

# 2018 Nebraska Crop Budgets

Developed and  
Edited by

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

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

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

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

  

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

  

<b>Total listed costs for Field Operations and Materials and Services</b>		172.00
Interest on Operations Capital \$ 91.18 cash expense @ 5.50% for 6.0 mo.		2.51
<b>Total Operating and Use Related Ownership Costs</b>		174.51
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)		20.00
Real Estate Opportunity <span style="border: 1px solid black; padding: 2px;">Dryland (State)</span> \$ 3,145 per acre @ 3.00%		94.35
Real Estate Taxes \$ 3,145 per acre @ 1.00%		31.45
<b>Total Cost per Acre Including Overhead</b>		320.31
<b>Cost per ton</b>		72.80
<b>Cash Cost per ton</b>		21.29

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

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

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

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

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

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

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

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



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

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

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Twine Large Square	Other	3	100%	4.4 ton	1.81	7.95	
Load Large Square Bales	Custom	4	100%	4.4 ton	2.94	12.92	
Twine Small Square	Other	5	100%	2.2 ton	2.33	5.13	
Electricity Fixed	Other	7	100%	1 acre	30.00	30.00	
Velpar 75DF	Herbicide	8	25%	0.66 pound	40.00	6.60	
Mustang Max EC	Insecticide	9	25%	3 ounce	1.41	1.05	
<b>Total Materials &amp; Services</b>						81.65	

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

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

**Total Operating and Use Related Ownership Costs** 6.80

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

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

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

**Total Cost per Acre Including Overhead** 503.03

**Cost per ton** 76.22

**Cash Cost per ton** 38.48

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

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

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							11-52-0
Bale Lg Sq 1360 lb	Custom	5	100%	6.6 ton	22.06	145.59	
Load Large Square Bales	Custom	6	100%	6.6 ton	2.94	19.38	
Irrigation District O&M Charge	Other	8	100%	1 acre	30.00	30.00	
Pursuit	Herbicide	9	25%	4.5 ounce	3.75	4.22	
Crop Oil Concentrate	Additive	9	25%	1.6 pint	1.04	0.42	
UAN	Additive	9	25%	2 pint	0.16	0.08	
Mustang Max EC	Insecticide	10	25%	3 ounce	1.41	1.05	
<b>Total Materials &amp; Services</b>						218.74	

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

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

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

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

**Total listed costs for Field Operations and Materials and Services** 364.61

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

**Total Operating and Use Related Ownership Costs** 372.71

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

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

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

**Total Cost per Acre Including Overhead** 635.51

**Cost per ton** 93.46

**Cash Cost per ton** 44.52

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

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

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							82-0-0
Corn	Seed	4	100%	13.8 k seed	2.38	32.88	
Capture LFR	Insecticide	4	100%	6.6 ounce	2.34	15.47	
10-34-0	Fertilizer	4	100%	6 gallon	2.30	13.80	
Lumax EZ	Herbicide	5	100%	2.7 quart	20.00	54.00	
Spray	Custom	8	50%	1 acre	7.00	3.50	
Armezon Pro	Herbicide	8	50%	14 ounce	1.33	9.30	
NIS	Additive	8	50%	6 ounce	0.09	0.26	
UAN	Additive	8	50%	2 pint	0.16	0.16	
Spray	Custom	9	30%	1 acre	7.00	2.10	
Brigade 2EC	Insecticide	9	10%	5.12 ounce	0.70	0.36	
Mustang Max EC	Insecticide	9	20%	2 ounce	1.41	0.56	
Haul Grain Bushels	Custom	12	100%	85 bushel	0.11	9.35	
Dry 2 Points Removed	Custom	13	10%	85 bushel	0.08	0.68	
Scouting Dryland Corn	Scouting		100%	1 acre	7.00	7.00	
	Crop Insurance				15.00	15.00	
<b>Total Materials &amp; Services</b>						186.52	

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

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

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

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Corn Seed	3	100%	15.4 k seed	2.38	36.54	
10-34-0 Fertilizer	3	100%	6 gallon	2.30	13.80	
Lumax EZ Herbicide	4	100%	2.7 quart	20.00	54.00	
Spray Custom	7	50%	1 acre	7.00	3.50	
Laudis Herbicide	7	50%	3 ounce	6.25	9.38	
MSO Additive	7	50%	19.2 ounce	0.16	1.50	
UAN Additive	7	50%	2 pint	0.16	0.16	
Spray Custom	8	30%	1 acre	7.00	2.10	
Brigade 2EC Insecticide	8	10%	5.12 ounce	0.70	0.36	
Mustang Max EC Insecticide	8	20%	2 ounce	1.41	0.56	
Haul Grain Bushels Custom	11	100%	95 bushel	0.11	10.45	
Dry 2 Points Removed Custom	12	10%	95 bushel	0.08	0.76	
Scouting Dryland Corn Scouting		100%	1 acre	7.00	7.00	
Crop Insurance				15.00	15.00	
<b>Total Materials &amp; Services</b>						168.11

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

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

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

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							82-0-0
Corn	Seed	4	100%	23.1 k seed	2.38	54.81	
Capture LFR	Insecticide	4	100%	6.6 ounce	2.34	15.47	
10-34-0	Fertilizer	4	100%	6 gallon	2.30	13.80	
Lumax EZ	Herbicide	5	100%	2.7 quart	20.00	54.00	
Status	Herbicide	6	50%	2.5 ounce	4.30	5.38	
NIS	Additive	6	50%	6 ounce	0.09	0.26	
UAN	Additive	6	50%	2 pint	0.16	0.16	
Spray	Custom	7	30%	1 acre	7.00	2.10	
Brigade 2EC	Insecticide	7	10%	5.12 ounce	0.70	0.36	
Mustang Max EC	Insecticide	7	20%	2 ounce	1.41	0.56	
Haul Grain Bushels	Custom	10	100%	135 bushel	0.11	14.85	
Dry 2 Points Removed	Custom	11	20%	135 bushel	0.08	2.16	
Scouting Dryland Corn	Scouting		100%	1 acre	7.00	7.00	
	Crop Insurance				19.00	19.00	
<b>Total Materials &amp; Services</b>						225.01	

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

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

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

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							82-0-0
Corn	Seed	3	100%	24.6 k seed	2.38	58.46	
10-34-0	Fertilizer	3	100%	6 gallon	2.30	13.80	
Lumax EZ	Herbicide	4	100%	2.7 quart	20.00	54.00	
Armezon Pro	Herbicide	5	50%	14 ounce	1.33	9.30	
NIS	Additive	5	50%	6 ounce	0.09	0.26	
UAN	Additive	5	50%	2 pint	0.16	0.16	
Spray	Custom	6	30%	1 acre	7.00	2.10	
Brigade 2EC	Insecticide	6	10%	5.12 ounce	0.70	0.36	
Mustang Max EC	Insecticide	6	20%	2 ounce	1.41	0.56	
Haul Grain Bushels	Custom	9	100%	145 bushel	0.11	15.95	
Dry 2 Points Removed	Custom	10	20%	145 bushel	0.08	2.32	
Scouting Dryland Corn	Scouting		100%	1 acre	7.00	7.00	
	Crop Insurance				19.00	19.00	
<b>Total Materials &amp; Services</b>						209.27	

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



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

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
2 Spray Fertilizer and Herbicide	1		1.00	0.30	0.35	0.00	1.08	17.38	20.11	
3 Plant No-Till	1		2.40	0.95	0.86	4.41	2.70	6.13	17.45	
4 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
5 Spray Insecticide	Custom									
6 Combine Dryland Corn	1		3.14	4.23	7.31	1.53	5.84	4.33	26.38	
7 Cart	115	bu	1.64	0.63	0.64	1.05	2.01	0.62	6.59	
8 Truck	Custom									
9 Dry Grain	Custom									
<b>Total for Field Operations</b>			9.68	6.56	9.68	7.60	13.25	28.91	75.68	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
2,4-D Ester LV4	Herbicide	1	50%	1 pint	2.13	1.06	
21-0-0-24S	Additive	1	50%	1.7 pound	0.28	0.24	
32-0-0	Fertilizer	2	100%	115 lbs N	0.32	36.80	
Acuron	Herbicide	2	100%	2.5 quart	15.00	37.50	
Corn Bt, ECB, RW, RR2, & RIB	Seed	3	100%	19.2 k seed	3.38	64.90	
10-34-0-1Zn	Fertilizer	3	100%	6 gallon	2.35	14.10	
Glyphosate w/Surfactant	Herbicide	4	100%	32 ounce	0.12	3.75	
21-0-0-24S	Additive	4	100%	1.7 pound	0.28	0.48	
Laudis	Herbicide	4	50%	3 ounce	6.25	9.38	
* Spray	Custom	5	30%	1 acre	7.00	2.10	
* Brigade 2EC	Insecticide	5	10%	5.12 ounce	0.70	0.36	
* Mustang Max EC	Insecticide	5	20%	2 ounce	1.41	0.56	
Haul Grain Bushels	Custom	8	100%	115 bushel	0.11	12.65	
Dry 2 Points Removed	Custom	9	10%	115 bushel	0.08	0.92	
Scouting Dryland Corn	Scouting		100%	1 acre	7.00	7.00	
	Crop Insurance				17.00	17.00	
<b>Total Materials &amp; Services</b>						210.68	

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

**Total listed costs for Field Operations and Materials and Services** 286.36

Interest on Operations Capital \$ 244.20 cash expense @ 5.50% for 6.0 mo. 6.72

**Total Operating and Use Related Ownership Costs** 293.08

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

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

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

**Total Cost per Acre Including Overhead** 438.88

**Cost per bu** 3.82

**Cash Cost per bu** 2.18

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

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1	Spray Spring Burndown Herbicide	0.5	0.50	0.15	0.17	0.32	0.54	0.41	2.09	
2	Spray Fertilizer and Herbicide	1	1.00	0.30	0.35	0.00	1.08	17.38	20.11	
3	Plant No-Till	1	2.40	0.95	0.86	4.41	2.70	6.13	17.45	
4	Spray Herbicide	1	1.00	0.30	0.35	0.29	1.08	0.04	3.06	
5	Spray Insecticide	Custom								
6	Combine Dryland Corn	1	3.14	4.23	7.31	1.53	5.84	4.33	26.38	
7	Cart	160 bu	2.29	0.88	0.90	1.46	2.80	0.86	9.19	
8	Truck	Custom								
9	Dry Grain	Custom								
<b>Total for Field Operations</b>			10.33	6.81	9.94	8.01	14.04	29.15	78.28	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
2,4-D Ester LV4	Herbicide	1	50%	1 pint	2.13	1.06	
21-0-0-24S	Additive	1	50%	1.7 pound	0.28	0.24	
32-0-0	Fertilizer	2	100%	155 lbs N	0.32	49.60	
Acuron	Herbicide	2	100%	2.5 quart	15.00	37.50	
Corn Bt, ECB, RW, RR2, & RIB	Seed	3	100%	26.2 k seed	3.38	88.27	
10-34-0-1Zn	Fertilizer	3	100%	6 gallon	2.35	14.10	
Glyphosate w/Surfactant	Herbicide	4	100%	32 ounce	0.12	3.75	
21-0-0-24S	Additive	4	100%	1.7 pound	0.28	0.48	
Status	Herbicide	4	50%	2.5 ounce	4.30	5.38	
* Spray	Custom	5	30%	1 acre	7.00	2.10	
* Brigade 2EC	Insecticide	5	10%	5.12 ounce	0.70	0.36	
* Mustang Max EC	Insecticide	5	20%	2 ounce	1.41	0.56	
Haul Grain Bushels	Custom	8	100%	160 bushel	0.11	17.60	
Dry 2 Points Removed	Custom	9	20%	160 bushel	0.08	2.56	
Scouting Dryland Corn	Scouting		100%	1 acre	7.00	7.00	
	Crop Insurance				22.00	22.00	
<b>Total Materials &amp; Services</b>						254.44	

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

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

Interest on Operations Capital \$ 289.53	cash expense @	5.50%	for 6.0 mo.	7.96
<b>Total Operating and Use Related Ownership Costs</b>				340.68

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

Real Estate Opportunity	Dryland (Eastern)	\$ 5,790	per acre @	3.00%	173.70
Real Estate Taxes		\$ 5,790	per acre @	1.00%	57.90

**Total Cost per Acre Including Overhead** 592.28

**Cost per bu** 3.70

**Cash Cost per bu** 1.86

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

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
2 Spray Fertilizer and Herbicide	1		1.00	0.30	0.35	0.00	1.08	17.38	20.11	
3 Plant No-Till	1		2.40	0.95	0.86	4.41	2.70	6.13	17.45	
4 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
5 Spray Insecticide	Custom									
6 Combine Dryland Corn	1		3.14	4.23	7.31	1.53	5.84	4.33	26.38	
7 Cart	120	bu	1.71	0.66	0.67	1.10	2.10	0.65	6.89	
8 Truck	Custom									
9 Dry Grain	Custom									
<b>Total for Field Operations</b>			9.75	6.59	9.71	7.65	13.34	28.94	75.98	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate w/Surfactant
2,4-D Ester LV4	Herbicide	1	50%	1 pint	2.13	1.06		
21-0-0-24S	Additive	1	50%	1.7 pound	0.28	0.24		
32-0-0	Fertilizer	2	100%	120 lbs N	0.32	38.40		
Acuron	Herbicide	2	100%	2.5 quart	15.00	37.50		
Corn SmartStax RIB Complete	Seed	3	100%	20.0 k seed	3.75	75.00		
10-34-0	Fertilizer	3	100%	6 gallon	2.30	13.80		
Glyphosate w/Surfactant	Herbicide	4	100%	32 ounce	0.12	3.75		
21-0-0-24S	Additive	4	100%	1.7 pound	0.28	0.48		
Armezon Pro	Herbicide	4	50%	14 ounce	1.33	9.30		
Spray	Custom	5	10%	1 acre	7.00	0.70		
Brigade 2EC	Insecticide	5	10%	5.12 ounce	0.70	0.36		
Haul Grain Bushels	Custom	8	100%	120 bushel	0.11	13.20		
Dry 2 Points Removed	Custom	9	10%	120 bushel	0.08	0.96		
Scouting Dryland Corn	Scouting		100%	1 acre	7.00	7.00		
	Crop Insurance				17.00	17.00		
<b>Total Materials &amp; Services</b>							220.63	

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

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

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1	Spray Spring Burndown Herbicide	0.5	0.50	0.15	0.17	0.32	0.54	0.41	2.09	
2	Spray Fertilizer and Herbicide	1	1.00	0.30	0.35	0.00	1.08	17.38	20.11	
3	Plant No-Till	1	2.40	0.95	0.86	4.41	2.70	6.13	17.45	
4	Spray Herbicide	1	1.00	0.30	0.35	0.29	1.08	0.04	3.06	
5	Spray Insecticide	Custom								
6	Combine Dryland Corn	1	3.14	4.23	7.31	1.53	5.84	4.33	26.38	
7	Cart	165 bu	2.36	0.91	0.93	1.51	2.89	0.89	9.49	
8	Truck	Custom								
9	Dry Grain	Custom								
<b>Total for Field Operations</b>			10.40	6.84	9.97	8.06	14.13	29.18	78.58	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate w/Surfactant
2,4-D Ester LV4	Herbicide	1	50%	1 pint	2.13	1.06		
21-0-0-24S	Additive	1	50%	1.7 pound	0.28	0.24		
32-0-0	Fertilizer	2	100%	165 lbs N	0.32	52.80		
Acuron	Herbicide	2	100%	2.5 quart	15.00	37.50		
Corn SmartStax RIB Complete	Seed	3	100%	26.9 k seed	3.75	100.96		
10-34-0	Fertilizer	3	100%	6 gallon	2.30	13.80		
Glyphosate w/Surfactant	Herbicide	4	100%	32 ounce	0.12	3.75		
21-0-0-24S	Additive	4	100%	1.7 pound	0.28	0.48		
Laudis	Herbicide	4	50%	3 ounce	6.25	9.38		
Spray	Custom	5	10%	1 acre	7.00	0.70		
Brigade 2EC	Insecticide	5	10%	5.12 ounce	0.70	0.36		
Haul Grain Bushels	Custom	8	100%	165 bushel	0.11	18.15		
Dry 2 Points Removed	Custom	9	20%	165 bushel	0.08	2.64		
Scouting Dryland Corn	Scouting		100%	1 acre	7.00	7.00		
	Crop Insurance				23.00	23.00		
<b>Total Materials &amp; Services</b>							273.70	

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

Interest on Operations Capital \$ 308.97 cash expense @ 5.50% for 6.0 mo.

