	9.26	21.24	2.34	14.39	4.10	7.90	59.23	
7	Combine Sunflowers	1		3.44	4.26	8.65	1.06	6.91	4.08	28.40	
8	Truck	Custom									
Total for Field Operations				17.60	27.12	11.66	24.26	16.69	22.53	119.86	

Materials & Services			Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
	Glyphosate 5# w/Surfactant	Herbicide	1	100%	32 ounce	0.35	11.25	
	21-0-0-24S	Additive	1	100%	1.7 pound	0.45	0.77	
	Prowl H2O	Herbicide	2	100%	2.3 pint	6.88	15.81	
	Spartan 4F	Herbicide	2	100%	4 ounce	1.95	7.81	
	28-0-0	Fertilizer	2	100%	100 lbs N	0.75	75.00	
	Sunflower Clearfield	Seed	3	100%	35 k seed	1.48	51.80	
	10-34-0	Fertilizer	3	100%	4 gallon	3.75	15.00	
	Spray	Herbicide	4	50%	1 acre	7.50	3.75	
	Beyond	Herbicide	4	50%	4 ounce	4.06	8.13	
	NIS	Additive	4	50%	5 ounce	0.16	0.39	
	UAN	Additive	4	50%	3 pint	0.32	0.48	
	Aerial Spray	Custom	5	50%	1 acre	10.00	5.00	
*	Warrior II/Zeon	Insecticide	5	50%	3.84 ounce	2.97	5.70	
	Electricity Fixed	Other	6	100%	1 acre	40.00	40.00	
	Haul Grain (Sunflower)	Custom	8	100%	30 cwt	0.30	9.00	
	Crop Insurance					12.00	12.00	
Total Materials & Services							261.89	

*Insecticide for seed weevil and sunflower moth

Total listed costs for Field Operations and Materials and Services							381.75	
Interest on Operations Capital \$ 342.53 cash expense @ 5.50% for 6.0 mo.							9.42	
Total Operating and Use Related Ownership Costs							391.17	
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)							25.00	
Real Estate Opportunity [^] Pivot (Panhandle) \$ 2,565 per acre @ 3.00%							76.95	
Real Estate Taxes \$ 2,565 per acre @ 1.25%							32.06	
Total Cost per Acre Including Overhead							525.18	
Cash Cost per cwt							13.63	
Cost of production per cwt							17.51	

[^]Ownership and RE Opportunity not included in cash costs.

**2022 Budget 75-Wheat-Spring, Southwest, No Till, Wheat after Row Crop, 40 bushel Yield
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 No-Till Drill	1		2.29	1.64	0.34	2.97	2.95	6.05	16.24	
2 Spray Fertilizer and Herbicide	1		0.95	0.26	0.13	0.25	1.07	4.31	6.97	
3 Aerial Spray		Custom								
4 Aerial Spray		Custom								
5 Combine Small Grain	1		3.44	4.24	8.65	1.23	6.91	4.73	29.20	
6 Truck		Custom								
Total for Field Operations			6.68	6.14	9.12	4.45	10.93	15.09	52.41	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
10-34-0 Fertilizer	1	100%	8 gallon	3.75	30.00	
Wheat (Certified and Treated) Seed	1	100%	90 pound	0.25	22.50	
28-0-0 Fertilizer	2	100%	75 lbs N	0.75	56.25	
Ally Extra SGW/TOTSOL Herbicide	2	100%	0.3 ounce	8.00	2.40	
2,4-D Ester LV4 Herbicide	2	100%	0.5 pint	2.63	1.31	
NIS Additive	2	100%	6 ounce	0.16	0.94	
Aerial Spray Custom	3	25%	1 acre	10.00	2.50	
* Quilt Xcel Fungicide	3	25%	10.5 ounce	1.80	4.72	
Aerial Spray Custom	4	15%	1 acre	10.00	1.50	
** Warrior II/Zeon Insecticide	4	15%	1.92 ounce	2.97	0.86	
Haul Grain Bushels Custom	5	100%	40 bushel	0.12	4.80	
Scouting Dryland Wheat Scouting		100%	1 acre	8.00	8.00	
Crop Insurance				8.26	8.26	
Total Materials & Services					144.04	

*Fungicide for rust

**Insecticide for aphids and army cutworm

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 170.43 cash expense @ 5.50% for 6.0 mo.

