

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.

9-Alfalfa, Large Round Bale, 4.4 ton Yield, Dryland

**2019 Budget 9-Alfalfa, Large Round Bale, 4.4 ton 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 Spread Fertilizer	1		1.57	0.87	0.68	0.00	2.12	0.00	5.24	
2 Swath/Condition Hay	4		8.00	5.73	9.23	0.00	13.33	0.00	36.29	
3 Turn Windrows	1		1.67	0.50	0.72	0.11	2.25	0.29	5.54	
4 Double Windrows	3		3.30	0.91	1.30	0.16	4.04	1.11	10.82	
5 Bale Large Round	4.4	ton	9.68	3.62	3.80	4.73	11.86	4.55	38.24	
6 Move Large Round	4.4	ton	4.84	2.52	1.90	0.00	5.93	0.25	15.44	
7 Spray Insecticide	0.25		0.25	0.08	0.09	0.16	0.27	0.20	1.05	
Total for Field Operations			29.31	14.23	17.72	5.16	39.80	6.40	112.62	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
11-52-0	Fertilizer	1	100%	50 pound	0.27	13.50
Twine Large Round	Other	5	100%	4.4 ton	0.91	4.00
Mustang Maxx	Insecticide	7	25%	3 ounce	1.41	1.05
Total Materials & Services					18.55	

Total listed costs for Field Operations and Materials and Services 131.17

Interest on Operations Capital \$ 84.97 cash expense @ 5.50% for 6.0 mo.

Total Operating and Use Related Ownership Costs 133.51

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

Real Estate Opportunity Dryland (State) \$ 3,100 per acre @ 3.00% 93.00

Real Estate Taxes \$ 3,100 per acre @ 1.35% 41.85

Total Cost per Acre Including Overhead 288.36

Cost per ton 65.54

Cash Cost per ton 29.35

9-Alfalfa, Large Round Bale, 4.4 ton Yield, Dryland

**2019 Budget 9-Alfalfa, Large Round Bale, 4.4 ton 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	Spread Fertilizer	1		1.57	0.87	0.68	0.00	2.12	0.00	5.24	
2	Swath/Condition Hay	4		8.00	5.73	9.23	0.00	13.33	0.00	36.29	
3	Turn Windrows	1		1.67	0.50	0.72	0.11	2.25	0.29	5.54	
4	Double Windrows	3		3.30	0.91	1.30	0.16	4.04	1.11	10.82	
5	Bale Large Round	4.4	ton	9.68	3.62	3.80	4.73	11.86	4.55	38.24	
6	Move Large Round	4.4	ton	4.84	2.52	1.90	0.00	5.93	0.25	15.44	
7	Spray Insecticide	0.25		0.25	0.08	0.09	0.16	0.27	0.20	1.05	
Total for Field Operations				29.31	14.23	17.72	5.16	39.80	6.40	112.62	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							11-52-0
Twine Large Round	Other	5	100%	4.4 ton	0.91	4.00	
Mustang Maxx	Insecticide	7	25%	3 ounce	1.41	1.05	
Total Materials & Services						18.55	

Total listed costs for Field Operations and Materials and Services 131.17

Interest on Operations Capital \$ 84.97 cash expense @ 5.50% for 6.0 mo.

Total Operating and Use Related Ownership Costs 133.51

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

Real Estate Opportunity \$ 3,100 per acre @ 3.00% 93.00

Real Estate Taxes \$ 3,100 per acre @ 1.35% 41.85

Total Cost per Acre Including Overhead 288.36

Cost per ton 65.54

Cash Cost per ton 29.35

10-Alfalfa, Large and Small Square Bale, 6.7 ton Yield, Pivot Irrigated Electric

**2019 Budget 10-Alfalfa, Large and Small Square Bale, 6.7 ton Yield
Pivot Irrigated Electric, 800 GPM 35 PSI, 16 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 Spread Fertilizer	1		1.57	0.87	0.68	0.00	2.12	0.00	5.24	
2 Swath/Condition Hay	4		8.00	5.73	9.23	0.00	13.33	0.00	36.29	
3 Turn Windrows	1		1.67	0.50	0.72	0.11	2.25	0.29	5.54	
4 Double Windrows	4		4.40	1.21	1.73	0.22	5.39	1.48	14.43	
5 Bale Large Square	4.5	ton	6.14	4.95	2.41	2.58	7.53	24.86	48.47	
6 Load Large Square		Custom ton								
7 Bale Small Square	2.2	ton	12.28	5.60	4.82	8.75	15.05	2.02	48.52	
8 Load Small Square	2.2	ton	4.47	1.28	1.93	0.64	6.02	0.92	15.26	
9 Pivot E 125' Lift	16	ai	11.11	44.59	4.68	25.82	8.20	14.17	108.57	
10 Spray Herbicide	0.25		0.25	0.08	0.09	0.16	0.27	0.20	1.05	
11 Spray Insecticide	0.25		0.25	0.08	0.09	0.16	0.27	0.20	1.05	
Total for Field Operations			50.14	64.89	26.38	38.44	60.43	44.14	284.42	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
11-52-0	Fertilizer	1	100%	75 pound	0.27	20.25	
Twine Large Square	Other	5	100%	4.467 ton	1.81	8.07	
Load Large Square Bales	Custom	6	100%	4.467 ton	2.94	13.12	
Twine Small Square	Other	7	100%	2.233 ton	2.33	5.21	
Electricity Fixed	Other	9	100%	1 acre	30.00	30.00	
Pursuit	Herbicide	10	25%	4.5 ounce	3.75	4.22	
Crop Oil Concentrate	Additive	10	25%	1.6 pint	1.34	0.54	
UAN	Additive	10	25%	2 pint	0.19	0.10	
Mustang Maxx	Insecticide	11	25%	3 ounce	1.41	1.05	
Total Materials & Services						82.56	