**Total Operating and Use Related Ownership Costs**

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

Real Estate Opportunity Dryland (Eastern) \$ 5,790 per acre @ 3.00%  
 Real Estate Taxes \$ 5,790 per acre @ 1.00%

**Total Cost per Acre Including Overhead**

**Cost per bu**

**Cash Cost per bu**

352.28

8.50

360.78

20.00

173.70

57.90

612.38

3.71

1.92

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

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
2 Spray Fertilizer	1		1.00	0.30	0.35	0.19	1.08	2.03	4.95	
3 Plant No-Till	1		2.40	0.95	0.86	4.41	2.70	6.13	17.45	
4 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
5 Spray Herbicide	0.5		0.50	0.15	0.17	0.14	0.54	0.02	1.52	
6 Spray Insecticide	Custom									
7 Combine Dryland Corn	1		3.14	4.23	7.31	1.53	5.84	4.33	26.38	
8 Cart	125	bu	1.79	0.69	0.70	1.14	2.19	0.67	7.18	
9 Truck	Custom									
10 Dry Grain	Custom									
<b>Total for Field Operations</b>			10.33	6.77	9.91	8.02	13.97	13.63	62.63	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate w/Surfactant
2,4-D Ester LV4	Herbicide	1	50%	1.0 pint	2.13	1.06		
21-0-0-24S	Additive	1	50%	1.7 pound	0.28	0.24		
32-0-0	Fertilizer	2	100%	80 lbs N	0.32	25.60		
Corn Bt, ECB, & RIB	Seed	3	100%	20.8 k seed	2.75	57.12		
10-34-0	Fertilizer	3	100%	6 gallon	2.30	13.80		
Acuron	Herbicide	4	100%	2.5 quart	15.00	37.50		
Crop Oil Concentrate	Additive	4	100%	1.6 pint	1.04	1.66		
21-0-0-24S	Additive	4	100%	2.5 pound	0.28	0.70		
Status	Herbicide	5	50%	2.5 ounce	4.30	5.38		
Atrazine 90 DF	Herbicide	5	50%	0.5 pound	3.80	0.95		
Crop Oil Concentrate	Additive	5	50%	1 pint	1.04	0.52		
UAN	Additive	5	50%	3 pint	0.16	0.24		
* Spray	Custom	6	30%	1 acre	7.00	2.10		
* Brigade 2EC	Insecticide	6	10%	5.12 ounce	0.70	0.36		
* Mustang Max EC	Insecticide	6	20%	2 ounce	1.41	0.56		
Haul Grain Bushels	Custom	9	100%	125 bushel	0.11	13.75		
Dry 2 Points Removed	Custom	10	10%	125 bushel	0.08	1.00		
Scouting Dryland Corn	Scouting		100%	1 acre	7.00	7.00		
	Crop Insurance				18.00	18.00		
<b>Total Materials &amp; Services</b>							189.42	

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

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

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

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
2 Spray Fertilizer	1		1.00	0.30	0.35	0.19	1.08	2.03	4.95	
3 Plant No-Till	1		2.40	0.95	0.86	4.41	2.70	6.13	17.45	
4 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
5 Spray Herbicide	0.5		0.50	0.15	0.17	0.14	0.54	0.02	1.52	
6 Spray Insecticide	Custom									
7 Combine Dryland Corn	1		3.14	4.23	7.31	1.53	5.84	4.33	26.38	
8 Cart	175	bu	2.50	0.96	0.98	1.60	3.06	0.94	10.04	
9 Truck	Custom									
10 Dry Grain	Custom									
<b>Total for Field Operations</b>			11.54	7.19	10.37	8.80	15.38	14.30	67.58	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							Glyphosate w/Surfactant
2,4-D Ester LV4	Herbicide	1	50%	1.0 pint	2.13	1.06	
21-0-0-24S	Additive	1	50%	1.7 pound	0.28	0.24	
32-0-0	Fertilizer	2	100%	130 lbs N	0.32	41.60	
Corn Bt, ECB, & RIB	Seed	3	100%	28.5 k seed	2.75	78.27	
10-34-0	Fertilizer	3	100%	6 gallon	2.30	13.80	
Acuron	Herbicide	4	100%	2.5 quart	15.00	37.50	
Crop Oil Concentrate	Additive	4	100%	1.6 pint	1.04	1.66	
21-0-0-24S	Additive	4	100%	2.5 pound	0.28	0.70	
Armezon Pro	Herbicide	5	50%	14 ounce	1.33	9.30	
Atrazine 90 DF	Herbicide	5	50%	0.5 pound	3.80	0.95	
Crop Oil Concentrate	Additive	5	50%	1 pint	1.04	0.52	
UAN	Additive	5	50%	3 pint	0.16	0.24	
* Spray	Custom	6	30%	1 acre	7.00	2.10	
* Brigade 2EC	Insecticide	6	10%	5.12 ounce	0.70	0.36	
* Mustang Max EC	Insecticide	6	20%	2 ounce	1.41	0.56	
Haul Grain Bushels	Custom	9	100%	175 bushel	0.11	19.25	
Dry 2 Points Removed	Custom	10	20%	175 bushel	0.08	2.80	
Scouting Dryland Corn	Scouting		100%	1 acre	7.00	7.00	
	Crop Insurance				24.00	24.00	
<b>Total Materials &amp; Services</b>						243.79	

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

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

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

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

Materials & Services	Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
			Rate	Unit			
Glyphosate w/Surfactant	Herbicide	1	100%	32 ounce	0.12	3.75	
21-0-0-24S	Additive	1	100%	1.7 pound	0.28	0.48	
Rugged	Herbicide	1	100%	1 quart	10.00	10.00	
AAtrex 4L	Herbicide	2	100%	1.5 quart	4.50	6.75	
Glyphosate w/Surfactant	Herbicide	2	100%	32 ounce	0.12	3.75	
21-0-0-24S	Additive	2	100%	1.7 pound	0.28	0.48	
32-0-0	Fertilizer	3	100%	115 lbs N	0.32	36.80	
AAtrex 4L	Herbicide	3	100%	0.5 quart	4.50	2.25	
Balance Flexx	Herbicide	3	100%	4 ounce	5.00	20.00	
10-34-0	Fertilizer	4	100%	6 gallon	2.30	13.80	
Corn Bt, ECB, RR2, & RIB	Seed	4	100%	19.2 k seed	3.00	57.69	
Glyphosate w/Surfactant	Herbicide	5	100%	32 ounce	0.12	3.75	
21-0-0-24S	Additive	5	100%	1.7 pound	0.28	0.48	
Laudis	Herbicide	5	50%	3 ounce	6.25	9.38	
* Spray	Custom	6	30%	1 acre	7.00	2.10	
* Brigade 2EC	Insecticide	6	10%	5.12 ounce	0.70	0.36	
* Mustang Max EC	Insecticide	6	20%	2 ounce	1.41	0.56	
Haul Grain Bushels	Custom	9	100%	115 bushel	0.11	12.65	
Dry 2 Points Removed	Custom	10	10%	115 bushel	0.08	0.92	
Scouting Dryland Corn	Scouting		100%	1 acre	7.00	7.00	
Crop Insurance					17.00	17.00	
<b>Total Materials &amp; Services</b>						209.95	

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

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

# 2018 Nebraska Crop Budgets

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

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**2018 Budget 26-Corn, Bt, ECB, RW, & RIB, Ridge Till, Continuous, 240 bu Yield Goal (225 bu Actual Yield)  
Gravity Irrigated, fed by a well, 1,000 GPM 10 PSI, 18 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
2 Anhydrous Application	1		1.83	1.49	0.72	0.58	2.25	3.63	10.50	
3 Ridge Plant and Band Herbicide	1		2.40	0.96	0.86	6.89	2.70	4.27	18.08	
4 Ridge Cultivation	1		2.00	1.50	0.86	0.89	2.70	1.01	8.96	
5 Ridge Cultivate/Ditch	1		1.83	1.25	0.72	0.37	2.25	1.52	7.94	
6 Spray Herbicide	Custom									
7 Spray	Custom									
8 Pipe D 125' Lift	18	ai	33.33	68.30	4.94	3.42	8.14	5.56	123.69	
9 Combine Irr Corn	1		3.14	4.23	7.31	1.53	5.84	4.33	26.38	
10 Cart	225	bu	3.21	1.23	1.26	2.06	3.94	1.21	12.91	
11 Truck	Custom									
12 Dry Grain	Custom									
13 Chop Stalks	1		1.78	1.31	0.70	0.35	2.19	1.59	7.92	
<b>Total for Field Operations</b>			50.02	80.42	17.54	16.41	30.55	23.53	218.47	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								2,4-D Ester LV4
Glyphosate w/Surfactant	Herbicide	1	50%	32 ounce	0.12	1.88		
21-0-0-24S	Additive	1	50%	1.7 pound	0.28	0.24		
82-0-0	Fertilizer	2	100%	225 lbs N	0.26	58.50		
Corn Bt, ECB, RW, & RIB	Seed	3	100%	36.9 k seed	3.13	115.38		
10-34-0	Fertilizer	3	100%	6 gallon	2.30	13.80		
Bicep II Magnum	Herbicide	3	40%	1.8 quart	11.25	8.10		
Spray	Custom	6	50%	1 acre	7.00	3.50		
Laudis	Herbicide	6	50%	3 ounce	6.25	9.38		
Atrazine 90 DF	Herbicide	6	50%	0.5 pound	3.80	0.95		
Crop Oil Concentrate	Additive	6	50%	1 pint	1.04	0.52		
UAN	Additive	6	50%	3 pint	0.16	0.24		
* Spray	Custom	6	30%	1 acre	7.00	2.10		
* Brigade 2EC	Insecticide	6	10%	5.12 ounce	0.70	0.36		
* Mustang Max EC	Insecticide	6	20%	2 ounce	1.41	0.56		
Spray	Custom	7	20%	1 acre	7.00	1.40		
Headline AMP	Fungicide	7	20%	10 ounce	2.58	5.16		
Haul Grain Bushels	Custom	11	100%	225 bushel	0.11	24.75		
Dry 2 Points Removed	Custom	12	20%	225 bushel	0.08	3.60		
Scouting Irrigated Corn	Scouting		100%	1 acre	9.00	9.00		
Crop Insurance					6.00	6.00		
<b>Total Materials &amp; Services</b>							266.48	

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

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

**2018 Budget 27-Corn, Bt, ECB, & RIB, Ridge Till, after Beans, 250 bu Yield Goal (235 bu Actual Yield)  
Gravity Irrigated, fed by a well, 1,000 GPM 10 PSI, 18 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
2 Anhydrous Application	1		1.83	1.49	0.72	0.58	2.25	3.63	10.50	
3 Ridge Plant and Band Herbicide	1		2.40	0.96	0.86	6.89	2.70	4.27	18.08	
4 Ridge Cultivation	1		2.00	1.50	0.86	0.89	2.70	1.01	8.96	
5 Ridge Cultivate/Ditch	1		1.83	1.25	0.72	0.37	2.25	1.52	7.94	
6 Spray Herbicide	Custom									
7 Spray	Custom									
8 Pipe D 125' Lift	18	ai	33.33	68.30	4.94	3.42	8.14	5.56	123.69	
9 Combine Irr Corn	1		3.14	4.23	7.31	1.53	5.84	4.33	26.38	
10 Cart	235	bu	3.36	1.29	1.32	2.15	4.11	1.27	13.50	
11 Truck	Custom									
12 Dry Grain	Custom									
<b>Total for Field Operations</b>			48.39	79.17	16.90	16.15	28.53	22.00	211.14	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								2,4-D Ester LV4
Glyphosate w/Surfactant	Herbicide	1	50%	32 ounce	0.12	1.88		
21-0-0-24S	Additive	1	50%	1.7 pound	0.28	0.24		
82-0-0	Fertilizer	2	100%	190 lbs N	0.26	49.40		
Corn Bt, ECB, & RIB	Seed	3	100%	38.5 k seed	2.75	105.77		
10-34-0	Fertilizer	3	100%	6 gallon	2.30	13.80		
Bicep II Magnum	Herbicide	3	40%	1.8 quart	11.25	8.10		
Spray	Custom	6	50%	1 acre	7.00	3.50		
Laudis	Herbicide	6	50%	3 ounce	6.25	9.38		
Atrazine 90 DF	Herbicide	6	50%	0.5 pound	3.80	0.95		
Crop Oil Concentrate	Additive	6	50%	1 pint	1.04	0.52		
UAN	Additive	6	50%	3 pint	0.16	0.24		
* Spray	Custom	6	30%	1 acre	7.00	2.10		
* Brigade 2EC	Insecticide	6	10%	5.12 ounce	0.70	0.36		
* Mustang Max EC	Insecticide	6	20%	2 ounce	1.41	0.56		
Spray	Custom	7	20%	1 acre	7.00	1.40		
Headline AMP	Fungicide	7	20%	10 ounce	2.58	5.16		
Haul Grain Bushels	Custom	11	100%	235 bushel	0.11	25.85		
Dry 2 Points Removed	Custom	12	20%	235 bushel	0.08	3.76		
Scouting Irrigated Corn	Scouting		100%	1 acre	9.00	9.00		
Crop Insurance					6.00	6.00		
<b>Total Materials &amp; Services</b>							249.03	

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

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

**2018 Budget 28-Corn, SmartStax RIB Complete, Ridge Till, Continuous, 245 bu Yield Goal (230 bu Actual Yield)  
Gravity Irrigated, fed by a well, 1,000 GPM 10 PSI, 18 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
2 Anhydrous Application	1		1.83	1.49	0.72	0.58	2.25	3.63	10.50	
3 Ridge Plant and Band Herbicide	1		2.40	0.96	0.86	6.89	2.70	4.27	18.08	
4 Ridge Cultivation	1		2.00	1.50	0.86	0.89	2.70	1.01	8.96	
5 Ridge Cultivate/Ditch	1		1.83	1.25	0.72	0.37	2.25	1.52	7.94	
6 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
7 Spray Insecticide	Custom									
8 Spray	Custom									
9 Pipe D 125' Lift	18	ai	33.33	68.30	4.94	3.42	8.14	5.56	123.69	
10 Combine Irr Corn	1		3.14	4.23	7.31	1.53	5.84	4.33	26.38	
11 Cart	230	bu	3.29	1.26	1.29	2.11	4.03	1.24	13.22	
12 Truck	Custom									
13 Dry Grain	Custom									
14 Chop Stalks	1		1.78	1.31	0.70	0.35	2.19	1.59	7.92	
<b>Total for Field Operations</b>			51.10	80.75	17.92	16.75	31.72	23.60	221.84	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Glyphosate w/Surfactant	Herbicide	1	50%	32 ounce	0.12	1.88
21-0-0-24S	Additive	1	50%	1.7 pound	0.28	0.24
82-0-0	Fertilizer	2	100%	230 lbs N	0.26	59.80
Corn SmartStax RIB Complete	Seed	3	100%	37.7 k seed	3.75	141.35
10-34-0	Fertilizer	3	100%	6 gallon	2.30	13.80
Bicep II Magnum	Herbicide	3	40%	1.8 quart	11.25	8.10
Glyphosate w/Surfactant	Herbicide	6	100%	32 ounce	0.12	3.75
21-0-0-24S	Additive	6	100%	1.7 pound	0.28	0.48
Status	Herbicide	6	100%	2.5 ounce	4.30	10.75
Spray	Custom	7	10%	1 acre	7.00	0.70
Brigade 2EC	Insecticide	7	10%	5.12 ounce	0.70	0.36
Spray	Custom	8	20%	1 acre	7.00	1.40
Headline AMP	Fungicide	8	20%	10 ounce	2.58	5.16
Haul Grain Bushels	Custom	12	100%	230 bushel	0.11	25.30
Dry 2 Points Removed	Custom	13	20%	230 bushel	0.08	3.68
Scouting Irrigated Corn	Scouting		100%	1 acre	9.00	9.00
Crop Insurance					6.00	6.00
<b>Total Materials &amp; Services</b>						292.81

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

Interest on Operations Capital \$ 459.33	cash expense @	5.50%	for 6.0 mo.	12.63
<b>Total Operating and Use Related Ownership Costs</b>				527.28
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)				20.00
Real Estate Opportunity	Gravity (State)	\$ 6,070	per acre @ 3.00%	182.10
Real Estate Taxes		\$ 6,070	per acre @ 1.00%	60.70
<b>Total Cost per Acre Including Overhead</b>				790.08
<b>Cost per bu</b>				3.44
<b>Cash Cost per bu</b>				2.05

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

**Gravity Irrigated, fed by canal, 15 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	2.14	0.30	1.27	4.04	1.14	10.91	
2 Field Cultivation	1		1.47	1.54	0.58	1.33	1.80	1.51	8.23	
3 Spray Fertilizer and Herbicide	1		1.00	0.30	0.35	0.00	1.08	17.38	20.11	
4 Plant	1		2.40	0.77	0.86	2.54	2.70	3.53	12.80	
5 Spread Fertilizer	1		1.57	0.86	0.68	0.64	2.12	1.51	7.38	
6 Row Crop Cultivation	1		2.00	0.90	0.78	0.44	2.45	1.52	8.09	
7 Ridge Cultivate/Ditch	1		1.83	1.25	0.72	0.37	2.25	1.52	7.94	
8 Spray Insecticide	Custom									
9 Spray	Custom									
10 Ditch Irrigation	15	ai	16.67	0.00	0.00	0.00	0.00	0.00	16.67	
11 Combine Irr Corn	1		3.14	4.23	7.31	1.53	5.84	4.33	26.38	
12 Cart	180	bu	2.57	0.99	1.01	1.65	3.15	0.97	10.34	
13 Truck	Custom									
14 Dry Grain	Custom									
15 Chop Stalks	1		1.78	1.31	0.70	0.35	2.19	1.59	7.92	
<b>Total for Field Operations</b>			36.45	14.29	13.29	10.12	27.62	35.00	136.77	