Total Operating and Use Related Ownership Costs

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

Real Estate Opportunity[^] Dryland (Southwest) \$ 1,445 per acre @ 3.00%
Real Estate Taxes \$ 1,445 per acre @ 1.25%

Total Cost per Acre Including Overhead

Cash Cost per bushel

[^]Ownership and RE Opportunity not included in cash costs.

Cost of production per bushel

**2022 Budget 76-Wheat-Winter, Southwest, No Till, Wheat after Row Crop, 55 bushel Yield
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 No-Till Drill	1		2.29	1.64	0.34	2.97	2.95	6.05	16.24	
2 Spray Fertilizer and Herbicide	1		0.95	0.26	0.13	0.25	1.07	4.31	6.97	
3 Aerial Spray		Custom								
4 Aerial Spray		Custom								
5 Combine Small Grain	1		3.44	4.24	8.65	1.23	6.91	4.73	29.20	
6 Truck		Custom								
Total for Field Operations			6.68	6.14	9.12	4.45	10.93	15.09	52.41	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
10-34-0 Fertilizer	1	100%	8 gallon	3.75	30.00	
Wheat (Certified and Treated) Seed	1	100%	90 pound	0.25	22.50	
28-0-0 Fertilizer	2	100%	75 lbs N	0.75	56.25	
Ally Extra SGW/TOTSOL Herbicide	2	100%	0.3 ounce	8.00	2.40	
2,4-D Ester LV4 Herbicide	2	100%	0.5 pint	2.63	1.31	
NIS Additive	2	100%	6 ounce	0.16	0.94	
Aerial Spray Custom	3	25%	1 acre	10.00	2.50	
* Quilt Xcel Fungicide	3	25%	10.5 ounce	1.80	4.72	
Aerial Spray Custom	4	15%	1 acre	10.00	1.50	
** Warrior II/Zeon Insecticide	4	15%	1.92 ounce	2.97	0.86	
Haul Grain Bushels Custom	5	100%	55 bushel	0.12	6.60	
Scouting Dryland Wheat Scouting		100%	1 acre	8.00	8.00	
Crop Insurance				18.00	18.00	
Total Materials & Services						155.58

*Fungicide for rust

**Insecticide for aphids and army cutworm

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 181.97 cash expense @ 5.50% for 6.0 mo.

Total Operating and Use Related Ownership Costs

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

Real Estate Opportunity[^] Dryland (Southwest) \$ 1,445 per acre @ 3.00%
Real Estate Taxes \$ 1,445 per acre @ 1.25%

Total Cost per Acre Including Overhead

Cash Cost per bushel

[^]Ownership and RE Opportunity not included in cash costs.

