(Revised November 2015)

2016 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.

Additional Resource Persons

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2016 Budget 34-Dry Beans, Reduced Till with Wheat Cover Crop after Harvest (25 cwt Actual Yield) Pivot Irrigated, 800 GPM 35 PSI, 8 acre/inches

						Repairs		Ownership				
		Times		Labor @	Fuel @ \$2.25	•			•		Your	
	Field Operations	or Qty	Unit	\$20.00 /Hr	and Lube	Power	Imp.	Power	Imp.	Total	Estimate	
1	Disk	1		2.02	1.97	0.29	1.24	4.14	1.21	10.87		
2	Field Cultivation	1		1.47	1.41	0.56	1.28	1.84	1.57	8.13		
3	Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23		
4	Plant	1		2.40	0.71	0.83	2.54	2.76	3.89	13.13		
5	Pivot E 125' Lift	8	ai	5.56	22.30	2.34	12.91	4.24	7.72	55.07		
6	Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23		
7	Aerial Spray	Custom										
8	Aerial Spray	Custom										
9	Pickett Windrowers	1		2.20	1.57	0.83	0.72	2.76	1.38	9.46		
10	Combine Irr Dry Beans	1		4.40	5.43	10.23	2.01	8.39	2.81	33.27		
11	Truck	Custom										
12	Drill	1		1.76	1.03	0.67	2.94	2.21	2.62	11.23		
	Total for Field	d Operations		21.81	34.96	16.41	24.92	28.56	22.96	149.62		

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Outlook	Herbicide	3	100%	14 ounce	1.17	16.41	
Prowl H2O	Herbicide	3	100%	2 pint	6.50	13.00	
Edible Beans	Seed	4	100%	0.65 cwt	92.00	59.80	
10-34-0-1Z	Fertilizer	4	100%	7 gallon	2.85	19.95	
32-0-0	Fertilizer	4	100%	7 lbs N	0.47	3.29	
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	0.17	0.52	
UAN	Additive	6	60%	4 pint	0.21	0.50	
* Aerial Spray	Custom	7	60%	1 acre	9.50	5.70	•
* Asana XL	Insecticide	7	60%	4.5 ounce	0.66	1.79	
Aerial Spray	Custom	8	100%	1 acre	9.50	9.50	
Copper	Fungicide	8	100%	2 pint	3.50	7.00	
Priaxor	Fungicide	8	100%	4 ounce	5.23	20.94	
Haul Grain (Dry Beans)	Custom	11	100%	25 cwt	0.28	7.00	
Wheat	Seed	12	100%	30 pound	0.12	3.60	
Scouting Dry Beans	Scouting		100%	1 acre	10.00	10.00	
Dry Beans	Crop Insurance				16.30	16.30	
Total Materials *Insecticide for Mexican bean beetle and V		Electricity con	nect fee 6 mor	nths @ \$72/mo 133	acres	242.74	
Total listed costs for Field Opera	ations and Materials and Serv					392.36	
Interest on	Operations Capital \$ 340.84	cash expe	ense @	5.50% for 6.0 mo	. <u>.</u>	9.37	
Total Operating and Use Relate	d Ownership Costs					401.73	
Overhead (accounting, liability	insurance, vehicle cost, office e	xpense)				20.00	
Real Estate Opportunity	Pivot (Panhandle)	\$ 3,625	per acre	@ 4.00%		145.00	
Real Estate Taxes		\$ 3,625	per acre	@ 1.00%	· _	36.25	•
Total Cost per Acre Including O	verhead				-	602.98	
Cost per cwt						24.12	
Cash Cost per cwt						15.46	

