

2021 Nebraska Crop Budgets

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The 2021 Nebraska Crop 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>.

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**2021 Budget 41-Dry Beans, Panhandle, Reduced Till, after Harvest Cover Crop, 27 cwt Yield
Pivot Irrigated Electric, 800 GPM 35 PSI, 8 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$1.50 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.52	1.31	0.65	1.40	5.85	1.25	12.98	
2 Field Cultivation	1		1.83	0.94	0.77	1.47	2.26	1.67	8.94	
3 Spray Herbicide	1		0.95	0.14	0.35	0.60	1.03	1.08	4.15	
4 Plant	1		3.00	0.47	1.16	5.31	3.39	7.38	20.71	
5 Pivot E 125' Lift	8	ai	6.94	22.81	2.34	13.83	4.10	7.59	57.61	
6 Spray Herbicide	1		0.95	0.14	0.35	0.60	1.03	1.08	4.15	
7 Aerial Spray	Custom									
8 Aerial Spray	Custom									
9 Pickett Windrowers	1		2.75	1.05	1.16	0.72	3.39	1.27	10.34	
10 Combine Irr Dry Beans	1		5.00	3.29	12.18	2.69	13.01	4.38	40.55	
11 Truck	Custom									
12 Drill	1		2.20	0.69	0.92	3.38	2.71	2.69	12.59	
Total for Field Operations			26.14	30.84	19.88	30.00	36.77	28.39	172.02	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							Outlook
Prowl H2O	Herbicide	3	100%	2 pint	6.50	13.00	
Edible Beans	Seed	4	100%	0.65 cwt	90.00	58.50	
10-34-0-1Zn	Fertilizer	4	100%	7 gallon	2.05	14.35	
46-0-0	Fertilizer	4	100%	50 lbs N	0.38	19.00	
Electricity Fixed	Other	5	100%	1 acre	30.00	30.00	
Basagran 5L	Herbicide	6	60%	1 pint	10.00	6.00	
Raptor	Herbicide	6	60%	4 ounce	4.69	11.25	
NIS	Additive	6	60%	5 ounce	0.16	0.47	
UAN	Additive	6	60%	4 pint	0.16	0.38	
* Aerial Spray	Custom	7	60%	1 acre	10.00	6.00	
* Asana XL	Insecticide	7	60%	5.8 ounce	0.59	2.04	
Aerial Spray	Custom	8	100%	1 acre	10.00	10.00	
Copper	Fungicide	8	100%	2 pint	4.00	8.00	
Priaxor	Fungicide	8	100%	4 ounce	4.69	18.75	
Haul Grain (Dry Beans)	Custom	11	100%	27 cwt	0.28	7.56	
Wheat Cover Crop	Seed	12	100%	30 pound	0.10	3.00	
Scouting Dry Beans	Scouting		100%	1 acre	10.00	10.00	
Crop Insurance					23.00	23.00	

Total Materials & Services Electricity connect fee 6 months @ \$72/mo 133 acres 258.80

*Insecticide for Mexican bean beetle and Western Bean Cutworm (10%).
Total listed costs for Field Operations and Materials and Services 430.82

Interest on Operations Capital \$ 365.66 cash expense @ 5.50% for 6.0 mo. 10.06

Total Operating and Use Related Ownership Costs 440.88

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

Real Estate Opportunity[^] Pivot (Panhandle) \$ 2,460 per acre @ 3.00% 73.80

Real Estate Taxes \$ 2,460 per acre @ 1.25% 30.75

Total Cost per Acre Including Overhead 570.43

Cash Cost per cwt ^{^Ownership and RE Opportunity not included in cash costs.} 15.98