Cost of production per bushel

2022 Budget 77-Wheat-Winter, Panhandle, No Till, Fallow, One Crop in Two Years, 70 bushel Yield Dryland

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray (Prior Year Stubble)	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
2 Spray (Prior Year Stubble)	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
3 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
4 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
5 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
6 No-Till Drill	1		2.29	1.64	0.34	2.97	2.95	6.05	16.24	
7 Spread Fertilizer	1		1.97	0.99	0.33	0.00	2.79	0.00	6.08	
8 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
9 Aerial Spray	Custom									
10 Aerial Spray	Custom									
11 Combine Small Grain	1		3.44	4.24	8.65	1.23	6.91	4.73	29.20	
12 Truck	Custom									
Total for Field Operations			13.40	8.43	10.10	9.90	19.07	21.10	82.00	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate 5# w/Surfactant
21-0-0-24S	Additive	1	100%	1.7 pound	0.45	0.77		
Glyphosate 5# w/Surfactant	Herbicide	2	100%	32 ounce	0.35	11.25		
21-0-0-24S	Additive	2	100%	1.7 pound	0.45	0.77		
AAtrex 4L	Herbicide	2	100%	1 quart	4.00	4.00		
Glyphosate 5# w/Surfactant	Herbicide	3	100%	32 ounce	0.35	11.25		
21-0-0-24S	Additive	3	100%	1.7 pound	0.45	0.77		
Glyphosate 5# w/Surfactant	Herbicide	4	100%	32 ounce	0.35	11.25		
21-0-0-24S	Additive	4	100%	1.7 pound	0.45	0.77		
Glyphosate 5# w/Surfactant	Herbicide	5	100%	32 ounce	0.35	11.25		
21-0-0-24S	Additive	5	100%	1.7 pound	0.45	0.77		
10-34-0	Fertilizer	6	100%	8 gallon	3.75	30.00		
Wheat (Certified and Treated)	Seed	6	100%	60 pound	0.25	15.00		
46-0-0	Fertilizer	7	100%	90 lbs N	0.75	67.50		
Ally Extra SGW/TOTSOL	Herbicide	8	100%	0.3 ounce	8.00	2.40		
2,4-D Ester LV4	Herbicide	8	10%	0.5 pint	2.63	0.13		
NIS	Additive	8	20%	6 ounce	0.16	0.19		
Aerial Spray	Custom	9	25%	1 acre	10.00	2.50		
* Quilt Xcel	Fungicide	9	25%	10.5 ounce	1.80	4.72		
Aerial Spray	Custom	10	15%	1 acre	10.00	1.50		
** Warrior II/Zeon	Insecticide	10	15%	1.92 ounce	2.97	0.86		
Haul Grain Bushels	Custom	12	100%	70 bushel	0.12	8.40		
Scouting Dryland Wheat	Scouting		100%	1 acre	8.00	8.00		
Crop Insurance						20.00	20.00	
Total Materials & Services							225.30	

*Fungicide for rust
**Insecticide for aphids and army cutworm

Total listed costs for Field Operations and Materials and Services							307.30
Interest on Operations Capital \$ 267.13	cash expense @	5.50%	for 6.0 mo.				7.35
Total Operating and Use Related Ownership Costs							314.65
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)							25.00
Real Estate Opportunity [^]	Dryland (Panhandle)	\$ 1,270	per acre @	3.00%			76.20
Real Estate Taxes		\$ 1,270	per acre @	1.25%			31.76
Total Cost per Acre Including Overhead							447.61
Cash Cost per bushel							4.73
Cost of production per bushel							6.39

[^]Ownership and RE Opportunity not included in cash costs.

**2022 Budget 78-Wheat-Winter, Panhandle, Stubble Mulch Fallow, One Crop in Two Years, 65 bushel Yield
Dryland**

Field Operations	Times or Qty	Labor @ Unit	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate	
				Power	Imp.	Power	Imp.			
1 Sweep Plow	1	2.20	2.24	0.11	0.81	8.20	1.29	14.85		
2 Sweep Plow	1	2.20	2.24	0.11	0.81	8.20	1.29	14.85		
3 Sweep Plow	1	2.20	2.24	0.11	0.81	8.20	1.29	14.85		
4 Rod Weeder	1	1.89	1.31	0.31	0.64	2.68	2.57	9.40		
5 Rod Weeder	1	1.89	1.31	0.31	0.64	2.68	2.57	9.40		
6 Drill	1	2.20	1.29	0.33	4.64	2.83	1.58	12.87		
7 Spray Fertilizer	1	0.95	0.26	0.13	0.25	1.07	4.31	6.97		
8 Spray Herbicide	1	0.95	0.26	0.13	0.95	1.07	1.72	5.08		
9 Aerial Spray	Custom									
10 Aerial Spray	Custom									
11 Combine Small Grain	1	3.44	4.24	8.65	1.23	6.91	4.73	29.20		
12 Truck	Custom									
Total for Field Operations			17.92	15.39	10.19	10.78	41.84	21.35	117.47	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							10-34-0
Wheat (Certified and Treated)	Seed	6	100%	55 pound	0.25	13.75	
28-0-0	Fertilizer	7	100%	85 lbs N	0.75	63.75	
2,4-D Ester LV4	Herbicide	8	100%	0.5 pint	2.63	1.31	
Ally Extra SGW/TOTSOL	Herbicide	8	100%	0.3 ounce	8.00	2.40	
NIS	Additive	8	100%	6 ounce	0.16	0.94	
Aerial Spray	Custom	9	25%	1 acre	10.00	2.50	
* Quilt Xcel	Fungicide	9	25%	10.5 ounce	1.80	4.72	
Aerial Spray	Custom	10	15%	1 acre	10.00	1.50	
** Warrior II/Zeon	Insecticide	10	15%	1.92 ounce	2.97	0.86	
Haul Grain Bushels	Custom	12	100%	65 bushel	0.12	7.80	
Scouting Dryland Wheat	Scouting		100%	1 acre	8.00	8.00	
	Crop Insurance				19.00	19.00	
Total Materials & Services						156.53	

