

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

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

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Prowl H2O	Herbicide	3	100%	2 pint	6.50	13.00	
Edible Beans	Seed	4	100%	0.65 cwt	92.00	59.80	
10-34-0-1Zn	Fertilizer	4	100%	7 gallon	2.35	16.45	
46-0-0	Fertilizer	4	100%	50 lbs N	0.36	18.00	
Electricity Fixed	Other	5	100%	1 acre	30.00	30.00	
Basagran	Herbicide	6	60%	1 pint	10.00	6.00	
Raptor	Herbicide	6	60%	4 ounce	4.77	11.44	
NIS	Additive	6	60%	5 ounce	0.09	0.26	
UAN	Additive	6	60%	4 pint	0.16	0.39	
* Aerial Spray	Custom	7	60%	1 acre	10.00	6.00	
* Asana XL	Insecticide	7	60%	4.5 ounce	0.55	1.48	
Aerial Spray	Custom	8	100%	1 acre	10.00	10.00	
Copper	Fungicide	8	100%	2 pint	3.50	7.00	
Priaxor	Fungicide	8	100%	4 ounce	5.47	21.88	
Haul Grain (Dry Beans)	Custom	11	100%	27 cwt	0.28	7.56	
Wheat	Seed	12	100%	30 pound	0.10	3.00	
Scouting Dry Beans	Scouting		100%	1 acre	10.00	10.00	
Crop Insurance					16.30	16.30	
Total Materials & Services						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	
Total for Field Operations			39.73	23.92	17.97	14.27	43.06	19.48	158.43	

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

* Mexican Bean Beetle and Western Bean Cutworm

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

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

Cost per cwt	20.12
Cash Cost per cwt	13.24

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

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

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

* Mexican Bean Beetle and Western Bean Cutworm

Total listed costs for Field Operations and Materials and Services 423.82

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

Total Operating and Use Related Ownership Costs 433.91

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

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

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

Total Cost per Acre Including Overhead 566.51

Cost per cwt 20.98

Cash Cost per cwt 13.96

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

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

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

* Mexican Bean Beetle and Western Bean Cutworm

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

Total Operating and Use Related Ownership Costs	457.43
--	--------

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	590.03
---	--------

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.