Cost of production per cwt 21.13

**2021 Budget 42-Dry Beans, Panhandle, Conventional Tillage, 27 cwt Yield
Gravity Irrigated, fed by canal, 10 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$1.50 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Chop Stalks	1		2.23	0.80	0.94	0.35	2.75	1.59	8.66	
2 Disk	2		5.04	2.62	1.30	2.80	11.69	2.51	25.96	
3 Spray Herbicide	1		0.95	0.14	0.35	0.60	1.03	1.08	4.15	
4 Plow	1		3.67	1.38	0.95	0.93	8.50	0.57	16.00	
5 Roller Harrow	1		2.50	0.86	1.16	0.57	3.39	1.67	10.15	
6 Field Cultivation	1		1.83	0.94	0.77	1.47	2.26	1.67	8.94	
7 Plant	1		3.00	0.47	1.16	5.31	3.39	7.38	20.71	
8 Spray Herbicide	0.6		0.57	0.08	0.21	0.36	0.62	0.65	2.49	
9 Row Crop Cultivation	1		2.50	0.55	1.05	0.44	3.08	1.52	9.14	
10 Ridge Cultivate/Ditch	1		2.29	0.77	0.96	0.37	2.83	1.52	8.74	
11 Ditch Irrigation	10	ai	13.89	0.00	3.43	0.00	7.69	0.00	25.01	
12 Aerial Spray	Custom									
13 Aerial Spray	Custom									
14 Pickett Windrowers	1		2.75	1.05	1.16	0.72	3.39	1.27	10.34	
15 Combine Irr Dry Beans	1		5.00	3.29	12.18	2.69	13.01	4.38	40.55	
16 Truck	Custom									
Total for Field Operations			46.22	12.95	25.62	16.61	63.63	25.81	190.84	

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	90.00	58.50
10-34-0-1Zn	Fertilizer	7	100%	7 gallon	2.05	14.35
46-0-0	Fertilizer	7	100%	50 lbs N	0.38	19.00
Basagran 5L	Herbicide	8	60%	1.2 pint	10.00	7.20
Raptor	Herbicide	8	60%	4 ounce	4.69	11.25
NIS	Additive	8	60%	5 ounce	0.16	0.47
UAN	Additive	8	60%	4 pint	0.16	0.38
* Aerial Spray	Custom	12	60%	1 acre	10.00	6.00
* Asana XL	Insecticide	12	60%	5.8 ounce	0.59	2.04
Aerial Spray	Custom	13	100%	1 acre	10.00	10.00
Copper	Fungicide	13	100%	2 pint	4.00	8.00
Priaxor	Fungicide	13	100%	4 ounce	4.69	18.75
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				23.00	23.00
Total Materials & Services						257.00

* Mexican Bean Beetle and Western Bean Cutworm

Total listed costs for Field Operations and Materials and Services		447.84
Interest on Operations Capital \$ 358.40 cash expense @ 5.50% for 6.0 mo.		9.86
Total Operating and Use Related Ownership Costs		457.70
Overhead (accounting, liability insurance, vehicle cost, office expense)		25.00
Real Estate Opportunity [^] Gravity (Panhandle) \$ 2,135 per acre @ 3.00%		64.05
Real Estate Taxes \$ 2,135 per acre @ 1.25%		26.69
Total Cost per Acre Including Overhead		573.44
Cash Cost per cwt	[^] Ownership and RE Opportunity not included in cash costs.	15.55
Cost of production per cwt		21.24

**2021 Budget 43-Dry Beans, Panhandle, Conventional Tillage, 27 cwt Yield
Pivot Irrigated Electric, 800 GPM 35 PSI, 9 acre/inches**

	Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$1.50 and Lube	Repairs		Ownership [^]		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Disk	2		5.04	2.62	1.30	2.80	11.69	2.51	25.96	
2	Chisel	1		2.48	1.29	1.04	2.16	3.06	1.55	11.58	
3	Spray Herbicide	1		0.95	0.14	0.35	0.60	1.03	1.08	4.15	
4	Field Cultivation	1		1.83	0.94	0.77	1.47	2.26	1.67	8.94	
5	Plant	1		3.00	0.47	1.16	5.31	3.39	7.38	20.71	
6	Spray Herbicide	0.6		0.57	0.08	0.21	0.36	0.62	0.65	2.49	
7	Row Crop Cultivation	1		2.50	0.55	1.05	0.44	3.08	1.52	9.14	
8	Pivot E 125' Lift	9	ai	7.81	25.66	2.63	15.56	4.61	8.54	64.81	
9	Aerial Spray	Custom									
10	Aerial Spray	Custom									
11	Pickett Windrowers	1		2.75	1.05	1.16	0.72	3.39	1.27	10.34	
12	Combine Irr Dry Beans	1		5.00	3.29	12.18	2.69	13.01	4.38	40.55	
13	Truck	Custom									
Total for Field Operations				31.93	36.09	21.85	32.11	46.14	30.55	198.67	