*Fungicide for rust

**Insecticide for aphids and army cutworm

Total listed costs for Field Operations and Materials and Services		274.00
Interest on Operations Capital \$ 210.81 cash expense @ 5.50% for 6.0 mo.		5.80
Total Operating and Use Related Ownership Costs		279.80

Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)		25.00
Real Estate Opportunity [^] Dryland (Panhandle)	\$ 1,270 per acre @	3.00%
Real Estate Taxes	\$ 1,270 per acre @	1.25%
Total Cost per Acre Including Overhead		412.76

Cash Cost per bushel	[^] Ownership and RE Opportunity not included in cash costs.	4.21
Cost of production per bushel		6.35

2022 Budget 79-Wheat-Winter, Panhandle, Conventional Tillage, One Crop in Two Years, 60 bushel Yield Dryland

	Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Disk	1		2.52	2.46	0.12	1.43	9.40	1.29	17.22	
2	Field Cultivation	1		1.83	1.77	0.28	1.59	2.36	1.80	9.63	
3	Field Cultivation	1		1.83	1.77	0.28	1.59	2.36	1.80	9.63	
4	Field Cultivation	1		1.83	1.77	0.28	1.59	2.36	1.80	9.63	
5	Rod Weeder	1		1.89	1.31	0.31	0.64	2.68	2.57	9.40	
6	Rod Weeder & Fertilizer	1		2.27	1.31	0.31	0.64	2.68	2.57	9.78	
7	Drill	1		2.20	1.29	0.33	4.64	2.83	1.58	12.87	
8	Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
9	Aerial Spray	Custom									
10	Aerial Spray	Custom									
11	Combine Small Grain	1		3.44	4.24	8.65	1.23	6.91	4.73	29.20	
12	Truck	Custom									
Total for Field Operations				18.76	16.18	10.69	14.30	32.65	19.86	112.44	

	Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								32-0-0
10-34-0	Fertilizer	7	100%	8 gallon	3.75	30.00		
	Wheat (Certified and Treated)	7	100%	50 pound	0.25	12.50		
	2,4-D Ester LV4	Herbicide	8	100%	0.5 pint	2.63	1.31	
	Ally Extra SGW/TOTSOL	Herbicide	8	100%	0.3 ounce	8.00	2.40	
	NIS	Additive	8	100%	6 ounce	0.16	0.94	
	Aerial Spray	Custom	9	25%	1 acre	10.00	2.50	
*	Quilt Xcel	Fungicide	9	25%	10.5 ounce	1.80	4.72	
	Aerial Spray	Custom	10	15%	1 acre	10.00	1.50	
**	Warrior II/Zeon	Insecticide	10	15%	1.92 ounce	2.97	0.86	
	Haul Grain Bushels	Custom	12	100%	60 bushel	0.12	7.20	
	Scouting Dryland Wheat	Scouting		100%	1 acre	8.00	8.00	
	Crop Insurance				18.00	18.00		
Total Materials & Services							140.33	

*Fungicide for rust

**Insecticide for aphids and army cutworm

Total listed costs for Field Operations and Materials and Services 252.77

Interest on Operations Capital \$ 200.26 cash expense @ 5.50% for 6.0 mo. 5.51

Total Operating and Use Related Ownership Costs 258.28

Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests) 25.00

Real Estate Opportunity[^] Dryland (Panhandle) \$ 1,270 per acre @ 3.00% 76.20

Real Estate Taxes \$ 1,270 per acre @ 1.25% 31.76

Total Cost per Acre Including Overhead 391.24

Cash Cost per bushel

[^]Ownership and RE Opportunity not included in cash costs.