Materials & Services	Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate
			Rate	Unit			
32-0-0	Fertilizer	3	100%	180 lbs N	0.32	57.60	
Balance Flexx	Herbicide	3	100%	4 ounce	5.00	20.00	
Bicep II Magnum	Herbicide	3	100%	2.1 quart	11.25	23.63	
10-34-0	Fertilizer	4	100%	8 gallon	2.30	18.40	
Corn SmartStax RIB Complete	Seed	4	100%	29.2 k seed	3.75	109.62	
32-0-0	Fertilizer	5	100%	40 lbs N	0.32	12.80	
Spray	Custom	8	10%	1 acre	7.00	0.70	
Brigade 2EC	Insecticide	8	10%	5.12 ounce	0.70	0.36	
Spray	Custom	9	10%	1 acre	7.00	0.70	
Headline AMP	Fungicide	9	10%	10 ounce	2.58	2.58	
Haul Grain Bushels	Custom	13	100%	180 bushel	0.11	19.80	
Dry 2 Points Removed	Custom	14	10%	180 bushel	0.08	1.44	
Irrigation District O&M Charge	Other	10	100%	1 acre	30.00	30.00	
Scouting Irrigated Corn	Scouting		100%	1 acre	9.00	9.00	
	Crop Insurance				6.00	6.00	
<b>Total Materials &amp; Services</b>						312.63	

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

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

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
2 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
3 Plant No-Till	1		2.40	0.95	0.86	4.41	2.70	6.13	17.45	
4 Pivot D 125' Lift w/fertigation	9	ai	8.33	47.05	3.09	15.56	4.13	8.54	86.70	
5 Spray Herbicide	0.5		0.50	0.15	0.17	0.14	0.54	0.02	1.52	
6 Spray Insecticide	Custom									
7 Spray	Custom									
8 Combine Irr Corn	1		3.14	4.23	7.31	1.53	5.84	4.33	26.38	
9 Cart	225	bu	3.21	1.23	1.26	2.06	3.94	1.21	12.91	
10 Truck	Custom									
11 Dry Grain	Custom									
<b>Total for Field Operations</b>			19.08	54.06	13.21	24.31	18.77	20.68	150.11	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
2,4-D Ester LV4	Herbicide	1	50%	1 pint	2.13	1.06
Glyphosate w/Surfactant	Herbicide	1	50%	32 ounce	0.12	1.88
21-0-0-24S	Additive	1	50%	1.7 pound	0.28	0.24
Lumax EZ	Herbicide	2	100%	2.7 quart	20.00	54.00
Atrazine 4L	Herbicide	3	100%	1.0 quart	3.50	3.50
Corn Bt, ECB, RW, & RIB	Seed	3	100%	36.9 k seed	3.13	115.38
10-34-0	Fertilizer	3	100%	6 gallon	2.30	13.80
32-0-0 (Applied by R2)	Fertilizer	4	100%	225 lbs N	0.32	72.00
Status	Herbicide	5	50%	2.5 ounce	4.30	5.38
Atrazine 90 DF	Herbicide	5	50%	0.5 pound	3.80	0.95
Crop Oil Concentrate	Additive	5	50%	1 pint	1.04	0.52
UAN	Additive	5	50%	3 pint	0.16	0.24
* Spray	Custom	6	30%	1 acre	7.00	2.10
* Brigade 2EC	Insecticide	6	10%	5.12 ounce	0.70	0.36
* Mustang Max EC	Insecticide	6	20%	2 ounce	1.41	0.56
Spray	Custom	7	30%	1 acre	7.00	2.10
Headline AMP	Fungicide	7	30%	10 ounce	2.58	7.73
Haul Grain Bushels	Custom	10	100%	225 bushel	0.11	24.75
Dry 2 Points Removed	Custom	11	20%	225 bushel	0.08	3.60
Scouting Irrigated Corn	Scouting		100%	1 acre	9.00	9.00
Crop Insurance					6.00	6.00
<b>Total Materials &amp; Services</b>					325.15	

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

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

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

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
2 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
3 Plant	1		2.40	0.77	0.86	2.54	2.70	3.53	12.80	
4 Spray Herbicide	0.5		0.50	0.15	0.17	0.14	0.54	0.02	1.52	
5 Spray Insecticide	Custom									
6 Spray	Custom									
7 Pivot D 125' Lift w/fertigation	9	ai	8.33	47.05	3.09	15.56	4.13	8.54	86.70	
8 Combine Irr Corn	1		3.14	4.23	7.31	1.53	5.84	4.33	26.38	
9 Cart	230		3.29	1.26	1.29	2.11	4.03	1.24	13.22	
10 Truck	Custom	bu								
11 Dry Grain	Custom									
<b>Total for Field Operations</b>			19.16	53.91	13.24	22.49	18.86	18.11	145.77	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Glyphosate w/Surfactant	Herbicide	1	50%	32 ounce	0.12	1.88
21-0-0-24S	Additive	1	50%	1.7 pound	0.28	0.24
Lumax EZ	Herbicide	2	100%	2.7 quart	20.00	54.00
Corn SmartStax RIB Complete	Seed	3	100%	37.7 k seed	3.75	141.35
10-34-0	Fertilizer	3	100%	6 gallon	2.30	13.80
32-0-0 (Applied by R2)	Fertilizer	7	100%	230 lbs N	0.32	73.60
Glyphosate w/Surfactant	Herbicide	4	50%	32 ounce	0.12	1.88
21-0-0-24S	Additive	4	50%	1.7 pound	0.28	0.24
Armezon Pro	Herbicide	4	50%	14 ounce	1.33	9.30
Spray	Custom	5	10%	1 acre	7.00	0.70
Brigade 2EC	Insecticide	5	10%	5.12 ounce	0.70	0.36
Spray	Custom	6	30%	1 acre	7.00	2.10
Headline AMP	Fungicide	6	30%	10 ounce	2.58	7.73
Haul Grain Bushels	Custom	10	100%	230 bushel	0.11	25.30
Dry 2 Points Removed	Custom	11	20%	230 bushel	0.08	3.68
Scouting Irrigated Corn	Scouting		100%	1 acre	9.00	9.00
	Crop Insurance				6.00	6.00
<b>Total Materials &amp; Services</b>						352.22

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

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

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	0.5		0.50	0.15	0.17	0.32	0.54	0.41	2.09	
2 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
3 Plant No-Till	1		2.40	0.95	0.86	4.41	2.70	6.13	17.45	
4 Pivot D 125' Lift w/fertigation	9	ai	8.33	47.05	3.09	15.56	4.13	8.54	86.70	
5 Spray Herbicide	0.5		0.50	0.15	0.17	0.14	0.54	0.02	1.52	
6 Spray Insecticide	Custom									
7 Spray	Custom									
8 Combine Irr Corn	1		3.14	4.23	7.31	1.53	5.84	4.33	26.38	
9 Cart	255	bu	3.64	1.40	1.43	2.33	4.46	1.38	14.64	
10 Truck	Custom									
11 Dry Grain	Custom									
<b>Total for Field Operations</b>			19.51	54.23	13.38	24.58	19.29	20.85	151.84	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate	Unit	Applied Price	Total	Your Estimate
2,4-D Ester LV4	Herbicide	1	50%	1 pint	2.13	1.06	
21-0-0-24S	Additive	1	50%	1.7 pound	0.28	0.24	
Acuron	Herbicide	2	100%	2.5 quart	15.00	37.50	
Crop Oil Concentrate	Additive	2	100%	1.6 pint	1.04	1.66	
21-0-0-24S	Additive	2	100%	2.5 pound	0.28	0.70	
Corn Bt, ECB, & RIB	Seed	3	100%	41.5 k seed	2.75	114.23	
10-34-0	Fertilizer	3	100%	6.0 gallon	2.30	13.80	
32-0-0 (Applied by R2)	Fertilizer	4	100%	200.0 lbs N	0.32	64.00	
Armezon Pro	Herbicide	5	50%	14 ounce	1.33	9.30	
Atrazine 90 DF	Herbicide	5	50%	1 pound	3.80	0.95	
Crop Oil Concentrate	Additive	5	50%	0.5 pint	1.04	0.26	
UAN	Additive	5	50%	3 pint	0.16	0.24	
* Spray	Custom	6	30%	1 acre	7.00	2.10	
* Brigade 2EC	Insecticide	6	10%	5.12 ounce	0.70	0.36	
* Mustang Max EC	Insecticide	6	20%	2 ounce	1.41	0.56	
Spray	Custom	7	20%	1 acre	7.00	1.40	
Headline AMP	Fungicide	7	20%	10 ounce	2.58	5.16	
Haul Grain Bushels	Custom	10	100%	255 bushel	0.11	28.05	
Dry 2 Points Removed	Custom	11	20%	255 bushel	0.08	4.08	
Scouting Irrigated Corn	Scouting		100%	1 acre	9.00	9.00	
	Crop Insurance				6.76	6.76	
<b>Total Materials &amp; Services</b>						303.29	

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

**Total listed costs for Field Operations and Materials and Services** 455.13

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

**Total Operating and Use Related Ownership Costs** 466.54

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

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

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

**Total Cost per Acre Including Overhead** 738.34

**Cost per bu** 2.90

**Cash Cost per bu** 1.67

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

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

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

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

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

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

**Total Operating and Use Related Ownership Costs**

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

Real Estate Opportunity  \$ 6,295 per acre @ 3.00%  
Real Estate Taxes \$ 6,295 per acre @ 1.00%

**Total Cost per Acre Including Overhead**

**Cost per bu**

**Cash Cost per bu**

20.00  
12.28  
513.12  
20.00  
188.85  
62.95  
784.92  
3.65  
2.13



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

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

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Balance Flexx
Bicep II Magnum	Herbicide	2	100%	2.1 quart	11.25	23.63		
Corn Bt, ECB, & RIB	Seed	3	100%	36.9 k seed	2.75	101.54		
10-34-0	Fertilizer	3	100%	6 gallon	2.30	13.80		
32-0-0 (Applied by R2)	Fertilizer	8	100%	180 lbs N	0.32	57.60		
* Spray	Custom	6	30%	1 acre	7.00	2.10		
* Brigade 2EC	Insecticide	6	10%	5.12 ounce	0.70	0.36		
* Mustang Max EC	Insecticide	6	20%	2 ounce	1.41	0.56		
Spray	Custom	7	20%	1 acre	7.00	1.40		
Headline AMP	Fungicide	7	20%	10 ounce	2.58	5.16		
Haul Grain Bushels	Custom	11	100%	225 bushel	0.11	24.75		
Dry 2 Points Removed	Custom	12	20%	225 bushel	0.08	3.60		
Scouting Irrigated Corn	Scouting		100%	1 acre	9.00	9.00		
	Crop Insurance				6.00	6.00		
<b>Total Materials &amp; Services</b>							269.50	

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

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

Interest on Operations Capital \$ 418.99	cash expense @ 5.50% for 6.0 mo.	468.24	
<b>Total Operating and Use Related Ownership Costs</b>		479.76	

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

Real Estate Opportunity	Pivot (State)	\$ 6,295	per acre @ 3.00%	188.85
Real Estate Taxes		\$ 6,295	per acre @ 1.00%	62.95

**Total Cost per Acre Including Overhead** 751.56

**Cost per bu** 3.34

**Cash Cost per bu** 1.91

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

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

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								32-0-0
Balance Flexx	Herbicide	3	100%	4 ounce	5.00	20.00		
Bicep II Magnum	Herbicide	3	100%	2.1 quart	11.25	23.63		
10-34-0	Fertilizer	4	100%	8 gallon	2.30	18.40		
Corn SmartStax RIB Complete	Seed	4	100%	29.2 k seed	3.75	109.62		
32-0-0 (Applied by R2)	Fertilizer	8	100%	40 lbs N	0.32	12.80		
Spray	Custom	6	100%	1 acre	7.00	7.00		
Glyphosate w/Surfactant	Herbicide	6	100%	32 ounce	0.12	3.75		
Armezon Pro	Herbicide	6	100%	14 ounce	1.33	18.59		
21-0-0-24S	Additive	6	100%	1.7 pound	0.28	0.48		
Aerial Spray	Custom	7	10%	1 acre	10.00	1.00		
Brigade 2EC	Insecticide	7	10%	5.12 ounce	0.70	0.36		
Aerial Spray	Custom	7	10%	1 acre	10.00	1.00		
Headline AMP	Fungicide	7	10%	10 ounce	2.58	2.58		
Electricity Fixed	Other	8	100%	1 acre	30.00	30.00		
Haul Grain Bushels	Custom	12	100%	180 bushel	0.11	19.80		
Dry 2 Points Removed	Custom	13	10%	180 bushel	0.08	1.44		
Scouting Irrigated Corn	Scouting		100%	1 acre	9.00	9.00		
	Crop Insurance				6.00	6.00		
<b>Total Materials &amp; Services</b>							343.05	

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

**2018 Budget 36-Corn, Bt, ECB, RR2, & RIB, Panhandle, Conventional Tillage, after Beans, 200 bu Yield Goal (190 bu Actual Yield)**

**Pivot Irrigated Electric, 800 GPM 35 PSI, 13 acre/inches**

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

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							32-0-0
Balance Flexx	Herbicide	2	100%	4 ounce	5.00	20.00	
Bicep II Magnum	Herbicide	2	100%	2.1 quart	11.25	23.63	
10-34-0	Fertilizer	3	100%	8 gallon	2.30	18.40	
Corn Bt, ECB, RR2, & RIB	Seed	3	100%	30.8 k seed	3.00	92.31	
32-0-0 (Applied by R2)	Fertilizer	8	100%	40 lbs N	0.32	12.80	
Spray	Custom	5	100%	1 acre	7.00	7.00	
Glyphosate w/Surfactant	Herbicide	5	100%	32 ounce	0.12	3.75	
DiFlexx	Herbicide	5	100%	12 ounce	1.72	20.63	
Aerial Spray	Custom	6	10%	1 acre	10.00	1.00	
Brigade 2EC	Insecticide	6	10%	5.12 ounce	0.70	0.36	
Aerial Spray	Custom	7	10%	1 acre	10.00	1.00	
Headline AMP	Fungicide	7	10%	10 ounce	2.58	2.58	
Electricity Fixed	Other	8	100%	1 acre	30.00	30.00	
Haul Grain Bushels	Custom	11	100%	190 bushel	0.11	20.90	
Dry 2 Points Removed	Custom	12	10%	190 bushel	0.08	1.52	
Scouting Irrigated Corn	Scouting		100%	1 acre	9.00	9.00	
	Crop Insurance				6.00	6.00	
<b>Total Materials &amp; Services</b>						317.28	

<b>Total listed costs for Field Operations and Materials and Services</b>		482.03
Interest on Operations Capital \$ 433.88 cash expense @ 5.50% for 6.0 mo.		11.93
<b>Total Operating and Use Related Ownership Costs</b>		493.96
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)		20.00
Real Estate Opportunity <span style="border: 1px solid black; padding: 2px;">Pivot (Panhandle)</span> \$ 2,815 per acre @ 3.00%		84.45
Real Estate Taxes \$ 2,815 per acre @ 1.00%		28.15
<b>Total Cost per Acre Including Overhead</b>		626.56
<b>Cost per bu</b>		3.30
<b>Cash Cost per bu</b>		2.35

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

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

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							Balance Flexx
Bicep II Magnum	Herbicide	3	100%	2.1 quart	11.25	23.63	
Corn SmartStax RIB Complete	Seed	4	100%	36.2 k seed	3.75	135.58	
10-34-0	Fertilizer	4	100%	6 gallon	2.30	13.80	
32-0-0 (Applied by R2)	Fertilizer	9	100%	220 lbs N	0.32	70.40	
Spray	Custom	7	10%	1 acre	7.00	0.70	
Brigade 2EC	Insecticide	7	10%	5.12 ounce	0.70	0.36	
Spray	Custom	8	20%	1 acre	7.00	1.40	
Headline AMP	Fungicide	8	20%	10 ounce	2.58	5.16	
Haul Grain Bushels	Custom	12	100%	220 bushel	0.11	24.20	
Dry 2 Points Removed	Custom	13	20%	220 bushel	0.08	3.52	
Scouting Irrigated Corn	Scouting		100%	1 acre	9.00	9.00	
	Crop Insurance				6.12	6.12	
<b>Total Materials &amp; Services</b>		31,200 seeds per acre, 80,000 per bag, 5% Refuge				313.87	

