

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)*

Jessica T. Groskopf, Extension Educator — Agricultural Economics

Jim A. Jansen, Extension Educator — Agricultural Economics

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

Paul J. Jasa, Extension Biological Systems Engineer

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

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.

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

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

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

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

Total listed costs for Field Operations and Materials and Services

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

Cost per ton	31.68
Cash Cost per ton	24.00

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

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

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

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

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

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

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

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

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

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

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

Total listed costs for Field Operations and Materials and Services

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

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

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

Cost per ton

Cash Cost per ton	34.88
	25.96