4.38

Cost of production per bushel

6.52

2022 Budget 80-Wheat-Winter, Southwest, No Till, Wheat before Corn, Two Crops in Three Years, 80 bushel Yield Dryland

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership^		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
2 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
3 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
4 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
5 No-Till Drill	1		2.29	1.64	0.34	2.97	2.95	6.05	16.24	
6 Spread Fertilizer	1		1.97	0.99	0.33	0.00	2.79	0.00	6.08	
7 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
8 Aerial Spray	Custom									
9 Aerial Spray	Custom									
10 Combine Small Grain	1		3.44	4.24	8.65	1.23	6.91	4.73	29.20	
11 Truck	Custom									
Total for Field Operations			12.45	8.17	9.97	8.95	18.00	19.38	76.92	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate 5# w/Surfactant
21-0-0-24S	Additive	1	100%	1.7 pound	0.45	0.77		
2,4-D Ester LV4	Herbicide	1	100%	1 pint	2.63	2.63		
Glyphosate 5# w/Surfactant	Herbicide	2	100%	32 ounce	0.35	11.25		
21-0-0-24S	Additive	2	100%	1.7 pound	0.45	0.77		
2,4-D Ester LV4	Herbicide	2	100%	1 pint	2.63	2.63		
Glyphosate 5# w/Surfactant	Herbicide	3	100%	32 ounce	0.35	11.25		
21-0-0-24S	Additive	3	100%	1.7 pound	0.45	0.77		
2,4-D Ester LV4	Herbicide	3	100%	1 pint	2.63	2.63		
Glyphosate 5# w/Surfactant	Herbicide	4	100%	32 ounce	0.35	11.25		
21-0-0-24S	Additive	4	100%	1.7 pound	0.45	0.77		
10-34-0	Fertilizer	5	100%	8 gallon	3.75	30.00		
Wheat (Certified and Treated)	Seed	5	100%	60 pound	0.25	15.00		
46-0-0	Fertilizer	6	100%	120 lbs N	0.75	90.00		
Ally Extra SGW/TOTSOL	Herbicide	7	100%	0.3 ounce	8.00	2.40		
NIS	Additive	7	10%	6 ounce	0.16	0.09		
2,4-D Ester LV4	Herbicide	7	20%	0.5 pint	2.63	0.26		
Aerial Spray	Custom	8	25%	1 acre	10.00	2.50		
* Quilt Xcel	Fungicide	8	25%	10.5 ounce	1.80	4.72		
Aerial Spray	Custom	9	15%	1 acre	10.00	1.50		
** Warrior II/Zeon	Insecticide	9	15%	1.92 ounce	2.97	0.86		
Haul Grain Bushels	Custom	11	100%	80 bushel	0.12	9.60		
Scouting Dryland Wheat	Scouting		100%	1 acre	8.00	8.00		
	Crop Insurance				25.00	25.00		
Total Materials & Services							245.90	

*Fungicide for rust

**Insecticide for aphids and army cutworm

Total listed costs for Field Operations and Materials and Services 322.82

Interest on Operations Capital \$ 285.44 cash expense @ 5.50% for 6.0 mo. 7.85

Total Operating and Use Related Ownership Costs 330.67

Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests) 25.00

Real Estate Opportunity^ Dryland (Southwest) \$ 1,445 per acre @ 3.00% 65.03

Real Estate Taxes \$ 1,445 per acre @ 1.25% 27.09

Total Cost per Acre Including Overhead 447.78

Cash Cost per bushel ^Ownership and RE Opportunity not included in cash costs. 4.32