2016 Budget 35-Dry Beans, Conventional Tillage (25 cwt Actual Yield) Canal Irrigated, Gravity, 10 acre/inches

	Times		Labor @ Fuel @ \$2.25		Repairs		Ownership			Your	
	Field Operations		Unit \$20.			Power	Imp.	Power	Imp.	Total	Estimate
1	Chop Stalks	1		1.78	1.20	0.68	0.34	2.24	1.69	7.93	
2	Disk	2	4	1.03	3.93	0.58	2.49	8.29	2.41	21.73	
3	Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
4	Plow	1		2.93	2.07	0.42	0.83	6.03	0.56	12.84	
5	Roller Harrow	1		2.00	1.29	0.83	0.52	2.76	1.64	9.04	
6	Field Cultivation	1		1.47	1.41	0.56	1.28	1.84	1.57	8.13	
7	Plant	1		2.40	0.71	0.83	2.54	2.76	3.89	13.13	
8	Spray	0.6	(0.60	0.16	0.20	0.38	0.66	0.53	2.53	
9	Row Crop Cultivation	1		2.00	0.82	0.76	0.44	2.51	1.64	8.17	
10	Ridge Cultivate/Ditch	1		1.83	1.15	0.69	0.37	2.30	1.64	7.98	
11	Ditch Irrigation	10	ai 1	1.11	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	1.57	0.83	0.72	2.76	1.38	9.46	
15	Combine Irr Dry Beans	1	4	1.40	5.43	10.23	2.01	8.39	2.81	33.27	
16	Truck	Custom									
17	Chisel	1		1.98	1.93	0.75	2.02	2.49	1.57	10.74	
	Total f	or Field Operations	39	9.73	21.94	17.69	14.58	44.14	22.21	160.29	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Outlook	Herbicide	3	100%	14 ounce	1.17	16.41	
Prowl H2O	Herbicide	3	100%	2 pint	6.50	13.00	
Edible Beans	Seed	7	100%	0.65 cwt	92.00	59.80	
10-34-0-1Z	Fertilizer	7	100%	7 gallon	2.85	19.95	
32-0-0	Fertilizer	7	100%	7 lbs N	0.47	3.29	
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	0.17	0.52	
UAN	Additive	8	60%	4 pint	0.21	0.50	
* Aerial Spray	Custom	12	60%	1 acre	9.50	5.70	
* Asana XL	Insecticide	12	60%	4.5 ounce	0.66	1.79	
Aerial Spray	Custom	13	100%	1 acre	9.50	9.50	
Copper	Fungicide	13	100%	2 pint	3.50	7.00	
Priaxor	Fungicide	13	100%	4 ounce	5.23	20.94	
Haul Grain (Dry Beans)	Custom	16	100%	25 cwt	0.28	7.00	
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	
Dry Beans	Crop Insurance				16.30	16.30	
Total Materials &	Services					239.14	
* Mexican Bean Beetle and Western Bean Cu		•				399.43	
Total listed costs for Field Operati				5.500/ f (0			
	perations Capital \$ 333.08	cash expe	ense @	5.50% for 6.0 mo.	=	9.16	
Total Operating and Use Related (Ownership Costs					408.59	
Overhead (accounting, liability ins	surance, vehicle cost, office ex	xpense)				20.00	
Real Estate Opportunity	Gravity (Panhandle)	\$ 3,235	per acr	re @ 4.00%		129.40	
Real Estate Taxes		\$ 3,235	per acr	re @ 1.00%		32.35	
Total Cost per Acre Including Ove	erhead		·		=	590.34	
Cost per cwt						23.61	
Cash Cost per cwt						14.98	

2016 Budget 36-Dry Beans, Conventional Tillage Using Pumped Water (25 cwt Actual Yield) Pivot Irrigated, 800 GPM 35 PSI, 9 acre/inches

						Repairs		Ownership			T 7	
	Field Operations	Times or Qty	Unit	Labor @ \$20.00 /Hr	Fuel @ \$2.25 and Lube	Power	Imp.	Power	Imp.	Total	Your Estimate	
1	Disk	2		4.03	3.93	0.58	2.49	8.29	2.41	21.73	<u> </u>	
2	Chisel	1		1.98	1.93	0.75	2.02	2.49	1.57	10.74		
3	Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23		
4	Field Cultivation	1		1.47	1.41	0.56	1.28	1.84	1.57	8.13		
5	Plant	1		2.40	0.71	0.83	2.54	2.76	3.89	13.13		
6	Spray	0.6		0.60	0.16	0.20	0.38	0.66	0.53	2.53		
7	Row Crop Cultivation	1		2.00	0.82	0.76	0.44	2.51	1.64	8.17		
8	Pivot E 125' Lift	9	ai	6.25	25.08	2.63	14.53	4.77	8.69	61.95		
9	Aerial Spray	Custom										
10	Aerial Spray	Custom										
11	Pickett Windrowers	1		2.20	1.57	0.83	0.72	2.76	1.38	9.46		
12	Combine Irr Dry Beans	1		4.40	5.43	10.23	2.01	8.39	2.81	33.27		
13	Truck	Custom										
	Total for	r Field Operations		26.33	41.31	17.70	27.05	35.58	25.37	173.34		

