

2019 Nebraska Crop Budgets

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

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

These budgets are available in both Adobe PDF and Excel worksheet formats. Producers can modify them to match their specific situation. The danger of releasing a tool that can subsequently be modified is that there is no way to verify that no alterations have been made or unrealistic data entered. Therefore, users of this tool are responsible for independently verifying all results prior to relying on them.

Original files for these budgets are available at <http://extension.unl.edu/publications> and on <https://cropwatch.unl.edu/budgets>.

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

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

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

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

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

© 2018, The Board of Regents of the University of Nebraska on behalf of the University of Nebraska–Lincoln Extension. All rights reserved.

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

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

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

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							82-0-0
10-34-0	Fertilizer	4	100%	6 gallon	2.45	14.70	
Lumax EZ	Herbicide	4	100%	2.7 quart	20.00	54.00	
AAtrex 4L	Herbicide	4	100%	0.5 quart	4.50	2.25	
Sorghum Safened/Insect	Seed	5	100%	4 pound	3.20	12.80	
Huskie	Herbicide	8	50%	11 ounce	0.94	5.16	
21-0-0-24S	Additive	8	50%	1 pound	0.35	0.18	
* Aerial Spray	Custom	9	15%	1 acre	10.00	1.50	
* Mustang Maxx	Insecticide	9	15%	3 ounce	1.41	0.63	
Haul Grain Bushels	Custom	12	100%	105 bushel	0.11	11.55	
Scouting Grain Sorghum	Scouting		100%	1 acre	7.00	7.00	
	Crop Insurance				20.00	20.00	
Total Materials & Services						160.77	

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

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

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

Cost per bu	3.10
Cash Cost per bu	2.22

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

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

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

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

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							Glyphosate w/Surfactant
2,4-D Ester LV4	Herbicide	1	100%	1 pint	2.13	2.13	
21-0-0-24S	Additive	1	100%	1.7 pound	0.35	0.60	
32-0-0	Fertilizer	2	100%	120 lbs N	0.42	50.40	
Lumax EZ	Herbicide	2	100%	2.7 quart	20.00	54.00	
AAtrex 4L	Herbicide	2	100%	0.5 quart	4.50	2.25	
10-34-0	Fertilizer	3	100%	6 gallon	2.45	14.70	
Sorghum Safened/Insect	Seed	3	100%	4 pound	3.20	12.80	
Huskie	Herbicide	4	50%	11 ounce	0.94	5.16	
21-0-0-24S	Additive	4	50%	1 pound	0.35	0.18	
* Aerial Spray	Custom	5	15%	1 acre	10.00	1.50	
* Mustang Maxx	Insecticide	5	15%	3 ounce	1.41	0.63	
Haul Grain Bushels	Custom	8	100%	125 bushel	0.11	13.75	
Scouting Grain Sorghum	Scouting		100%	1 acre	7.00	7.00	
	Crop Insurance				20.00	20.00	
Total Materials & Services						188.85	

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

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

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

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

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

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

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate w/Surfactant
2,4-D Ester LV4	Herbicide	1	100%	1 pint	2.13	2.13		
21-0-0-24S	Additive	1	100%	1.7 pound	0.35	0.60		
AAtrex 4L	Herbicide	2	100%	1 quart	4.50	4.50		
Gramoxone SL 2.0	Herbicide	2	100%	1.5 pint	3.38	5.06		
32-0-0	Fertilizer	3	100%	110 lbs N	0.42	46.20		
Lumax EZ	Herbicide	3	100%	2.7 quart	20.00	54.00		
10-34-0	Fertilizer	4	100%	6 gallon	2.45	14.70		
Sorghum Safened/Insect	Seed	4	100%	4 pound	3.20	12.80		
Huskie	Herbicide	5	50%	11 ounce	0.94	5.16		
21-0-0-24S	Additive	5	50%	1 pound	0.35	0.18		
* Aerial Spray	Custom	6	15%	1 acre	10.00	1.50		
* Mustang Maxx	Insecticide	6	15%	3 ounce	1.41	0.63		
Haul Grain Bushels	Custom	9	100%	115 bushel	0.11	12.65		
Scouting Grain Sorghum	Scouting		100%	1 acre	7.00	7.00		
	Crop Insurance				20.00	20.00		
Total Materials & Services							190.86	

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

Total listed costs for Field Operations and Materials and Services 249.82

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

Total Operating and Use Related Ownership Costs 256.01

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

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

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

Total Cost per Acre Including Overhead 324.28

Cost per bu 2.82

Cash Cost per bu 2.14

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

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

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

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

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Glyphosate w/Surfactant
2,4-D Ester LV4	Herbicide	1	100%	1 pint	2.13	2.13		
21-0-0-24S	Additive	1	100%	1.7 pound	0.35	0.60		
82-0-0	Fertilizer	2	100%	150 lbs N	0.31	46.50		
Lumax EZ	Herbicide	3	100%	2.7 quart	20.00	54.00		
AAtrex 4L	Herbicide	3	100%	0.5 quart	4.50	2.25		
10-34-0	Fertilizer	4	100%	6 gallon	2.45	14.70		
Sorghum Safened/Insect	Seed	4	100%	6 pound	3.20	19.20		
Huskie	Herbicide	5	50%	11 ounce	0.94	5.16		
21-0-0-24S	Additive	5	50%	1 pound	0.35	0.18		
* Aerial Spray	Custom	6	15%	1 acre	10.00	1.50		
* Mustang Maxx	Insecticide	6	15%	3 ounce	1.41	0.63		
Haul Grain Bushels	Custom	10	100%	165 bushel	0.11	18.15		
Scouting Grain Sorghum	Scouting		100%	1 acre	7.00	7.00		
	Crop Insurance				17.00	17.00		
Total Materials & Services							192.75	

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

Total listed costs for Field Operations and Materials and Services 322.49

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

Total Operating and Use Related Ownership Costs 330.25

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

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

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

Total Cost per Acre Including Overhead 480.91

Cost per bu 2.91

Cash Cost per bu 2.00

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