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

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

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

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								2,4-D Ester LV4
Uncomposted manure	Fertilizer	2	100%	20 ton	1.00	20.00		
Haul & Apply Manure	Custom	2	100%	20 ton	6.00	120.00		
Bicep II Magnum	Herbicide	3	100%	1.4 quart	11.25	15.75		
Corn	Seed	3	100%	30.8 k seed	2.38	73.08		
* Capture LFR	Insecticide	3	100%	6.6 ounce	2.34	15.47		
Spray	Custom	4	50%	1 acre	7.00	3.50		
Armezon Pro	Herbicide	4	50%	14 ounce	1.33	9.30		
NIS	Additive	4	50%	6 ounce	0.09	0.26		
UAN	Additive	4	50%	4 pint	0.16	0.33		
* Aerial Spray	Custom	6	15%	1 acre	10.00	1.50		
* Brigade 2EC	Insecticide	6	10%	2.5 ounce	0.70	0.18		
* Mustang Max EC	Insecticide	6	5%	2 ounce	1.41	0.14		
Chop, Haul, Pack	Custom	7	100%	26 ton	10.75	279.50		
Scouting Irrigated Corn	Scouting		100%	1 acre	9.00	9.00		
	Crop Insurance				6.00	6.00		
<b>Total Materials &amp; Services</b>							556.14	

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

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

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Developed and  
Edited by

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

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

Jessica T. Groskopf, Extension Educator — Agricultural Economics

Jim A. Jansen, Extension Educator — Agricultural Economics

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

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

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

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**2018 Budget 77-Cover Crop, Conventional Tillage**

<b>Field Operations</b>		<b>Times or Qty</b>	<b>Labor @ Unit</b>	<b>Fuel @ \$2.45 and Lube</b>	<b>Repairs</b>		<b>Ownership</b>		<b>Total</b>	<b>Your Estimate</b>
			<b>\$20.00 /Hr</b>		<b>Power</b>	<b>Imp.</b>	<b>Power</b>	<b>Imp.</b>		
1	Disk	1	2.02	2.14	0.30	1.27	4.04	1.14	10.91	_____
2	Broadcast Seed	Custom								_____
3	Field Cultivation	1	1.47	1.54	0.58	1.33	1.80	1.51	8.23	_____
<b>Total for Field Operations</b>			3.49	3.68	0.88	2.60	5.84	2.65	19.14	_____
<b>Materials &amp; Services</b>				<b>Operation Index</b>	<b>Percent Acres Applied</b>	<b>Application Rate Unit</b>	<b>Applied Price</b>	<b>Total</b>	<b>Your Estimate</b>	
	Cover Crop	Seed		2	100%	1 acre	15.00	15.00	_____	
	Broadcast Seed	Custom		2	100%	1 acre	5.00	5.00	_____	
<b>Total Materials &amp; Services</b>								20.00	_____	
<b>Total listed costs for Field Operations and Materials and Services</b>									39.14	_____
Interest on Operations Capital \$ 30.65 cash expense @ 5.50% for 6.0 mo.									0.84	_____
<b>Total Operating and Use Related Ownership Costs</b>									39.98	_____
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)									0.00	_____
Real Estate Opportunity <input type="text"/> \$ - per acre @ 3.00%									0.00	_____
Real Estate Taxes \$ - per acre @ 1.00%									0.00	_____
<b>Total Cost per Acre Including Overhead</b>									39.98	_____

**2018 Budget 78-Cover Crop, No Till**

<b>Field Operations</b>		<b>Times or Qty</b>	<b>Labor @ Unit</b>	<b>Fuel @ \$2.45 and Lube</b>	<b>Repairs</b>		<b>Ownership</b>		<b>Total</b>	<b>Your Estimate</b>
			<b>\$20.00 /Hr</b>		<b>Power</b>	<b>Imp.</b>	<b>Power</b>	<b>Imp.</b>		
1	No-Till Drill	1	1.83	1.43	0.72	1.57	2.25	3.21	11.01	
2	Spray Herbicide	1	1.00	0.30	0.35	0.29	1.08	0.04	3.06	
<b>Total for Field Operations</b>			2.83	1.73	1.07	1.86	3.33	3.25	14.07	
<b>Materials &amp; Services</b>				<b>Operation Index</b>	<b>Percent Acres Applied</b>	<b>Application Rate Unit</b>	<b>Applied Price</b>	<b>Total</b>	<b>Your Estimate</b>	
	Cover Crop	Seed		1	100%	1 acre	15.00	15.00		
*	2,4-D Ester LV4	Herbicide		2	100%	1 pint	2.13	2.13		
	Glyphosate w/Surfactant	Herbicide		2	100%	32 ounce	0.12	3.75		
<b>Total Materials &amp; Services</b>									20.88	
<b>Total listed costs for Field Operations and Materials and Services</b>									34.95	
Interest on Operations Capital \$ 28.37 cash expense @ 5.50% for 6.0 mo.									0.78	
<b>Total Operating and Use Related Ownership Costs</b>									35.73	
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)									0.00	
Real Estate Opportunity <input type="text"/> \$ - per acre @ 3.00%									0.00	
Real Estate Taxes \$ - per acre @ 1.00%									0.00	
<b>Total Cost per Acre Including Overhead</b>									35.73	



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

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

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Prowl H2O	Herbicide	3	100%	2 pint	6.50	13.00	
Edible Beans	Seed	4	100%	0.65 cwt	92.00	59.80	
10-34-0-1Zn	Fertilizer	4	100%	7 gallon	2.35	16.45	
46-0-0	Fertilizer	4	100%	50 lbs N	0.36	18.00	
Electricity Fixed	Other	5	100%	1 acre	30.00	30.00	
Basagran	Herbicide	6	60%	1 pint	10.00	6.00	
Raptor	Herbicide	6	60%	4 ounce	4.77	11.44	
NIS	Additive	6	60%	5 ounce	0.09	0.26	
UAN	Additive	6	60%	4 pint	0.16	0.39	
* Aerial Spray	Custom	7	60%	1 acre	10.00	6.00	
* Asana XL	Insecticide	7	60%	4.5 ounce	0.55	1.48	
Aerial Spray	Custom	8	100%	1 acre	10.00	10.00	
Copper	Fungicide	8	100%	2 pint	3.50	7.00	
Priaxor	Fungicide	8	100%	4 ounce	5.47	21.88	
Haul Grain (Dry Beans)	Custom	11	100%	27 cwt	0.28	7.56	
Wheat	Seed	12	100%	30 pound	0.10	3.00	
Scouting Dry Beans	Scouting		100%	1 acre	10.00	10.00	
Crop Insurance					16.30	16.30	
<b>Total Materials &amp; Services</b>						254.97	

Electricity connect fee 6 months @ \$72/mo 133 acres

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

**Total listed costs for Field Operations and Materials and Services** 402.27

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

**Total Operating and Use Related Ownership Costs** 412.03

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

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

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

**Total Cost per Acre Including Overhead** 544.63

**Cost per cwt** 20.17

**Cash Cost per cwt** 13.50

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

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Chop Stalks	1		1.78	1.31	0.70	0.35	2.19	1.59	7.92	
2 Disk	2		4.03	4.28	0.60	2.54	8.07	2.27	21.79	
3 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
4 Plow	1		2.93	2.25	0.44	0.86	5.87	0.52	12.87	
5 Roller Harrow	1		2.00	1.41	0.86	0.52	2.70	1.52	9.01	
6 Field Cultivation	1		1.47	1.54	0.58	1.33	1.80	1.51	8.23	
7 Plant	1		2.40	0.77	0.86	2.54	2.70	3.53	12.80	
8 Spray Herbicide	0.6		0.60	0.18	0.21	0.17	0.65	0.03	1.84	
9 Row Crop Cultivation	1		2.00	0.90	0.78	0.44	2.45	1.52	8.09	
10 Ridge Cultivate/Ditch	1		1.83	1.25	0.72	0.37	2.25	1.52	7.94	
11 Ditch Irrigation	10	ai	11.11	0.00	0.00	0.00	0.00	0.00	11.11	
12 Aerial Spray	Custom									
13 Aerial Spray	Custom									
14 Pickett Windrowers	1		2.20	1.71	0.86	0.72	2.70	1.27	9.46	
15 Combine Irr Dry Beans	1		4.40	5.92	10.23	2.03	8.17	2.65	33.40	
16 Truck	Custom									
17 Chisel	1		1.98	2.10	0.78	2.11	2.43	1.51	10.91	
<b>Total for Field Operations</b>			39.73	23.92	17.97	14.27	43.06	19.48	158.43	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Prowl H2O	Herbicide	3	100%	2 pint	6.50	13.00	
Edible Beans	Seed	7	100%	0.65 cwt	92.00	59.80	
10-34-0-1Zn	Fertilizer	7	100%	7 gallon	2.35	16.45	
46-0-0	Fertilizer	7	100%	50 lbs N	0.36	18.00	
Basagran	Herbicide	8	60%	1 pint	10.00	6.00	
Raptor	Herbicide	8	60%	4 ounce	4.77	11.44	
NIS	Additive	8	60%	5 ounce	0.09	0.26	
UAN	Additive	8	60%	4 pint	0.16	0.39	
* Aerial Spray	Custom	12	60%	1 acre	10.00	6.00	
* Asana XL	Insecticide	12	60%	4.5 ounce	0.55	1.48	
Aerial Spray	Custom	13	100%	1 acre	10.00	10.00	
Copper	Fungicide	13	100%	2 pint	3.50	7.00	
Priaxor	Fungicide	13	100%	4 ounce	5.47	21.88	
Haul Grain (Dry Beans)	Custom	16	100%	27 cwt	0.28	7.56	
Irrigation District O&M Charge	Other	11	100%	1 acre	30.00	30.00	
Scouting Dry Beans	Scouting		100%	1 acre	10.00	10.00	
	Crop Insurance				16.30	16.30	
<b>Total Materials &amp; Services</b>						251.97	

\* Mexican Bean Beetle and Western Bean Cutworm

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

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

<b>Cost per cwt</b>	20.12
<b>Cash Cost per cwt</b>	13.24

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

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

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Prowl H2O	Herbicide	3	100%	2 pint	6.50	13.00	
Edible Beans	Seed	5	100%	0.65 cwt	92.00	59.80	
10-34-0-1Zn	Fertilizer	5	100%	7 gallon	2.35	16.45	
46-0-0	Fertilizer	5	100%	50 lbs N	0.36	18.00	
Raptor	Herbicide	6	60%	4 ounce	4.77	11.44	
Basagran	Herbicide	6	60%	1 pint	10.00	6.00	
NIS	Additive	6	60%	5 ounce	0.09	0.26	
UAN	Additive	6	60%	4 pint	0.16	0.39	
Electricity Fixed	Other	8	100%	1 acre	30.00	30.00	
* Aerial Spray	Custom	9	60%	1 acre	10.00	6.00	
* Asana XL	Insecticide	9	60%	4.5 ounce	0.55	1.48	
Aerial Spray	Custom	10	100%	1 acre	10.00	10.00	
Copper	Fungicide	10	100%	2 pint	3.50	7.00	
Priaxor	Fungicide	10	100%	4 ounce	5.47	21.88	
Haul Grain (Dry Beans)	Custom	13	100%	27 cwt	0.28	7.56	
Scouting Dry Beans	Scouting		100%	1 acre	10.00	10.00	
	Crop Insurance				16.30	16.30	
<b>Total Materials &amp; Services</b>						251.97	

\* Mexican Bean Beetle and Western Bean Cutworm

<b>Total listed costs for Field Operations and Materials and Services</b>						423.82	
Interest on Operations Capital \$ 366.86	cash expense @	5.50%	for 6.0 mo.			10.09	
<b>Total Operating and Use Related Ownership Costs</b>						433.91	
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Pivot (Panhandle)	\$ 2,815	per acre @	3.00%		84.45	
Real Estate Taxes		\$ 2,815	per acre @	1.00%		28.15	
<b>Total Cost per Acre Including Overhead</b>						566.51	
<b>Cost per cwt</b>						20.98	
<b>Cash Cost per cwt</b>						13.96	

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

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

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Prowl H2O	Herbicide	3	100%	2 pint	6.50	13.00	
Edible Beans	Seed	5	100%	1 cwt	92.00	92.00	
10-34-0-1Zn	Fertilizer	5	100%	7 gallon	2.35	16.45	
46-0-0	Fertilizer	5	100%	50 lbs N	0.36	18.00	
Raptor	Herbicide	6	60%	4 ounce	4.77	11.44	
Basagran	Herbicide	6	60%	1 pint	10.00	6.00	
NIS	Additive	6	60%	5 ounce	0.09	0.26	
UAN	Additive	6	60%	4 pint	0.16	0.39	
Electricity Fixed	Other	7	100%	1 acre	30.00	30.00	
* Aerial Spray	Custom	8	60%	1 acre	10.00	6.00	
* Asana XL	Insecticide	8	60%	4.5 ounce	0.55	1.48	
Aerial Spray	Custom	9	100%	1 acre	10.00	10.00	
Copper	Fungicide	9	100%	2 pint	3.50	7.00	
Priaxor	Fungicide	9	100%	4 ounce	5.47	21.88	
Gramoxone SL	Herbicide	10	100%	2 pint	2.50	5.00	
Haul Grain (Dry Beans)	Custom	12	100%	27 cwt	0.28	7.56	
Scouting Dry Beans	Scouting		100%	1 acre	10.00	10.00	
Crop Insurance					16.30	16.30	
<b>Total Materials &amp; Services</b>						289.17	

\* Mexican Bean Beetle and Western Bean Cutworm

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

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

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

<b>Total Cost per Acre Including Overhead</b>	590.03
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**Cost per cwt** 21.85

**Cash Cost per cwt** 15.08

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

# 2018 Nebraska Crop Budgets

Developed and  
Edited by

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

## Additional Resource Persons

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

Robert J. Wright, Extension Entomologist

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

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

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

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

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

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							82-0-0
10-34-0	Fertilizer	4	100%	6 gallon	2.30	13.80	
Lumax EZ	Herbicide	4	100%	2.7 quart	20.00	54.00	
AAtrex 4L	Herbicide	4	100%	0.5 quart	4.50	2.25	
Sorghum Safened/Insect	Seed	5	100%	4 pound	3.00	12.00	
Huskie	Herbicide	8	50%	11 ounce	0.94	5.16	
21-0-0-24S	Additive	8	50%	1 pound	0.28	0.14	
* Aerial Spray	Custom	9	15%	1 acre	10.00	1.50	
* Lorsban Advanced	Insecticide	9	15%	1.5 pint	6.88	1.55	
Haul Grain Bushels	Custom	12	100%	95 bushel	0.11	10.45	
Scouting Grain Sorghum	Scouting		100%	1 acre	7.00	7.00	
	Crop Insurance				8.82	8.82	
<b>Total Materials &amp; Services</b>						142.67	

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

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

Interest on Operations Capital \$ 192.75 cash expense @ 5.50% for 6.0 mo. 231.10

**Total Operating and Use Related Ownership Costs** 236.40

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

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

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

**Total Cost per Acre Including Overhead** 304.28

**Cost per bu** 3.20

**Cash Cost per bu** 2.08

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

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

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1	Spray Spring Burndown Herbicide	1	1.00	0.30	0.35	0.64	1.08	0.81	4.18	
2	Spray Fertilizer and Herbicide	1	1.00	0.30	0.35	0.00	1.08	17.38	20.11	
3	Plant No-Till	1	2.40	0.95	0.86	4.41	2.70	6.13	17.45	
4	Spray Herbicide	0.5	0.50	0.15	0.17	0.14	0.54	0.02	1.52	
5	Aerial Spray	Custom								
6	Combine Dryland SG	1	3.38	4.55	7.87	1.11	6.29	2.65	25.85	
7	Cart	115	bu							
8	Truck	Custom								
<b>Total for Field Operations</b>			8.28	6.25	9.60	6.30	11.69	26.99	69.11	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate w/Surfactant
2,4-D Ester LV4	Herbicide	1	100%	1 pint	2.13	2.13		
21-0-0-24S	Additive	1	100%	1.7 pound	0.28	0.48		
32-0-0	Fertilizer	2	100%	120 lbs N	0.32	38.40		
Lumax EZ	Herbicide	2	100%	2.7 quart	20.00	54.00		
AAtrex 4L	Herbicide	2	100%	0.5 quart	4.50	2.25		
10-34-0	Fertilizer	3	100%	6 gallon	2.30	13.80		
Sorghum Safened/Insect	Seed	3	100%	4 pound	3.00	12.00		
Huskie	Herbicide	4	50%	11 ounce	0.94	5.16		
21-0-0-24S	Additive	4	50%	1 pound	0.28	0.14		
* Aerial Spray	Custom	5	15%	1 acre	10.00	1.50		
* Lorsban Advanced	Insecticide	5	15%	1.5 pint	6.88	1.55		
Haul Grain Bushels	Custom	8	100%	115 bushel	0.11	12.65		
Scouting Grain Sorghum	Scouting		100%	1 acre	7.00	7.00		
	Crop Insurance				9.58	9.58		
<b>Total Materials &amp; Services</b>							164.39	

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

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

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

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

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

<b>Total Cost per Acre Including Overhead</b>	346.93
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<b>Cost per bu</b>	3.02
<b>Cash Cost per bu</b>	1.74