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	90.00	58.50	
10-34-0-1Zn	Fertilizer	5	100%	7 gallon	2.05	14.35	
46-0-0	Fertilizer	5	100%	50 lbs N	0.38	19.00	
Raptor	Herbicide	6	60%	4 ounce	4.69	11.25	
Basagran 5L	Herbicide	6	60%	1.2 pint	10.00	7.20	
NIS	Additive	6	60%	5 ounce	0.16	0.47	
UAN	Additive	6	60%	4 pint	0.16	0.38	
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%	5.8 ounce	0.59	2.04	
Aerial Spray	Custom	10	100%	1 acre	10.00	10.00	
Copper	Fungicide	10	100%	2 pint	4.00	8.00	
Priaxor	Fungicide	10	100%	4 ounce	4.69	18.75	
Haul Grain (Dry Beans)	Custom	13	100%	27 cwt	0.28	7.56	
Scouting Dry Beans	Scouting		100%	1 acre	10.00	10.00	
	Crop Insurance				23.00	23.00	
Total Materials & Services						257.00	

* Mexican Bean Beetle and Western Bean Cutworm

Total listed costs for Field Operations and Materials and Services 455.67

Interest on Operations Capital \$ 378.98 cash expense @ 5.50% for 6.0 mo. 10.42

Total Operating and Use Related Ownership Costs 466.09

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

Real Estate Opportunity[^] Pivot (Panhandle) \$ 2,460 per acre @ 3.00% 73.80

Real Estate Taxes \$ 2,460 per acre @ 1.25% 30.75

Total Cost per Acre Including Overhead 595.64

Cash Cost per cwt [^]Ownership and RE Opportunity not included in cash costs. 16.49

Cost of production per cwt 22.06

**2021 Budget 44-Dry Beans, Direct Harvest, Panhandle, Conventional Tillage, 27 cwt Yield
Pivot Irrigated Electric, 800 GPM 35 PSI, 9 acre/inches**

	Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$1.50 and Lube	Repairs		Ownership [^]		Total	Your Estimate
						Power	Imp.	Power	Imp.		
1	Disk	2		5.04	2.62	1.30	2.80	11.69	2.51	25.96	
2	Chisel	1		2.48	1.29	1.04	2.16	3.06	1.55	11.58	
3	Spray Herbicide	1		0.95	0.14	0.35	0.60	1.03	1.08	4.15	
4	Field Cultivation	1		1.83	0.94	0.77	1.47	2.26	1.67	8.94	
5	Plant	1		3.00	0.47	1.16	5.31	3.39	7.38	20.71	
6	Spray Herbicide	0.6		0.57	0.08	0.21	0.36	0.62	0.65	2.49	
7	Pivot E 125' Lift	9	ai	7.81	25.66	2.63	15.56	4.61	8.54	64.81	
8	Aerial Spray	Custom									
9	Aerial Spray	Custom									
10	Spray Herbicide	0.1		0.09	0.01	0.04	0.06	0.10	0.11	0.41	
11	Combine Irrigated Dry Beans with Draper Flex Platform	1		5.00	3.29	12.18	2.69	13.01	4.38	40.55	
12	Truck	Custom									
Total for Field Operations				26.77	34.50	19.68	31.01	39.77	27.87	179.60	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
								Outlook
Prowl H2O	Herbicide	3	100%	2 pint	6.50	13.00		
Edible Beans	Seed	5	100%	1 cwt	90.00	90.00		
10-34-0-1Zn	Fertilizer	5	100%	7 gallon	2.05	14.35		
46-0-0	Fertilizer	5	100%	50 lbs N	0.38	19.00		
Raptor	Herbicide	6	60%	4 ounce	4.69	11.25		
Basagran 5L	Herbicide	6	60%	1.2 pint	10.00	7.20		
NIS	Additive	6	60%	5 ounce	0.16	0.47		
UAN	Additive	6	60%	4 pint	0.16	0.38		
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%	5.8 ounce	0.59	2.04		
Aerial Spray	Custom	9	100%	1 acre	10.00	10.00		
Copper	Fungicide	9	100%	2 pint	4.00	8.00		
Priaxor	Fungicide	9	100%	4 ounce	4.69	18.75		
Gramoxone SL 2.0	Herbicide	10	10%	2 pint	2.00	0.40		
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				23.00	23.00		
Total Materials & Services							288.90	

* Mexican Bean Beetle and Western Bean Cutworm

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 400.86	cash expense @	5.50%	for 6.0 mo.	11.02
Total Operating and Use Related Ownership Costs				479.52

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

Real Estate Opportunity [^]	Pivot (Panhandle)	\$ 2,460	per acre @	3.00%	73.80
Real Estate Taxes		\$ 2,460	per acre @	1.25%	30.75
Total Cost per Acre Including Overhead					609.07

Cash Cost per cwt	[^] Ownership and RE Opportunity not included in cash costs.	17.32
Cost of production per cwt		22.56

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.