Cost of production per bushel 5.60

**2022 Budget 81-Wheat-Winter, Panhandle, No Till, after Dry Beans, 105 bushel Yield
Pivot Irrigated Diesel, 800 GPM 35 PSI, 6 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 No-Till Drill	1		2.29	1.64	0.34	2.97	2.95	6.05	16.24	
2 Pivot D 125' Lift	6	ai	5.21	36.11	2.06	10.38	3.91	5.70	63.37	
3 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
4 Aerial Spray	Custom									
5 Aerial Spray	Custom									
6 Combine Small Grain	1		3.44	4.24	11.00	1.23	10.00	4.73	34.64	
7 Truck	Custom									
Total for Field Operations			11.89	42.25	13.53	15.53	17.93	18.20	119.33	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
10-34-0 Fertilizer	1	100%	8 gallon	3.75	30.00	
Wheat (Certified and Treated) Seed	1	100%	120 pound	0.25	30.00	
28-0-0 Fertilizer	2	100%	130 lbs N	0.75	97.50	
2,4-D Ester LV4 Herbicide	3	100%	0.5 pint	2.63	1.31	
Ally Extra SGW/TOTSOL Herbicide	3	100%	0.3 ounce	8.00	2.40	
NIS Additive	3	100%	6 ounce	0.16	0.94	
Aerial Spray Custom	4	100%	1 acre	10.00	10.00	
* Proso 421 SC Fungicide	4	100%	7 ounce	2.73	19.14	
Aerial Spray Custom	5	15%	1 acre	10.00	1.50	
** Mustang Maxx Insecticide	5	10%	3 ounce	1.48	0.45	
** Warrior II/Zeon Insecticide	5	5%	1.92 ounce	2.97	0.29	
Haul Grain Bushels Custom	7	100%	105 bushel	0.12	12.60	
Scouting Irrigated Wheat Scouting		100%	1 acre	7.00	7.00	
Crop Insurance				29.00	29.00	
Total Materials & Services					242.13	

*Fungicide for rust

**Insecticide for aphids and army cutworm

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 325.33 cash expense @ 5.50% for 6.0 mo.

Total Operating and Use Related Ownership Costs

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

Real Estate Opportunity[^] Pivot (Panhandle) \$ 2,565 per acre @ 3.00%
Real Estate Taxes \$ 2,565 per acre @ 1.25%

Total Cost per Acre Including Overhead

Cash Cost per bushel ^{^Ownership and RE Opportunity not included in cash costs.}

Cost of production per bushel

**2022 Budget 82-Wheat-Winter, Panhandle, No Till, in Rotation, 90 bushel Yield
Pivot Irrigated Electric, 800 GPM 35 PSI, 6 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
2 No-Till Drill	1		2.29	1.64	0.34	2.97	2.95	6.05	16.24	
3 Spray Herbicide	1		0.95	0.26	0.13	0.95	1.07	1.72	5.08	
4 Pivot E 125' Lift w/fertigation	6	ai	6.94	15.93	1.76	10.79	3.07	5.92	44.41	
5 Aerial Spray	Custom									
6 Aerial Spray	Custom									
7 Combine Small Grain	1		3.44	4.24	11.00	1.23	10.00	4.73	34.64	
8 Truck	Custom									
Total for Field Operations			14.57	22.33	13.36	16.89	18.16	20.14	105.45	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate 5# w/Surfactant
Sharpen	Herbicide	1	100%	2 ounce	6.64	13.28		
21-0-0-24S	Additive	2	100%	1.7 pound	0.45	0.77		
MSO	Additive	2	100%	16 ounce	0.20	3.13		
Wheat (Certified and Treated)	Seed	2	100%	120 pound	0.25	30.00		
11-52-0	Fertilizer	2	100%	40 pound	0.41	16.40		
2,4-D Ester LV4	Herbicide	3	100%	0.5 pint	2.63	1.31		
Ally Extra SGW/TOTSOL	Herbicide	3	100%	0.3 ounce	8.00	2.40		
NIS	Additive	3	100%	6 ounce	0.16	0.94		
32-0-0 (Applied by Pivot)	Fertilizer	4	100%	125 lbs N	0.72	90.00		
Electricity Fixed	Other	4	100%	1 acre	40.00	40.00		
Aerial Spray	Custom	5	100%	1 acre	10.00	10.00		
* Prosaro 421 SC	Fungicide	5	100%	7 ounce	2.73	19.14		
Aerial Spray	Custom	6	20%	1 acre	10.00	2.00		
** Mustang Maxx	Insecticide	6	10%	3 ounce	1.48	0.45		
** Warrior II/Zeon	Insecticide	6	10%	1.92 ounce	2.97	0.57		
Scouting Irrigated Wheat	Scouting		100%	1 acre	7.00	7.00		
Haul Grain Bushels	Custom	8	100%	90 bushel	0.12	10.80		
	Crop Insurance				27.00	27.00		
Total Materials & Services							286.44	