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



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

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
2 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
3 Spray Fertilizer and Herbicide	1		1.00	0.30	0.35	0.00	1.08	17.38	20.11	
4 No-Till Drill	1		1.83	1.43	0.72	1.57	2.25	3.21	11.01	
5 Spray Herbicide	0.5		0.50	0.15	0.17	0.14	0.54	0.02	1.52	
6 Aerial Spray	Custom									
7 Combine Dryland SG	1		3.38	4.55	7.87	1.11	6.29	2.65	25.85	
8 Cart	105	bu	1.50	0.58	0.59	0.96	1.84	0.57	6.04	
9 Truck	Custom									
<b>Total for Field Operations</b>			10.21	7.61	10.40	4.71	14.16	24.68	71.77	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
2,4-D Ester LV4	Herbicide	1	100%	1 pint	2.13	2.13	
21-0-0-24S	Additive	1	100%	1.7 pound	0.28	0.48	
AAtrex 4L	Herbicide	2	100%	1 quart	4.50	4.50	
Gramoxone SL	Herbicide	2	100%	1.5 pint	2.50	3.75	
32-0-0	Fertilizer	3	100%	110 lbs N	0.32	35.20	
Lumax EZ	Herbicide	3	100%	2.7 quart	20.00	54.00	
10-34-0	Fertilizer	4	100%	6 gallon	2.30	13.80	
Sorghum Safened/Insect	Seed	4	100%	4 pound	3.00	12.00	
Huskie	Herbicide	5	50%	11 ounce	0.94	5.16	
21-0-0-24S	Additive	5	50%	1 pound	0.28	0.14	
* Aerial Spray	Custom	6	15%	1 acre	10.00	1.50	
* Lorsban Advanced	Insecticide	6	15%	1.5 pint	6.88	1.55	
Haul Grain Bushels	Custom	9	100%	105 bushel	0.11	11.55	
Scouting Grain Sorghum	Scouting		100%	1 acre	7.00	7.00	
	Crop Insurance				9.22	9.22	
<b>Total Materials &amp; Services</b>						165.73	

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

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

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

**Total Operating and Use Related Ownership Costs**

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

\*\* Real Estate Opportunity Dryland (Southwest) \$ 1,197 per acre @ 3.00% 35.91  
 \*\* Real Estate Taxes \$ 1,197 per acre @ 1.00% 11.97

**Total Cost per Acre Including Overhead**

**Cost per bu**

**Cash Cost per bu**

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

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

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
2 Anhydrous Application	1		1.83	1.49	0.72	0.58	2.25	3.63	10.50	
3 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
4 Plant No-Till	1		2.40	0.95	0.86	4.41	2.70	6.13	17.45	
5 Spray Herbicide	0.5		0.50	0.15	0.17	0.14	0.54	0.02	1.52	
6 Aerial Spray	Custom									
7 Pivot D 125' Lift	6	ai	4.17	31.37	2.06	9.68	2.75	5.32	55.35	
8 Combine Irr SG	1		3.38	4.55	7.87	1.11	6.29	2.65	25.85	
9 Cart	150	bu	2.14	0.82	0.84	1.37	2.63	0.81	8.61	
10 Truck	Custom									
<b>Total for Field Operations</b>			16.42	39.93	13.22	18.22	19.32	19.41	126.52	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate w/Surfactant
2,4-D Ester LV4	Herbicide	1	100%	1 pint	2.13	2.13		
21-0-0-24S	Additive	1	100%	1.7 pound	0.28	0.48		
82-0-0	Fertilizer	2	100%	150 lbs N	0.26	39.00		
Lumax EZ	Herbicide	3	100%	2.7 quart	20.00	54.00		
AAtrex 4L	Herbicide	3	100%	0.5 quart	4.50	2.25		
10-34-0	Fertilizer	4	100%	6 gallon	2.30	13.80		
Sorghum Safened/Insect	Seed	4	100%	6 pound	3.00	18.00		
Huskie	Herbicide	5	50%	11 ounce	0.94	5.16		
21-0-0-24S	Additive	5	50%	1 pound	0.28	0.14		
* Aerial Spray	Custom	6	15%	1 acre	10.00	1.50		
* Lorsban Advanced	Insecticide	6	15%	1.5 pint	6.88	1.55		
Haul Grain Bushels	Custom	10	100%	150 bushel	0.11	16.50		
Scouting Grain Sorghum	Scouting		100%	1 acre	7.00	7.00		
	Crop Insurance				7.33	7.33		
<b>Total Materials &amp; Services</b>							172.59	

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

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

Interest on Operations Capital \$ 260.38 cash expense @ 5.50% for 6.0 mo.

**Total Operating and Use Related Ownership Costs**

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

\*\* Real Estate Opportunity Pivot (Marginal Land) \$ 3,085 per acre @ 3.00%  
 \*\* Real Estate Taxes \$ 3,085 per acre @ 1.00%

**Total Cost per Acre Including Overhead**

**Cost per bu**

**Cash Cost per bu**

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

# 2018 Nebraska Crop Budgets

Developed and  
Edited by

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

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

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

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

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

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

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

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

159.06  
3.73

**Total Operating and Use Related Ownership Costs**

162.79

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

20.00

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

Real Estate Taxes \$ - per acre @ 1.00%

0.00  
0.00

**Total Cost per Acre Including Overhead**

182.79

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

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

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

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

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate w/Surfactant
2,4-D Ester LV4	Herbicide	1	100%	1.5 pint	2.13	3.19		
21-0-0-24S	Additive	1	100%	1.7 pound	0.28	0.48		
28-0-0	Fertilizer	4	100%	45 lbs N	0.37	16.50		
Millet	Seed	5	100%	12 pound	0.45	5.40		
2,4-D Amine	Herbicide	6	100%	0.75 pint	1.63	1.22		
Dicamba	Herbicide	6	100%	0.5 ounce	0.34	0.17		
Haul Grain (Millet)	Custom	9	100%	22 cwt	0.24	5.28		
<b>Total Materials &amp; Services</b>							35.99	

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

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

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

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

**Cost per cwt**

	7.24
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**Cash Cost per cwt**

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

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
2 Spray Fertilizer	1		1.00	0.30	0.35	0.19	1.08	2.03	4.95	
3 No-Till Drill	1		1.83	1.43	0.72	1.57	2.25	3.21	11.01	
4 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
5 Windrow Grain	1		2.00	1.41	2.31	0.00	3.33	0.85	9.90	
6 Combine Small Grain	1		3.14	4.21	7.31	0.94	5.84	2.65	24.09	
7 Truck	Custom									
<b>Total for Field Operations</b>			9.97	7.95	11.39	3.28	14.66	8.82	56.07	

  

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
21-0-0-24S	Additive	1	100%	1.7 pound	0.28	0.48	
28-0-0	Fertilizer	2	100%	45 lbs N	0.37	16.50	
Glyphosate w/Surfactant	Herbicide	2	100%	20 ounce	0.12	2.34	
Vida	Herbicide	2	100%	2 ounce	4.06	8.13	
Millet	Seed	3	100%	12 pound	0.45	5.40	
2,4-D Amine	Herbicide	4	100%	0.75 pint	1.63	1.22	
Dicamba	Herbicide	4	100%	0.5 ounce	0.34	0.17	
Haul Grain (Millet)	Custom	7	100%	22 cwt	0.24	5.28	
<b>Total Materials &amp; Services</b>						43.74	

  

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

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

Field Operations	Times or Qty	Labor @ Unit	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
				Power	Imp.	Power	Imp.		
1 Spray Fertilizer	1	1.00	0.30	0.35	0.19	1.08	2.03	4.95	
2 No-Till Drill	1	1.83	1.43	0.72	1.57	2.25	3.21	11.01	
3 Spray Herbicide	1	1.00	0.30	0.35	0.29	1.08	0.04	3.06	
4 Combine Small Grain	1	3.14	4.21	7.31	0.94	5.84	2.65	24.09	
5 Truck	Custom								
<b>Total for Field Operations</b>		6.97	6.24	8.73	2.99	10.25	7.93	43.11	

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	2.30	13.80
Aim 2EC	Herbicide	3	100%	0.5 ounce	5.94	2.97
2,4-D Ester LV4	Herbicide	3	100%	0.5 pint	2.13	1.06
NIS	Additive	3	100%	6 ounce	0.09	0.52
Haul Grain Bushels	Custom	5	100%	85 bushel	0.11	9.35
<b>Total Materials &amp; Services</b>					86.37	

**Total listed costs for Field Operations and Materials and Services** 129.48

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

**Total Operating and Use Related Ownership Costs** 132.54

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

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

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

**Total Cost per Acre Including Overhead** 278.34

**Cost per bu** 3.27

**Cash Cost per bu** 1.35



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

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

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

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

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

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

# 2018 Nebraska Crop Budgets

Developed and  
Edited by

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

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

Materials & Services			Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Valor XLT	Herbicide		3	100%	3 ounce	5.75	17.25	
RR2 Soybeans	Seed		4	100%	1 bag	50.00	50.00	
Glyphosate w/Surfactant	Herbicide		5	100%	32 ounce	0.12	3.75	
Select Max	Herbicide		5	100%	6 ounce	0.86	5.16	
21-0-0-24S	Additive		5	100%	1.7 pound	0.28	0.48	
* Aerial Spray	Custom		6	20%	1 acre	10.00	2.00	
* Warrior II/Zeon	Insecticide		6	20%	1.6 ounce	2.89	0.93	
Haul Grain Bushels	Custom		8	100%	40 bushel	0.11	4.40	
Scouting Dryland Soybeans	Scouting			100%	1 acre	7.00	7.00	
	Crop Insurance					12.68	12.68	
<b>Total Materials &amp; Services</b>							103.65	

\* Insecticide for Aphids and Caterpillars

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

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

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

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

<b>Cost per bu</b>	7.93
<b>Cash Cost per bu</b>	3.64

~See benefits of soybeans in a corn/soybean rotation

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

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
2 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
3 Plant No-Till	1		2.40	0.95	0.86	4.41	2.70	6.13	17.45	
4 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
5 Aerial Spray	Custom									
6 Combine Dryland SB	1		3.38	4.55	7.87	1.11	6.29	2.65	25.85	
7 Truck	Custom									
<b>Total for Field Operations</b>			8.78	6.40	9.78	6.74	12.23	9.67	53.60	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate w/Surfactant
2,4-D Ester LV4	Herbicide	1	100%	1 pint	2.13	2.13		
21-0-0-24S	Additive	1	100%	1.7 pound	0.28	0.48		
Valor XLT	Herbicide	2	100%	3 ounce	5.75	17.25		
2,4-D Ester LV4	Herbicide	2	100%	1 pint	2.13	2.13		
Glyphosate w/Surfactant	Herbicide	2	100%	32 ounce	0.12	3.75		
21-0-0-24S	Additive	2	100%	1.7 pound	0.28	0.48		
RR2 Soybeans	Seed	3	100%	1 bag	50.00	50.00		
Glyphosate w/Surfactant	Herbicide	4	100%	32 ounce	0.12	3.75		
Select Max	Herbicide	4	100%	6 ounce	0.86	5.16		
21-0-0-24S	Additive	4	100%	1.7 pound	0.28	0.48		
* Aerial Spray	Custom	5	20%	1 acre	10.00	2.00		
* Warrior II/Zeon	Insecticide	5	20%	1.6 ounce	2.89	0.93		
Haul Grain Bushels	Custom	6	100%	45 bushel	0.11	0.00		
Scouting Dryland Soybeans	Scouting		100%	1 acre	7.00	7.00		
	Crop Insurance				12.68	12.68		
<b>Total Materials &amp; Services</b>							111.97	

\* Insecticide for Aphids and Caterpillars

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

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

**Total Operating and Use Related Ownership Costs** 3.95

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

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

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

**Total Cost per Acre Including Overhead** 315.32

**Cost per bu** 7.01

**Cash Cost per bu** 3.28

~See benefits of soybeans in a corn/soybean rotation

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

Field Operations	Times or Qty	Labor @ Unit	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
				Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	1	1.00	0.30	0.35	0.64	1.08	0.81	4.18	
2 Plant No-Till	1	2.40	0.95	0.86	4.41	2.70	6.13	17.45	
3 Spray Herbicide	1	1.00	0.30	0.35	0.29	1.08	0.04	3.06	
4 Aerial Spray	Custom								
5 Combine Dryland SB	1	3.38	4.55	7.87	1.11	6.29	2.65	25.85	
6 Truck	Custom								
<b>Total for Field Operations</b>		7.78	6.10	9.43	6.45	11.15	9.63	50.54	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Valor XLT	Herbicide	1	100%	3 ounce	5.75	17.25
2,4-D Ester LV4	Herbicide	1	100%	1 pint	2.13	2.13
Glyphosate w/Surfactant	Herbicide	1	100%	32 ounce	0.12	3.75
21-0-0-24S	Additive	1	100%	1.7 pound	0.28	0.48
RR2 Soybeans	Seed	2	100%	1 bag	50.00	50.00
Glyphosate w/Surfactant	Herbicide	3	100%	32 ounce	0.12	3.75
21-0-0-24S	Additive	3	100%	1.7 pound	0.28	0.48
* Aerial Spray	Custom	4	20%	1 acre	10.00	2.00
* Warrior II/Zeon	Insecticide	4	20%	1.6 ounce	2.89	0.93
Haul Grain Bushels	Custom	6	100%	40 bushel	0.11	4.40
Scouting Dryland Soybeans	Scouting		100%	1 acre	7.00	7.00
	Crop Insurance				12.68	12.68
<b>Total Materials &amp; Services</b>					104.85	

\* Insecticide for Aphids and Caterpillars

<b>Total listed costs for Field Operations and Materials and Services</b>					155.39	
Interest on Operations Capital	\$ 134.61	cash expense @	5.50%	for 6.0 mo.	3.70	
<b>Total Operating and Use Related Ownership Costs</b>					159.09	
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)					20.00	
Real Estate Opportunity	Dryland (State)	\$ 3,145	per acre @	3.00%	94.35	
Real Estate Taxes		\$ 3,145	per acre @	1.00%	31.45	
<b>Total Cost per Acre Including Overhead</b>					304.89	

<b>Cost per bu</b>	7.62
<b>Cash Cost per bu</b>	3.46

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

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

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

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Valor XLT
RR2 Soybeans	Seed	4	100%	1 bag	50.00	50.00		
Glyphosate w/Surfactant	Herbicide	6	100%	32 ounce	0.12	3.75		
Select Max	Herbicide	6	100%	6 ounce	0.86	5.16		
21-0-0-24S	Additive	6	100%	1.7 pound	0.28	0.48		
* Aerial Spray	Custom	7	20%	1 acre	10.00	2.00		
* Warrior II/Zeon	Insecticide	7	20%	1.6 ounce	2.89	0.93		
Aerial Spray	Custom	8	20%	1 acre	10.00	2.00		
Priaxor	Fungicide	8	20%	4 ounce	5.47	4.38		
Haul Grain Bushels	Custom	10	100%	62 bushel	0.11	6.82		
Scouting Irrigated Soybeans	Scouting		100%	1 acre	9.00	9.00		
	Crop Insurance				4.60	4.60		
<b>Total Materials &amp; Services</b>							106.37	

\* Insecticide for Aphids and Caterpillars

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

Interest on Operations Capital \$ 216.85 cash expense @ 5.50% for 6.0 mo. 255.37

**Total Operating and Use Related Ownership Costs** 261.33

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

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

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

**Total Cost per Acre Including Overhead** 533.13

**Cost per bu** 8.60

**Cash Cost per bu** 3.59

~See benefits of soybeans in a corn/soybean rotation



**2018 Budget 59-Soybeans, Roundup Ready® , Conventional Tillage, after Corn<sup>~</sup> (65 bu Actual Yield)  
Gravity Irrigated, fed by a well, 1,000 GPM 10 PSI, 12 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
2 Ridge Plant and Band Herbicide	1		2.40	0.96	0.86	6.89	2.70	4.27	18.08	
3 Ridge Cultivation	1		2.00	1.50	0.86	0.89	2.70	1.01	8.96	
4 Ridge Cultivate/Ditch	1		1.83	1.25	0.72	0.37	2.25	1.52	7.94	
5 Pipe D 125' Lift	12	ai	22.22	45.53	3.29	2.28	5.43	3.71	82.46	
6 Spray Herbicide	0.5		0.50	0.15	0.17	0.14	0.54	0.02	1.52	
7 Aerial Spray	Custom									
8 Aerial Spray	Custom									
9 Combine Irr SB	1		3.67	4.93	8.53	1.33	6.81	2.65	27.92	
10 Truck	Custom									
<b>Total for Field Operations</b>			33.62	54.62	14.78	12.54	21.51	13.99	151.06	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate w/Surfactant
2,4-D Ester LV4	Herbicide	1	100%	1 pint	2.13	2.13		
21-0-0-24S	Additive	2	100%	1.7 pound	0.28	0.48		
Valor XLT	Herbicide	2	33%	3 ounce	5.75	5.69		
RR2 Soybeans	Seed	2	100%	1 bag	50.00	50.00		
Glyphosate w/Surfactant	Herbicide	6	50%	32 ounce	0.12	1.88		
21-0-0-24S	Additive	6	50%	1.7 pound	0.28	0.24		
Select Max	Herbicide	6	40%	6 ounce	0.86	2.06		
Crop Oil Concentrate	Additive	6	40%	2 pint	1.04	0.83		
* Aerial Spray	Custom	7	20%	1 acre	10.00	2.00		
* Warrior II/Zeon	Insecticide	7	20%	1.6 ounce	2.89	0.93		
Aerial Spray	Custom	8	20%	1 acre	10.00	2.00		
Stratego YLD	Fungicide	8	20%	4 ounce	4.45	3.56		
Haul Grain Bushels	Custom	10	100%	65 bushel	0.11	7.15		
Scouting Irrigated Soybeans	Scouting		100%	1 acre	9.00	9.00		
	Crop Insurance				4.60	4.60		
<b>Total Materials &amp; Services</b>							96.30	