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Outlook	Herbicide	3	100%	14 ounce	1.17	16.41	
Prowl H2O	Herbicide	3	100%	2 pint	6.50	13.00	
Edible Beans	Seed	5	100%	0.65 cwt	92.00	59.80	
10-34-0-1Z	Fertilizer	5	100%	7 gallon	2.85	19.95	
32-0-0	Fertilizer	5	100%	7 lbs N	0.47	3.29	
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	0.17	0.52	
UAN	Additive	6	60%	4 pint	0.21	0.50	
Electricity Fixed	Other	8	100%	1 acre	30.00	30.00	
* Aerial Spray	Custom	9	60%	1 acre	9.50	5.70	
* Asana XL	Insecticide	9	60%	4.5 ounce	0.66	1.79	
Aerial Spray	Custom	10	100%	1 acre	9.50	9.50	
Copper	Fungicide	10	100%	2 pint	3.50	7.00	
Priaxor	Fungicide	10	100%	4 ounce	5.23	20.94	
Haul Grain (Dry Beans)	Custom	13	100%	25 cwt	0.28	7.00	
Scouting Dry Beans	Scouting		100%	1 acre	10.00	10.00	
Dry Beans	Crop Insurance				16.30	16.30	
* Mexican Bean Beetle and Western Bean C						239.14	
Total listed costs for Field Opera		vices				412.48	
	Operations Capital \$ 351.53	cash expe	ense @	5.50% for 6.0 mo.		9.67	
Total Operating and Use Related	-	1			=	422.15	
Overhead (accounting, liability in	nsurance, vehicle cost, office e	expense)				20.00	
Real Estate Opportunity	Pivot (Panhandle)	\$ 3,625	per acr	re @ 4.00%		145.00	
Real Estate Taxes	, , , , , , , , , , , , , , , , , , , ,	\$ 3,625	per acr	re @ 1.00%		36.25	
Total Cost per Acre Including Ov	verhead				=	623.40	
Cost per cwt						24.94	
Cash Cost per cwt						15.90	

2016 Budget 37-Dry Beans, Direct Harvest, Conventional Tillage Using Pumped Water (25 cwt Actual Yield) Pivot Irrigated, 800 GPM 35 PSI, 9 acre/inches

						Rep	airs	Owne	rship		
		Times	TT *4		Fuel @ \$2.25	_	_	_	-		Your
	Field Operations	or Qty	Unit	\$20.00 /Hr	and Lube	Power	Imp.	Power	Imp.	Total	Estimate
1	Disk	2		4.03	3.93	0.58	2.49	8.29	2.41	21.73	
2	Chisel	1		1.98	1.93	0.75	2.02	2.49	1.57	10.74	
3	Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
4	Field Cultivation	1		1.47	1.41	0.56	1.28	1.84	1.57	8.13	
5	Plant	1		2.40	0.71	0.83	2.54	2.76	3.89	13.13	
6	Spray	0.6		0.60	0.16	0.20	0.38	0.66	0.53	2.53	
7	Row Crop Cultivation	1		2.00	0.82	0.76	0.44	2.51	1.64	8.17	
8	Pivot E 125' Lift	9	ai	6.25	25.08	2.63	14.53	4.77	8.69	61.95	
9	Aerial Spray	Custom									
10	Aerial Spray	Custom									
11	Spray	1		1.00	0.27	0.33	0.64	1.11	0.88	4.23	
12	Combine Irrigated Dry Beans with	1		4.40	5.43	10.23	2.01	9.20	2.81	33.27	
	Draper Flex Platform	1		4.40	3.43	10.23	2.01	8.39	2.81	33.27	
13	Truck	Custom									
	Total for Field O	nerations	,	25.13	40.01	17.20	26.97	33.93	24 87	168 11	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Outlook	Herbicide	3	100%	14 ounce	1.17	16.41	
Prowl H2O	Herbicide	3	100%	2 pint	6.50	13.00	
Edible Beans	Seed	5	100%	1 cwt	92.00	92.00	
10-34-0-1Z	Fertilizer	5	100%	7 gallon	2.85	19.95	
32-0-0	Fertilizer	5	100%	7 lbs N	0.47	3.29	
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	0.17	0.52	
UAN	Additive	6	60%	4 pint	0.21	0.50	
Electricity Fixed	Other	8	100%	1 acre	30.00	30.00	
* Aerial Spray	Custom	9	60%	1 acre	9.50	5.70	
* Asana XL	Insecticide	9	60%	4.5 ounce	0.66	1.79	
Aerial Spray	Custom	10	100%	1 acre	9.50	9.50	
Copper	Fungicide	10	100%	2 pint	3.50	7.00	
Priaxor	Fungicide	10	100%	4 ounce	5.23	20.94	
Gramoxone SL	Herbicide	11	100%	2 pint	5.38	10.75	
Haul Grain (Dry Beans)	Custom	13	100%	25 cwt	0.28	7.00	
Scouting Dry Beans	Scouting		100%	1 acre	10.00	10.00	
Dry Beans	Crop Insurance				16.30	16.30	
Total Materials * Mexican Bean Beetle and Western Bean						282.09	
Total listed costs for Field Operation	ations and Materials and Serv	rices				450.20	
-	Operations Capital \$ 391.40	cash expe	ense @	5.50% for 6.0 mo.		10.76	
Total Operating and Use Relate	• •	1			=	460.96	
Overhead (accounting, liability	insurance, vehicle cost, office e	expense)				20.00	
Real Estate Opportunity	Pivot (Panhandle)	\$ 3,625	per acr	e @ 4.00%		145.00	
Real Estate Taxes		\$ 3,625	per acr	e @ 1.00%		36.25	
Total Cost per Acre Including C	verhead				=	662.21	
Cost per cwt						26.49	
Cash Cost per cwt						17.54	

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.