*Fungicide for rust

**Insecticide for aphids and army cutworm

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 353.59 cash expense @ 5.50% for 6.0 mo.

Total Operating and Use Related Ownership Costs

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

Real Estate Opportunity[^] Pivot (Panhandle) \$ 2,565 per acre @ 3.00%
Real Estate Taxes \$ 2,565 per acre @ 1.25%

Total Cost per Acre Including Overhead

Cash Cost per bushel

[^]Ownership and RE Opportunity not included in cash costs.

Cost of production per bushel

2022 Budget 83-Cover Crop, Conventional Tillage

Field Operations		Times or Qty	Labor @ Unit \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1	Disk	1	2.52	2.46	0.12	1.43	9.40	1.29	17.22	_____
2	Broadcast Seed	Custom								_____
3	Field Cultivation	1	1.83	1.77	0.28	1.59	2.36	1.80	9.63	_____
Total for Field Operations			4.35	4.23	0.40	3.02	11.76	3.09	26.85	_____
Materials & Services			Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate		
	Cover Crop	Seed	2	100%	1 acre	20.00	20.00	_____		
	Broadcast Seed	Custom	2	100%	1 acre	9.30	9.30	_____		
Total Materials & Services								29.30	_____	
Total listed costs for Field Operations and Materials and Services									56.15	_____
Interest on Operations Capital \$ 41.30 cash expense @ 5.50% for 6.0 mo.									1.14	_____
Total Operating and Use Related Ownership Costs									57.29	_____
Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests)									0.00	_____
Real Estate Opportunity <input type="text"/> \$ - per acre @ 3.00%									0.00	_____
Real Estate Taxes \$ - per acre @ 1.25%									0.00	_____
Total Cost per Acre Including Overhead									57.29	_____

2022 Budget 84-Cover Crop Grazing, No Till

Field Operations		Times or Qty	Labor @ Unit \$25.00 /Hr	Fuel @ \$2.82 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1	No-Till Drill	1	2.29	1.64	0.34	2.97	2.95	6.05	16.24	
2	Spray Herbicide	1	0.95	0.26	0.13	0.95	1.07	1.72	5.08	
Total for Field Operations			3.24	1.90	0.47	3.92	4.02	7.77	21.32	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
	Cover Crop Grazing Mix	Seed	1	100%	1 acre	30.00	30.00	
*	2,4-D Ester LV4	Herbicide	2	100%	1 pint	2.63	2.63	
	Glyphosate 5# w/Surfactant	Herbicide	2	100%	32 ounce	0.35	11.25	
Total Materials & Services							43.88	

* Cannot use with some cover crops.

Total listed costs for Field Operations and Materials and Services 65.20

Interest on Operations Capital \$ 53.41 cash expense @ 5.50% for 6.0 mo. 1.47

Total Operating and Use Related Ownership Costs 66.67

Overhead (accounting, liability insurance, vehicle cost, office expense, soil tests) 0.00

Real Estate Opportunity \$ - per acre @ 3.00% 0.00

Real Estate Taxes \$ - per acre @ 1.25% 0.00

Total Cost per Acre Including Overhead 66.67