\* Insecticide for Aphids and Caterpillars

<b>Total listed costs for Field Operations and Materials and Services</b>						247.36	
Interest on Operations Capital \$ 211.86	cash expense @	5.50%	for 6.0 mo.			5.83	
<b>Total Operating and Use Related Ownership Costs</b>						253.19	
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Gravity (State)	\$ 6,070	per acre @	3.00%		182.10	
Real Estate Taxes		\$ 6,070	per acre @	1.00%		60.70	
<b>Total Cost per Acre Including Overhead</b>						515.99	
<b>Cost per bu</b>						7.94	
<b>Cash Cost per bu</b>						3.35	

<sup>~</sup>See benefits of soybeans in a corn/soybean rotation

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

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
2 Plant Narrow Row	1		2.40	0.73	0.86	2.54	2.70	3.53	12.76	
3 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
4 Aerial Spray	Custom									
5 Aerial Spray	Custom									
6 Pivot D 125' Lift	6	ai	4.17	31.37	2.06	9.68	2.75	5.32	55.35	
7 Combine Irr SB	1		3.67	4.93	8.53	1.33	6.81	2.65	27.92	
8 Truck	Custom									
<b>Total for Field Operations</b>			12.24	37.63	12.15	14.48	14.42	12.35	103.27	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate w/Surfactant
2,4-D Ester LV4	Herbicide	1	100%	1 pint	2.13	2.13		
21-0-0-24S	Additive	1	100%	1.7 pound	0.28	0.48		
Valor XLT	Herbicide	1	100%	3 ounce	5.75	17.25		
RR2 Soybeans Xtend Treated	Seed	2	100%	1 bag	77.00	77.00		
Engenia	Herbicide	3	100%	12.8 ounce	0.94	12.00		
Glyphosate w/Surfactant	Herbicide	3	100%	32 ounce	0.12	3.75		
Select Max	Herbicide	3	100%	6 ounce	0.86	5.16		
Approved adjuvant	Additive	3	100%	1 acre	2.50	2.50		
* Aerial Spray	Custom	4	20%	1 acre	10.00	2.00		
* Warrior II/Zeon	Insecticide	4	20%	1.6 ounce	2.89	0.93		
Aerial Spray	Custom	5	20%	1 acre	10.00	2.00		
Quilt Xcel	Fungicide	5	20%	10.5 ounce	1.64	3.45		
Haul Grain Bushels	Custom	8	100%	70 bushel	0.11	7.70		
Scouting Irrigated Soybeans	Scouting		100%	1 acre	9.00	9.00		
	Crop Insurance				4.68	4.68		
<b>Total Materials &amp; Services</b>							153.78	

\* Insecticide for Aphids and Caterpillars

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

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

**Total Operating and Use Related Ownership Costs**

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

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

**Total Cost per Acre Including Overhead**

**Cost per bu**

**Cash Cost per bu**

~See benefits of soybeans in a corn/soybean rotation

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

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
2 Plant Narrow Row	1		2.40	0.73	0.86	2.54	2.70	3.53	12.76	
3 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
4 Aerial Spray	Custom									
5 Aerial Spray	Custom									
6 Pivot D 125' Lift	6	ai	4.17	31.37	2.06	9.68	2.75	5.32	55.35	
7 Combine Irr SB	1		3.67	4.93	8.53	1.33	6.81	2.65	27.92	
8 Truck	Custom									
<b>Total for Field Operations</b>			12.24	37.63	12.15	14.48	14.42	12.35	103.27	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
2,4-D Ester LV4	Herbicide	1	100%	1 pint	2.13	2.13
21-0-0-24S	Additive	1	100%	1.7 pound	0.28	0.48
Valor XLT	Herbicide	1	100%	3 ounce	5.75	17.25
RR2 Soybeans Treated	Seed	2	100%	1 bag	62.00	62.00
Glyphosate w/Surfactant	Herbicide	3	50%	32 ounce	0.12	1.88
21-0-0-24S	Additive	3	50%	1.7 pound	0.28	0.24
* Aerial Spray	Custom	4	20%	1 acre	10.00	2.00
* Warrior II/Zeon	Insecticide	4	20%	1.6 ounce	2.89	0.93
Aerial Spray	Custom	5	20%	1 acre	10.00	2.00
Priaxor	Fungicide	5	20%	4 ounce	5.47	4.38
Haul Grain Bushels	Custom	8	100%	59 bushel	0.11	6.49
Scouting Irrigated Soybeans	Scouting		100%	1 acre	9.00	9.00
Crop Insurance					4.53	4.53
<b>Total Materials &amp; Services</b>						117.06

\* Insecticide for Aphids and Caterpillars

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

Interest on Operations Capital \$ 193.56 cash expense @ 5.50% for 6.0 mo. 220.33

**Total Operating and Use Related Ownership Costs** 5.32

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

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

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

**Total Cost per Acre Including Overhead** 497.45

**Cost per bu** 8.43

**Cash Cost per bu** 3.37

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

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

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spray Spring Burndown Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
2 No-Till Drill	1		1.83	1.43	0.72	1.57	2.25	3.21	11.01	
3 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
4 Aerial Spray	Custom									
5 Aerial Spray	Custom									
6 Pivot D 125' Lift	6	ai	4.17	31.37	2.06	9.68	2.75	5.32	55.35	
7 Combine Irr SB	1		3.67	4.93	8.53	1.33	6.81	2.65	27.92	
8 Truck	Custom									
<b>Total for Field Operations</b>			11.67	38.33	12.01	13.51	13.97	12.03	101.52	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate w/Surfactant
2,4-D Ester LV4	Herbicide	1	100%	1 pint	2.13	2.13		
21-0-0-24S	Additive	1	100%	1.7 pound	0.28	0.48		
Valor XLT	Herbicide	1	100%	3 ounce	5.75	17.25		
RR2 Soybeans Xtend Treated	Seed	2	100%	1 bag	77.00	77.00		
FeXapan	Herbicide	3	100%	22 ounce	0.55	12.03		
Glyphosate w/Surfactant	Herbicide	3	100%	32 ounce	0.12	3.75		
Select Max	Herbicide	3	100%	6 ounce	0.86	5.16		
Approved adjuvant	Additive	3	100%	1 acre	2.50	2.50		
* Aerial Spray	Custom	4	20%	1 acre	10.00	2.00		
* Warrior II/Zeon	Insecticide	4	20%	1.6 ounce	2.89	0.93		
Aerial Spray	Custom	5	20%	1 acre	10.00	2.00		
Stratego YLD	Fungicide	5	20%	4 ounce	4.45	3.56		
Haul Grain Bushels	Custom	8	100%	73 bushel	0.11	8.03		
Scouting Irrigated Soybeans	Scouting		100%	1 acre	9.00	9.00		
	Crop Insurance				4.68	4.68		
<b>Total Materials &amp; Services</b>							154.25	

\* Insecticide for Aphids and Caterpillars

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

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

**Total Operating and Use Related Ownership Costs** 6.32

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

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

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

**Total Cost per Acre Including Overhead** 533.89

**Cost per bu** 7.31

**Cash Cost per bu** 3.23

~See benefits of soybeans in a corn/soybean rotation

# 2018 Nebraska Crop Budgets

Developed and  
Edited by

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

## Additional Resource Persons

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

Robert J. Wright, Extension Entomologist

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

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

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Paul J. Jasa, Extension Biological Systems Engineer

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

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

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	2.14	0.30	1.27	4.04	1.14	10.91	
2 Spray Fertilizer	1		1.00	0.30	0.35	0.19	1.08	2.03	4.95	
3 Spray Herbicide	Custom									
4 Till Plant Beets	1		3.67	3.87	0.55	1.82	7.34	0.52	17.77	
5 Rotary Hoe	1		1.50	0.70	0.59	0.37	1.84	1.26	6.26	
6 Row Crop Cultivation	1		2.00	0.90	0.78	0.44	2.45	1.52	8.09	
7 Ridge Cultivate/Ditch	1		1.83	1.25	0.72	0.37	2.25	1.52	7.94	
8 Spray Herbicide	Custom									
9 Ditch Irrigation	20	ai	22.22	0.00	0.00	0.00	0.00	0.00	22.22	
10 Spray Herbicide	Custom									
11 Aerial Spray	Custom									
12 Top Beets	1		3.45	1.70	1.49	0.00	4.66	16.57	27.87	
13 Lift Beets	1		3.67	2.91	0.55	13.70	7.34	5.07	33.24	
14 Truck	Custom									
15 Subsoil	1		2.22	2.58	0.36	0.00	4.89	10.82	20.87	
<b>Total for Field Operations</b>			43.58	16.35	5.69	18.16	35.89	40.45	160.12	

Materials & Services	Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate	
			Rate	Unit				
10-34-0	Fertilizer	2	100%	13.4	gallon	2.30	30.82	
28-0-0	Fertilizer	2	100%	115	lbs N	0.37	42.17	
Spray	Custom	3,8, 10	300%	1	acre	7.00	21.00	
Glyphosate w/Surfactant	Herbicide	3	100%	36	ounce	0.12	4.22	
21-0-0-24S	Additive	3	100%	1.7	pound	0.28	0.48	
Sugar Beets RR Poncho	Seed	4	100%	1	acre	180.00	180.00	
Spray	Custom	8	100%	1	acre	7.00	7.00	
Glyphosate w/Surfactant	Herbicide	8	100%	36	ounce	0.12	4.22	
21-0-0-24S	Additive	8	100%	1.7	pound	0.28	0.48	
Irrigation District O&M Charge	Other	9	100%	1	acre	30.00	30.00	
Spray	Custom	10	100%	1	acre	7.00	7.00	
Glyphosate w/Surfactant	Herbicide	10	100%	36	ounce	0.12	4.22	
21-0-0-24S	Additive	10	100%	1.7	pound	0.28	0.48	
Aerial Spray	Custom	11	100%	1	acre	10.00	10.00	
Quadris	Fungicide	11	100%	7	ounce	2.34	16.41	
Haul Beets	Custom	14	100%	26	ton	5.00	130.00	
Scouting Sugar Beets	Scouting		100%	1	acre	16.00	16.00	
	Crop Insurance					19.09	19.09	
<b>Total Materials &amp; Services</b>						523.59		

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

Interest on Operations Capital	\$ 607.37	cash expense @	5.50%	for 6.0 mo.	16.70
<b>Total Operating and Use Related Ownership Costs</b>					700.41
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)					20.00
Real Estate Opportunity	Gravity (Panhandle)	\$ 2,580	per acre @	3.00%	77.40
Real Estate Taxes		\$ 2,580	per acre @	1.00%	25.80
<b>Total Cost per Acre Including Overhead</b>					823.61
<b>Cost per ton</b>					31.68
<b>Cash Cost per ton</b>					24.00

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

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	2.14	0.30	1.27	4.04	1.14	10.91	
2 Spray Fertilizer	1		1.00	0.30	0.35	0.19	1.08	2.03	4.95	
3 Spray Herbicide	Custom									
4 Plow	1		2.93	2.25	0.44	0.86	5.87	0.52	12.87	
5 Roller Harrow	1		2.00	1.41	0.86	0.52	2.70	1.52	9.01	
6 Plant	1		2.40	0.77	0.86	2.54	2.70	3.53	12.80	
7 Field Cultivation	2		2.93	3.08	1.15	2.66	3.59	3.02	16.43	
8 Ridge Cultivate/Ditch	1		1.83	1.25	0.72	0.37	2.25	1.52	7.94	
9 Spray Herbicide	Custom									
10 Ditch Irrigation	20	ai	22.22	0.00	0.00	0.00	0.00	0.00	22.22	
11 Spray Herbicide	Custom									
12 Aerial Spray	Custom									
13 Top Beets	1		3.45	1.70	1.49	0.00	4.66	16.57	27.87	
14 Lift Beets	1		3.67	2.91	0.55	13.70	7.34	5.07	33.24	
15 Truck	Custom									
16 Subsoil	1		2.22	2.58	0.36	0.00	4.89	10.82	20.87	
<b>Total for Field Operations</b>			46.67	18.39	7.08	22.11	39.12	45.74	179.11	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
10-34-0	Fertilizer	2	100%	13.4 gallon	2.30	30.82
28-0-0	Fertilizer	2	100%	115 lbs N	0.37	42.17
Spray	Custom	3, 9, & 11	300%	1 acre	7.00	21.00
Glyphosate w/Surfactant	Herbicide	3	100%	36 ounce	0.12	4.22
21-0-0-24S	Additive	3	100%	1.7 pound	0.28	0.48
Sugar Beets RR Poncho	Seed	6	100%	1 acre	180.00	180.00
Glyphosate w/Surfactant	Herbicide	9	100%	36 ounce	0.12	4.22
21-0-0-24S	Additive	9	100%	1.7 pound	0.28	0.48
Irrigation District O&M Charge	Other	10	100%	1 acre	30.00	30.00
Spray	Custom	11	100%	1 acre	7.00	7.00
Glyphosate w/Surfactant	Herbicide	11	100%	36 ounce	0.12	4.22
21-0-0-24S	Additive	11	100%	1.7 pound	0.28	0.48
Aerial Spray	Custom	12	100%	1 acre	10.00	10.00
Quadris	Fungicide	12	100%	7 ounce	2.34	16.41
Haul Beets	Custom	15	100%	26 ton	5.00	130.00
Scouting Sugar Beets	Scouting		100%	1 acre	16.00	16.00
Crop Insurance					19.09	19.09
<b>Total Materials &amp; Services</b>					516.59	

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

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

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.02	2.14	0.30	1.27	4.04	1.14	10.91	
2 Spray Fertilizer	1		1.00	0.30	0.35	0.19	1.08	2.03	4.95	
3 Spray Herbicide	Custom									
4 Till Plant Beets	1		3.67	3.87	0.55	1.82	7.34	0.52	17.77	
5 Row Crop Cultivation	1		2.00	0.90	0.78	0.44	2.45	1.52	8.09	
6 Spray Herbicide	Custom									
7 Pivot D 125' Lift	16	ai	11.11	83.65	5.49	25.82	7.34	14.17	147.58	
8 Spray Herbicide	Custom									
9 Aerial Spray	Custom									
10 Top Beets	1		3.45	1.70	1.49	0.00	4.66	16.57	27.87	
11 Lift Beets	1		3.67	2.91	0.55	13.70	7.34	5.07	33.24	
12 Truck	Custom									
13 Subsoil	1		2.22	2.58	0.36	0.00	4.89	10.82	20.87	
<b>Total for Field Operations</b>			29.14	98.05	9.87	43.24	39.14	51.84	271.28	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
28-0-0	Fertilizer	2	100%	115 lbs N	0.37	42.17	
Spray	Custom	3, 6, and 8	300%	1 acre	7.00	21.00	
Glyphosate w/Surfactant	Herbicide	3	100%	36 ounce	0.12	4.22	
21-0-0-24S	Additive	3	100%	1.7 pound	0.28	0.48	
Sugar Beets RR Poncho	Seed	4	100%	1 acre	180.00	180.00	
Glyphosate w/Surfactant	Herbicide	6	100%	36 ounce	0.12	4.22	
21-0-0-24S	Additive	6	100%	1.7 pound	0.28	0.48	
Glyphosate w/Surfactant	Herbicide	8	100%	36 ounce	0.12	4.22	
21-0-0-24S	Additive	8	100%	1.7 pound	0.28	0.48	
Aerial Spray	Custom	9	100%	1 acre	10.00	10.00	
Quadris	Fungicide	9	100%	7 ounce	2.34	16.41	
Haul Beets	Custom	12	100%	26 ton	5.00	130.00	
Scouting Sugar Beets	Scouting		100%	1 acre	26.00	26.00	
	Crop Insurance				19.09	19.09	
<b>Total Materials &amp; Services</b>						489.59	

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



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

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

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							10-34-0
28-0-0	Fertilizer	2	100%	115 lbs N	0.37	42.17	
Spray	Custom	6 & 9	200%	1 acre	7.00	14.00	
Glyphosate w/Surfactant	Herbicide	6	100%	36 ounce	0.12	4.22	
21-0-0-24S	Additive	6	100%	1.7 pound	0.28	0.48	
Sugar Beets RR Poncho	Seed	5	100%	1 acre	180.00	180.00	
Glyphosate w/Surfactant	Herbicide	9	100%	36 ounce	0.12	4.22	
21-0-0-24S	Additive	9	100%	1.7 pound	0.28	0.48	
Aerial Spray	Custom	10	100%	1 acre	10.00	10.00	
Quadris	Fungicide	10	100%	7 ounce	2.34	16.41	
Haul Beets	Custom	13	100%	26 ton	5.00	130.00	
Scouting Sugar Beets	Scouting		100%	1 acre	16.00	16.00	
	Crop Insurance				19.09	19.09	
<b>Total Materials &amp; Services</b>						467.89	

<b>Total listed costs for Field Operations and Materials and Services</b>		756.22
Interest on Operations Capital \$ 656.92 cash expense @ 5.50% for 6.0 mo.		18.07
<b>Total Operating and Use Related Ownership Costs</b>		774.29

<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)		20.00
Real Estate Opportunity <span style="border: 1px solid black; padding: 2px;">Pivot (Panhandle)</span> \$ 2,815 per acre @ 3.00%		84.45
Real Estate Taxes \$ 2,815 per acre @ 1.00%		28.15
<b>Total Cost per Acre Including Overhead</b>		906.89

<b>Cost per ton</b>		34.88
<b>Cash Cost per ton</b>		25.96

# 2018 Nebraska Crop Budgets

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

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

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

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

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

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							Glyphosate w/Surfactant
21-0-0-24S	Additive	1	100%	1.7 pound	0.28	0.48	
Prowl H <sub>2</sub> O	Herbicide	1	100%	2 pint	6.50	13.00	
28-0-0	Fertilizer	1	100%	50 lbs N	0.37	18.33	
Spartan 4F	Herbicide	1	100%	5 ounce	2.11	10.55	
Glyphosate w/Surfactant	Herbicide	2	50%	32 ounce	0.12	1.88	
21-0-0-24S	Additive	2	50%	1.7 pound	0.28	0.24	
Prowl H <sub>2</sub> O	Herbicide	2	50%	1 pint	6.50	3.25	
Sunflower Clearfield	Seed	3	100%	20 thousand	1.44	28.80	
Beyond	Herbicide	4	50%	4 ounce	4.77	9.53	
NIS	Additive	4	50%	5 ounce	0.09	0.21	
UAN	Additive	4	50%	3 pint	0.16	0.24	
* Aerial Spray	Custom	5	50%	1 acre	10.00	5.00	
* Warrior II/Zeon	Insecticide	5	50%	1.92 ounce	2.89	2.78	
Haul Grain (Sunflower)	Custom	7	100%	13 cwt	0.30	3.90	
Crop Insurance					12.82	12.82	
<b>Total Materials &amp; Services</b>						114.76	

\*Insecticide for seed weevil and sunflower moth

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

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

**Total Operating and Use Related Ownership Costs** 170.20

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

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

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

**Total Cost per Acre Including Overhead** 218.80

**Cost per cwt** 16.83

**Cash Cost per cwt** 11.42

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

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

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	0.28	0.56		
Glyphosate w/Surfactant	Herbicide	2	100%	32 ounce	0.12	3.75		
21-0-0-24S	Additive	2	100%	1.7 pound	0.28	0.48		
Glyphosate w/Surfactant	Herbicide	3	100%	32 ounce	0.12	3.75		
21-0-0-24S	Additive	3	100%	1.7 pound	0.28	0.48		
Prowl H2O	Herbicide	3	100%	2 pint	6.50	13.00		
28-0-0	Fertilizer	3	100%	60 lbs N	0.37	22.00		
Spartan 4F	Herbicide	3	100%	5 ounce	2.11	10.55		
Glyphosate w/Surfactant	Herbicide	4	50%	32 ounce	0.12	1.88		
21-0-0-24S	Additive	4	50%	1.7 pound	0.28	0.24		
Prowl H <sub>2</sub> O	Herbicide	4	50%	1 pint	6.50	3.25		
Sunflower Clearfield	Seed	5	100%	5 thousand	1.44	7.20		
Beyond	Herbicide	6	50%	4 ounce	4.77	9.53		
NIS	Additive	6	50%	5 ounce	0.09	0.21		
UAN	Additive	6	50%	3 pint	0.16	0.24		
* Aerial Spray	Custom	7	50%	1 acre	10.00	5.00		
* Warrior II/Zeon	Insecticide	7	50%	1.92 ounce	2.89	2.78		
Haul Grain (Sunflower)	Custom	9	100%	16 cwt	0.30	4.80		
	Crop Insurance				14.00	14.00		
<b>Total Materials &amp; Services</b>							110.87	

\*Insecticide for seed weevil and sunflower moth

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

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

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

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate w/Surfactant
21-0-0-24S	Additive	1	100%	1.7 pound	0.28	0.48		
Prowl H2O	Herbicide	2	100%	2.3 pint	6.50	14.95		
Spartan 4F	Herbicide	2	100%	4 ounce	2.11	8.44		
28-0-0	Fertilizer	2	100%	100 lbs N	0.37	36.67		
Sunflower Clearfield	Seed	3	100%	3.5 thousand	1.44	5.04		
10-34-0	Fertilizer	3	100%	4 gallon	2.30	9.20		
Beyond	Herbicide	4	50%	4 ounce	4.77	9.53		
NIS	Additive	4	50%	5 ounce	0.09	0.21		
UAN	Additive	4	50%	3 pint	0.16	0.24		
* Aerial Spray	Custom	5	50%	1 acre	10.00	5.00		
* Warrior II/Zeon	Insecticide	5	50%	3.84 ounce	2.89	5.55		
Electricity Fixed	Other	6	100%	1 acre	30.00	30.00		
Haul Grain (Sunflower)	Custom	8	100%	30 cwt	0.30	9.00		
	Crop Insurance				18.60	18.60		
<b>Total Materials &amp; Services</b>							156.66	

\*Insecticide for seed weevil and sunflower moth

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

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

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

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

**Total Cost per Acre Including Overhead** 421.27

**Cost per cwt** 14.04

**Cash Cost per cwt** 7.95

# 2018 Nebraska Crop Budgets

Developed and  
Edited by

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

## Additional Resource Persons

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

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

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

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

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

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
10-34-0 Fertilizer	1	100%	8 gallon	2.30	18.40	
Wheat (Certified and Treated) Seed	1	100%	90 pound	0.23	20.70	
28-0-0 Fertilizer	2	100%	75 lbs N	0.37	27.50	
Ally Extra SGW/TOTSOL Herbicide	2	100%	0.3 ounce	9.00	2.70	
2,4-D Ester LV4 Herbicide	2	100%	0.5 pint	2.13	1.06	
NIS Additive	2	100%	6 ounce	0.09	0.52	
* Aerial Spray Custom	3	25%	1 acre	10.00	2.50	
* Quilt Xcel Fungicide	3	25%	10.5 ounce	1.64	4.31	
** Aerial Spray Custom	4	15%	1 acre	10.00	1.50	
** Lorsban Advanced Insecticide	4	10%	1 pint	6.88	0.69	
** Warrior II/Zeon Insecticide	4	5%	1.92 ounce	2.89	0.28	
Haul Grain Bushels Custom	5	100%	50 bushel	0.11	5.50	
Scouting Dryland Wheat Scouting		100%	1 acre	7.00	7.00	
Crop Insurance				10.30	10.30	
<b>Total Materials &amp; Services</b>					102.96	

\*Fungicide for rust

\*\*Insecticide for aphids and army cutworm

<b>Total listed costs for Field Operations and Materials and Services</b>					158.17	
Interest on Operations Capital \$ 125.76	cash expense @	5.50%	for 6.0 mo.		3.46	
<b>Total Operating and Use Related Ownership Costs</b>					161.63	
<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)					20.00	
Real Estate Opportunity	Dryland (Southwest)	\$ 1,710	per acre @	3.00%	51.30	
Real Estate Taxes		\$ 1,710	per acre @	1.00%	17.10	
<b>Total Cost per Acre Including Overhead</b>					250.03	
<b>Cost per bu</b>					5.00	
<b>Cash Cost per bu</b>					2.58	

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

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

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
21-0-0-24S	Additive	1	100%	1.7 pound	0.28	0.48
Glyphosate w/Surfactant	Herbicide	2	100%	32 ounce	0.12	3.75
21-0-0-24S	Additive	2	100%	1.7 pound	0.28	0.48
AAtrex 4L	Herbicide	2	100%	1 quart	4.50	4.50
Glyphosate w/Surfactant	Herbicide	3	100%	32 ounce	0.12	3.75
21-0-0-24S	Additive	3	100%	1.7 pound	0.28	0.48
Glyphosate w/Surfactant	Herbicide	4	100%	32 ounce	0.12	3.75
21-0-0-24S	Additive	4	100%	1.7 pound	0.28	0.48
Glyphosate w/Surfactant	Herbicide	5	100%	32 ounce	0.12	3.75
21-0-0-24S	Additive	5	100%	1.7 pound	0.28	0.48
10-34-0	Fertilizer	6	100%	8 gallon	2.30	18.40
Wheat (Certified and Treated)	Seed	6	100%	60 pound	0.23	13.80
46-0-0	Fertilizer	7	100%	70 lbs N	0.36	25.20
Ally Extra SGW/TOTSOL	Herbicide	8	100%	0.3 ounce	9.00	2.70
2,4-D Ester LV4	Herbicide	8	100%	0.5 pint	2.13	1.06
NIS	Additive	8	100%	6 ounce	0.09	0.52
* Aerial Spray	Custom	9	25%	1 acre	10.00	2.50
* Quilt Xcel	Fungicide	9	25%	10.5 ounce	1.64	4.31
** Aerial Spray	Custom	10	15%	1 acre	10.00	1.50
** Lorsban Advanced	Insecticide	10	10%	1 pint	6.88	0.69
** Warrior II/Zeon	Insecticide	10	5%	1.92 ounce	2.89	0.28
Haul Grain Bushels	Custom	12	100%	60 bushel	0.11	6.60
Scouting Dryland Wheat	Scouting		100%	1 acre	7.00	7.00
Crop Insurance					6.92	6.92
<b>Total Materials &amp; Services</b>						117.13

\*Fungicide for rust

\*\*Insecticide for aphids and army cutworm

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

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

**Total Operating and Use Related Ownership Costs**

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

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

**Total Cost per Acre Including Overhead**

**Cost per bu**

**Cash Cost per bu**

180.35

4.22

184.57

20.00

85.80

28.60

318.97

5.32

2.63



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

Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.45 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Fallow Master	1		1.76	1.94	0.26	0.96	3.52	1.51	9.95	
2 Fallow Master	1		1.76	1.94	0.26	0.96	3.52	1.51	9.95	
3 Fallow Master	1		1.76	1.94	0.26	0.96	3.52	1.51	9.95	
4 Rod Weeder	1		1.52	1.14	0.65	0.23	2.04	0.91	6.49	
5 Rod Weeder	1		1.52	1.14	0.65	0.23	2.04	0.91	6.49	
6 Drill	1		1.76	1.12	0.69	2.94	2.16	2.35	11.02	
7 Spray Fertilizer	1		1.00	0.30	0.35	0.19	1.08	2.03	4.95	
8 Spray Herbicide	1		1.00	0.30	0.35	0.29	1.08	0.04	3.06	
9 Aerial Spray	Custom									
10 Aerial Spray	Custom									
11 Combine Small Grain	1		3.14	4.21	7.31	0.94	5.84	2.65	24.09	
12 Truck	Custom									
<b>Total for Field Operations</b>			15.22	14.03	10.78	7.70	24.80	13.42	85.95	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Wheat (Certified and Treated)	Seed	6	100%	55 pound	0.23	12.65	
28-0-0	Fertilizer	7	100%	65 lbs N	0.37	23.83	
2,4-D Ester LV4	Herbicide	8	100%	0.5 pint	2.13	1.06	
Ally Extra SGW/TOTSOL	Herbicide	8	100%	0.3 ounce	9.00	2.70	
NIS	Additive	8	100%	6 ounce	0.09	0.52	
* Aerial Spray	Custom	9	25%	1 acre	10.00	2.50	
* Quilt Xcel	Fungicide	9	25%	10.5 ounce	1.64	4.31	
** Aerial Spray	Custom	10	15%	1 acre	10.00	1.50	
** Lorsban Advanced	Insecticide	10	10%	1 pint	6.88	0.69	
** Warrior II/Zeon	Insecticide	10	5%	1.92 ounce	2.89	0.28	
Haul Grain Bushels	Custom	12	100%	55 bushel	0.11	6.05	
Scouting Dryland Wheat	Scouting		100%	1 acre	7.00	7.00	
	Crop Insurance				6.71	6.71	
<b>Total Materials &amp; Services</b>						88.20	

\*Fungicide for rust

\*\*Insecticide for aphids and army cutworm

<b>Total listed costs for Field Operations and Materials and Services</b>		174.15
Interest on Operations Capital \$ 135.93 cash expense @ 5.50% for 6.0 mo.		3.74

<b>Total Operating and Use Related Ownership Costs</b>		177.89
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<b>Overhead</b> (accounting, liability insurance, vehicle cost, office expense)		20.00
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Real Estate Opportunity	Dryland (Panhandle)	\$ 1,430	per acre @ 3.00%	85.80
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Real Estate Taxes		\$ 1,430	per acre @ 1.00%	28.60
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<b>Total Cost per Acre Including Overhead</b>		312.29
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<b>Cost per bu</b>		5.68
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<b>Cash Cost per bu</b>		2.54
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**2018 Budget 73-Wheat, Conventional Tillage, One Crop in Two Years, 55 bu Yield Goal (50 bu Actual Yield)  
Dryland**

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

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
10-34-0	Fertilizer	7	100%	8 gallon	2.30	18.40	
Wheat (Certified and Treated)	Seed	7	100%	50 pound	0.23	11.50	
2,4-D Ester LV4	Herbicide	8	100%	0.5 pint	2.13	1.06	
Ally Extra SGW/TOTSOL	Herbicide	8	100%	0.3 ounce	9.00	2.70	
NIS	Additive	8	100%	6 ounce	0.09	0.52	
* Aerial Spray	Custom	9	25%	1 acre	10.00	2.50	
* Quilt Xcel	Fungicide	9	25%	10.5 ounce	1.64	4.31	
** Aerial Spray	Custom	10	15%	1 acre	10.00	1.50	
** Lorsban Advanced	Insecticide	10	10%	1 pint	6.88	0.69	
** Warrior II/Zeon	Insecticide	10	5%	1.92 ounce	2.89	0.28	
Haul Grain Bushels	Custom	12	100%	50 bushel	0.11	5.50	
Scouting Dryland Wheat	Scouting		100%	1 acre	7.00	7.00	
	Crop Insurance				6.46	6.46	
<b>Total Materials &amp; Services</b>						78.42	

\*Fungicide for rust

\*\*Insecticide for aphids and army cutworm

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

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

**Total Operating and Use Related Ownership Costs**

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

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

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

**Total Cost per Acre Including Overhead**

**Cost per bu**

**Cash Cost per bu**

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

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

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Glyphosate w/Surfactant	Herbicide	1	100%	32 ounce	0.12	3.75
21-0-0-24S	Additive	1	100%	1.7 pound	0.28	0.48
2,4-D Ester LV4	Herbicide	1	100%	1 pint	2.13	2.13
Glyphosate w/Surfactant	Herbicide	2	100%	32 ounce	0.12	3.75
21-0-0-24S	Additive	2	100%	1.7 pound	0.28	0.48
2,4-D Ester LV4	Herbicide	2	100%	1 pint	2.13	2.13
Glyphosate w/Surfactant	Herbicide	3	100%	32 ounce	0.12	3.75
21-0-0-24S	Additive	3	100%	1.7 pound	0.28	0.48
2,4-D Ester LV4	Herbicide	3	100%	1 pint	2.13	2.13
Glyphosate w/Surfactant	Herbicide	4	100%	32 ounce	0.12	3.75
21-0-0-24S	Additive	4	100%	1.7 pound	0.28	0.48
10-34-0	Fertilizer	5	100%	8 gallon	2.30	18.40
Wheat (Certified and Treated)	Seed	5	100%	60 pound	0.23	13.80
46-0-0	Fertilizer	6	100%	80 lbs N	0.36	28.80
Ally Extra SGW/TOTSOL	Herbicide	7	100%	0.3 ounce	9.00	2.70
NIS	Additive	7	100%	6 ounce	0.09	0.52
2,4-D Ester LV4	Herbicide	7	100%	0.5 pint	2.13	1.06
* Aerial Spray	Custom	8	25%	1 acre	10.00	2.50
* Quilt Xcel	Fungicide	8	25%	10.5 ounce	1.64	4.31
** Aerial Spray	Custom	9	15%	1 acre	10.00	1.50
** Lorsban Advanced	Insecticide	9	10%	1 pint	6.88	0.69
** Warrior II/Zeon	Insecticide	9	5%	1.92 ounce	2.89	0.28
Haul Grain Bushels	Custom	11	100%	70 bushel	0.11	7.70
Scouting Dryland Wheat	Scouting		100%	1 acre	7.00	7.00
Crop Insurance					7.12	7.12
<b>Total Materials &amp; Services</b>						119.69

\*Fungicide for rust

\*\*Insecticide for aphids and army cutworm

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

Interest on Operations Capital \$ 154.29 cash expense @ 5.50% for 6.0 mo.

**Total Operating and Use Related Ownership Costs**

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

Real Estate Opportunity Dryland (Southwest) \$ 1,710 per acre @ 3.00%  
 Real Estate Taxes \$ 1,710 per acre @ 1.00%

**Total Cost per Acre Including Overhead**

**Cost per bu**

**Cash Cost per bu**

177.47
4.24
181.71
20.00
76.95
25.65
304.31
4.35
2.26

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

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

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
10-34-0 Fertilizer	1	100%	8 gallon	2.30	18.40	
Wheat (Certified and Treated) Seed	1	100%	120 pound	0.23	27.60	
28-0-0 Fertilizer	2	100%	120 lbs N	0.37	44.00	
2,4-D Ester LV4 Herbicide	3	100%	0.5 pint	2.13	1.06	
Ally Extra SGW/TOTSOL Herbicide	3	100%	0.3 ounce	9.00	2.70	
NIS Additive	3	100%	6 ounce	0.09	0.52	
* Aerial Spray Custom	4	100%	1 acre	10.00	10.00	
* Quilt Xcel Fungicide	4	100%	14 ounce	1.64	22.97	
** Aerial Spray Custom	5	15%	1 acre	10.00	1.50	
** Lorsban Advanced Insecticide	5	10%	1 pint	6.88	0.69	
** Warrior II/Zeon Insecticide	5	5%	1.92 ounce	2.89	0.28	
Haul Grain Bushels Custom	7	100%	90 bushel	0.11	9.90	
Scouting Irrigated Wheat Scouting		100%	1 acre	4.50	4.50	
Crop Insurance				10.78	10.78	
<b>Total Materials &amp; Services</b>					154.90	

\*Fungicide for rust

\*\*Insecticide for aphids and army cutworm

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

Interest on Operations Capital \$ 225.27 cash expense @ 5.50% for 6.0 mo.

**Total Operating and Use Related Ownership Costs**

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

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

**Total Cost per Acre Including Overhead**

**Cost per bu**

**Cash Cost per bu**

248.41	
6.19	
254.60	
20.00	
84.45	
28.15	
387.20	
4.30	
2.57	

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

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

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							Glyphosate w/Surfactant
Valor XLT	Herbicide	1	100%	1.5 ounce	5.75	8.63	
Wheat (Certified and Treated)	Seed	2	100%	120 pound	0.23	27.60	
11-52-0	Fertilizer	2	100%	40 pound	0.24	9.60	
2,4-D Ester LV4	Herbicide	3	100%	0.5 pint	2.13	1.06	
Ally Extra SGW/TOTSOL	Herbicide	3	100%	0.3 ounce	9.00	2.70	
NIS	Additive	3	100%	6 ounce	0.09	0.52	
32-0-0 (Applied by Pivot)	Fertilizer	4	100%	115 lbs N	0.32	36.80	
Electricity Fixed	Other	4	100%	1 acre	30.00	30.00	
* Aerial Spray	Custom	5	100%	1 acre	10.00	10.00	
* Quilt Xcel	Fungicide	5	100%	14 ounce	1.64	22.97	
** Aerial Spray	Custom	6	15%	1 acre	10.00	1.50	
** Lorsban Advanced	Insecticide	6	10%	1 pint	6.88	0.69	
** Warrior II/Zeon	Insecticide	6	5%	1.92 ounce	2.89	0.28	
Scouting Irrigated Wheat	Scouting		100%	1 acre	4.50	4.50	
Haul Grain Bushels	Custom	8	100%	85 bushel	0.11	9.35	
	Crop Insurance				10.56	10.56	
<b>Total Materials &amp; Services</b>						180.51	

\*Fungicide for rust

\*\*Insecticide for aphids and army cutworm

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

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

<b>Cost per bu</b>		4.76
<b>Cash Cost per bu</b>		2.91

# 2018 Nebraska Crop Budgets

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

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# 2018 Crop Budgeting Procedures

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

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

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

## Budget Divisions

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

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

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

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

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

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

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

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

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

The **operations and interest** tabulations are

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

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

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

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

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

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

soybeans in a corn/soybean rotation are realized in the following corn crop.

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

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

A final benefit is the value of nitrogen produced by the soybean crop. If the soybeans produce 45 pounds of nitrogen per acre this amounts to a savings to the corn crop of \$18 per acre when nitrogen costs forty cents a pound.

The above benefits amount to \$63 per acre which does not include the benefits of spreading labor and machinery use requirements out over a longer time frame.

However, additional phosphorus must be applied to replace that used by the soybeans in a corn crop following soybeans. This amounts to about 0.8 pound for every bushel of soybeans produced. The cost to replace 48 pounds of P<sub>2</sub>O<sub>5</sub> needed for a 60 bushel per acre soybean crop would be approximately \$18 per acre.

**Table 1. Power Unit Cost Data Used for 2018 Budgets**

<i>Name</i>	<i>List Price</i>	<i>Age</i>	<i>Total Tach</i>	<i>Est. Hours per Year</i>
Large Tractor	331,066	10	1,500	300
Medium Tractor	224,262	5	2,500	500
Combine	351,122	10	1,500	300
Electric Pump	10,500	5	2,400	800
Diesel Pump for Pivot	15,750	10	2,400	800
Diesel Pump for Pipe	15,750	10	2,400	800
Windrower	150,309	10	2,500	120

**Table 2. Machinery Cost Data Used for 2018 Budgets**

<i>Operation Name</i>	<i>List Price</i>	<i>Age</i>	<i>Annual Use</i>	<i>Unit</i>	<i>Units per Hour</i>	<i>Diesel Use per Hour</i>
Anhydrous Application	N/A	5	500	acre	12	6.36
Bale Large Round	22,417	5	1,000	ton	10	2.88
Bale Large Square	120,658	5	1,000	ton	16	6.19
Bale Small Square	24,555	5	1,250	Ton	4	3.50
Cart	42,000	5	440,000	bushel	1,540	3.00
Chisel	59,791	5	2,000	acre	11	8.26
Chop Stalks	19,971	5	500	acre	12	5.74
Combine Dryland Corn	53,013	5	1,000	acre	7	10.50
Combine Dryland SB	32,435	5	1,000	acre	7	10.50
Combine Dryland SG	32,435	5	1,000	acre	7	10.50
Combine Irr Corn	53,013	5	1,000	acre	7	10.50
Combine Irr Dry Beans	32,435	5	1,000	acre	5	10.50
Combine Irr SB	32,435	5	1,000	acre	6	10.50
Combine Irr SG	32,435	5	1,000	acre	7	10.50
Combine Irrigated Dry Beans with Draper Flex Platform	32,435	5	1,000	acre	5	10.50
Combine Small Grain	32,435	5	1,000	acre	7	10.47
Combine Sunflowers	53,013	5	1,000	acre	7	10.50
Corrugate	30,000	5	300	acre	7	4.39
Disk	44,962	5	2,000	acre	11	8.29
Double Windrows	7,403	20	300	acre	20	2.11
Drill	66,251	10	1,000	acre	13	4.99
Drill Grass	73,000	10	1,000	acre	9	4.29
Drill No-Till	66,251	5	1,000	acre	12	6.07
Drill w/ Fertilizer	66,251	10	1,000	acre	11	5.00
Fallow Master	59,791	5	2,000	acre	13	8.62
Field Cultivation	59,791	5	2,000	acre	15	8.20
Harrow		5	1,000	acre	19	2.05
Irrigation Ditch	N/A	5	1,000	acre-inch	2	
Irrigation Pipe D 125' Lift	N/A	10	2,600	acre-inch	2	3.03
Irrigation Pivot D 125' Lift	70,000	10	2,600	acre-inch	2	3.34
Irrigation Pivot D 125' Lift w/fertigation	75,000	10	2,600	acre-inch	2	3.34
Irrigation Pivot E 125' Lift	70,000	10	2,600	acre-inch	2	
Irrigation Pivot E 125' Lift w/fertigation	75,000	10	2,600	acre-inch	2	
Lift Beets	110,000	5	1,000	acre	6	6.19
Load Large Square	4,213	5	3,000	ton	20	4.00
Move Large Round	4,213	5	3,000	ton	20	4.00
Pickett Windrowers	32,000	5	1,000	acre	10	6.07
Plant	72,828	5	1,000	acre	10	2.73
Plant Narrow Row	72,828	5	1,000	acre	10	2.58
Plant No-Till	126,703	5	1,000	acre	10	3.38
Plow	15,874	5	1,000	acre	8	6.00
Ridge Cultivate/Ditch	30,000	5	1,000	acre	12	5.33
Ridge Cultivation	30,000	5	1,500	acre	10	5.33
Ridge Plant and Band Herbicide	126,703	5	1,500	acre	10	3.41
Rod Weeder		5	1,000	acre	13	5.35
Rod Weeder & Fertilizer		5	1,000	acre	13	5.35
Roll		5	300	acre	9	5.46
Roller Harrow	30,000	5	1,000	acre	10	5.00
Rotary Hoe	25,000	5	1,000	acre	15	3.67
Row Crop Cultivation	30,000	5	1,000	acre	11	3.50

**Table 2. Machinery Cost Data Used for 2018 Budgets (Continued)**

<i>Operation Name</i>	<i>List Price</i>	<i>Age</i>	<i>Annual Use</i>	<i>Unit</i>	<i>Units per Hour</i>	<i>Diesel Use per Hour</i>
Seeder/Packer	62,545	5	1,000	acre	8	4.29
Spray (Prior Year Stubble)	36,000	5	2,500	acre	25	2.64
Spray Fertilizer	36,000	5	1,000	acre	25	2.64
Spray Fertilizer and Herbicide	36,000	5	1,000	acre	25	2.64
Spray Herbicide	36,000	5	2,500	acre	25	2.64
Spray Insecticide	36,000	5	2,500	acre	25	2.64
Spray Spring Burndown Herbicide	36,000	5	2,500	acre	25	2.64
Spread Fertilizer	N/A	5	1,000	acre	13	3.86
Stack Small Square	13,000	5	1,250	ton	10	2.00
Subsoil	59,791	5	500	acre	9	8.25
Swath/Condition Hay	-	5	2,000	acre	10	5.00
Till Plant Beets	48,000	5	1,000	acre	6	8.25
Top Beets	50,000	5	1,000	acre	6	3.50
Turn Windrows	7,403	5	1,000	acre	12	2.10
Windrow Grain	-	5	3,000	acre	10	5.00

**Table 3. Material Prices Used for 2018 Budgets**

<i>Item</i>	<i>Price per Unit</i>
<b>Additive</b>	
21-0-0-24S	\$0.28/pound
Approved adjuvant	\$2.50/acre
Crop Oil Concentrate	\$8.30/gallon
MSO	\$20.00/gallon
NIS	\$11.00/gallon
UAN	\$1.30/gallon
<b>Custom</b>	
Aerial Spray	\$10.00/acre
Bale Lg Sq 1360 lb	\$15.00/bale
Chop, Haul, Pack	\$10.75/ton
Dry 2 Points Removed	\$0.08/bushel
Haul & Apply Manure	\$6.00/ton
Haul Beets	\$5.00/ton
Haul Grain (Dry Beans)	\$0.28/cwt
Haul Grain (Millet)	\$0.24/cwt
Haul Grain (Sunflower)	\$0.30/cwt
Haul Grain Bushels	\$0.11/bushel
Load Large Square Bales	\$2.00/bale
Spray	\$7.00/acre

<i>Item</i>	<i>Price per Unit</i>
<b>Fertilizer</b>	
10-34-0	\$2.30/gallon
10-34-0-1Zn	\$2.35/gallon
11-52-0	\$0.24/pound
28-0-0	\$1.10/gallon
32-0-0	\$0.32/lbs N
32-0-0 (Applied by Pivot)	\$0.32/lbs N
32-0-0 (Applied by R2)	\$0.32/lbs N
46-0-0	\$0.36/lb N
82-0-0	\$0.26/lb N
Uncomposted manure	\$1.00/ton

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

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

<i>Item</i>	<i>Price per Unit</i>
<b>Herbicide</b>	
2,4-D Amine	\$13.00/gallon
2,4-D Ester 4#	\$17.00/gallon
AAtrex 4L	\$18.00/gallon
Acuron	\$60.00/gallon
Aim 2EC	\$190.00/quart
Ally Extra SGW/TOTSOL	\$9.00/ounce
Armezon Pro	\$170.00/gallon
Atrazine 4L	\$14.00/gallon
Atrazine 90 DF	\$3.80/pound
Authority First DF	\$90.00/pound
Balance Flexx	\$5.00/ounce
Basagran	\$80.00/gallon
Beyond	\$610.00/gallon
Bicep II Magnum	\$45.00/gallon
Brox 2EC	\$34.00/gallon
Dicamba	\$44.00/gallon
DiFlexx	\$220.00/gallon
Distinct	\$40.00/gallon
Engenia	\$120.00/gallon
FeXapan	\$70.00/gallon
Glyphosate w/Surfactant	\$15.00/gallon
Gramoxone SL	\$20.00/gallon
Huskie	\$120.00/gallon
Landmaster BW	\$17.00/gallon
Laudis	\$800.00/gallon
Lumax EZ	\$80.00/gallon
Outlook	\$150.00/gallon
Peak	\$18.00/ounce
Prowl H2O	\$52.00/gallon
Pursuit	\$480.00/gallon
Raptor	\$610.00/gallon
Roundup WeatherMax	\$32.00/gallon
Rugged	\$40.00/gallon
Select Max	\$110.00/gallon
Sharpen	\$870.00/gallon
Spartan 4F	\$270.00/gallon
Spirit	\$12.00/ounce
Status	\$4.30/ounce
Valor XLT	\$92.00/pound
Velpar 75DF	\$40.00/pound
Vida	\$520.00/gallon

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

<b>Other</b>	
Electricity Fixed	\$30.00/acre
Electricity Usage	\$0.11/kw
Fence/Water Repairs	\$260.00/circle
Irrigation District O&M Charge	\$30.00/acre
Move Cattle	\$20.00/hour
Twine Large Round	\$0.70/bale
Twine Large Square	\$1.23/bale
Twine Small Square	\$0.07/bale

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

<b>Scouting</b>	
Scouting Dry Beans	\$10.00/acre
Scouting Dryland Corn	\$7.00/acre
Scouting Dryland Soybeans	\$7.00/acre
Scouting Dryland Wheat	\$7.00/acre
Scouting Grain Sorghum	\$7.00/acre
Scouting Irrigated Corn	\$9.00/acre
Scouting Irrigated Soybeans	\$9.00/acre
Scouting Irrigated Wheat	\$9.00/acre
Scouting Sugar Beets	\$16.00/acre

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

<i>Item</i>	<i>Price per Unit</i>
<b>Seed</b>	
Alfalfa RR w/Inoculant	\$9.00/pound
Alfalfa w/Inoculant	\$6.00/pound
Corn	\$190.00/bag
Corn Bt, ECB, & RIB	\$220.00/bag
Corn Bt, ECB, RR2, & RIB	\$240.00/bag
Corn Bt, ECB, RW, & RIB	\$250.00/bag
Corn Bt, ECB, RW, RR2, & RIB	\$270.00/bag
Corn RR2	\$220.00/bag
Corn SmartStax RIB Complete	\$300.00/bag
Cover Crop	\$15.00/acre
Cover Crop Legume	\$30.00/acre
Edible Beans	\$92.00/cwt
Grass Seed	\$75.00/acre
Millet	\$0.45/pound
Oats	\$11.00/bushel

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

**Converting Energy Numbers in Budgets**

If your energy source is different from that used in the 2018 crop budgets, use *Table 4*, developed by Extension Irrigation Engineer Derrel Martin, to convert from diesel to other energy sources.

For example, to convert diesel in gallons to kilowatt-hours of electricity, the multiplier is 14.12. If electricity is \$0.138 per kilowatt, the calculation would be  $14.12 \times 0.138 = \$1.95$ . The 2018 crop budgets use \$2.25/gallon of diesel. If you use electricity, the cost would be about 50 percent of that cost. However, with electricity you must also include connect charges, and in order to get the best rates, you'll need to sign up for load management.

**Table 4. Conversion of Diesel to Electricity**

*Propane, Gasoline, and Natural Gas\**

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

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

**Diesel Fuel Conversion for Center Pivots**

The 2018 crop production budgets with center pivot irrigation were developed with a pumping lift of 125 feet and 35 psi pressure to determine the amount of diesel fuel used per hour. *Table 5* was developed by Derrel Martin to determine the amount of diesel fuel for various pumping lifts and pressures to pump an acre-inch of water.

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

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

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

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

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