Total listed costs for Field Operations and Materials and Services						366.98	
Interest on Operations Capital	\$ 262.41	cash expense @	5.50%	for 6.0 mo.		7.22	
Total Operating and Use Related Ownership Costs						374.20	
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Pivot (State)	\$ 6,130	per acre @	3.00%		183.90	
Real Estate Taxes		\$ 6,130	per acre @	1.35%		82.76	
Total Cost per Acre Including Overhead						660.86	
Cost per ton						98.64	
Cash Cost per ton						52.59	

10-Alfalfa, Large and Small Square Bale, 6.7 ton Yield, Pivot Irrigated Electric

**2019 Budget 10-Alfalfa, Large and Small Square Bale, 6.7 ton Yield
Pivot Irrigated Electric, 800 GPM 35 PSI, 16 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 Spread Fertilizer	1		1.57	0.87	0.68	0.00	2.12	0.00	5.24	
2 Swath/Condition Hay	4		8.00	5.73	9.23	0.00	13.33	0.00	36.29	
3 Turn Windrows	1		1.67	0.50	0.72	0.11	2.25	0.29	5.54	
4 Double Windrows	4		4.40	1.21	1.73	0.22	5.39	1.48	14.43	
5 Bale Large Square	4.5	ton	6.14	4.95	2.41	2.58	7.53	24.86	48.47	
6 Load Large Square		Custom ton								
7 Bale Small Square	2.2	ton	12.28	5.60	4.82	8.75	15.05	2.02	48.52	
8 Load Small Square	2.2	ton	4.47	1.28	1.93	0.64	6.02	0.92	15.26	
9 Pivot E 125' Lift	16	ai	11.11	44.59	4.68	25.82	8.20	14.17	108.57	
10 Spray Herbicide	0.25		0.25	0.08	0.09	0.16	0.27	0.20	1.05	
11 Spray Insecticide	0.25		0.25	0.08	0.09	0.16	0.27	0.20	1.05	
Total for Field Operations			50.14	64.89	26.38	38.44	60.43	44.14	284.42	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Twine Large Square	Other	5	100%	4.467 ton	1.81	8.07	
Load Large Square Bales	Custom	6	100%	4.467 ton	2.94	13.12	
Twine Small Square	Other	7	100%	2.233 ton	2.33	5.21	
Electricity Fixed	Other	9	100%	1 acre	30.00	30.00	
Pursuit	Herbicide	10	25%	4.5 ounce	3.75	4.22	
Crop Oil Concentrate	Additive	10	25%	1.6 pint	1.34	0.54	
UAN	Additive	10	25%	2 pint	0.19	0.10	
Mustang Maxx	Insecticide	11	25%	3 ounce	1.41	1.05	
Total Materials & Services						82.56	

Total listed costs for Field Operations and Materials and Services						366.98	
Interest on Operations Capital	\$ 262.41	cash expense @	5.50%	for 6.0 mo.		7.22	
Total Operating and Use Related Ownership Costs						374.20	
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Pivot (State)	\$ 6,130	per acre @	3.00%		183.90	
Real Estate Taxes		\$ 6,130	per acre @	1.35%		82.76	
Total Cost per Acre Including Overhead						660.86	
Cost per ton						98.64	
Cash Cost per ton						52.59	

11-Alfalfa, Roundup Ready®, Large and Small Square Bale, 6.8 ton Yield, Pivot Irrigated Electric

**2019 Budget 11-Alfalfa, Roundup Ready®, Large and Small Square Bale, 6.8 ton Yield
Pivot Irrigated Electric, 800 GPM 35 PSI, 16 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 Spread Fertilizer	1		1.57	0.87	0.68	0.00	2.12	0.00	5.24	
2 Swath/Condition Hay	4		8.00	5.73	9.23	0.00	13.33	0.00	36.29	
3 Turn Windrows	1		1.67	0.50	0.72	0.11	2.25	0.29	5.54	
4 Double Windrows	4		4.40	1.21	1.73	0.22	5.39	1.48	14.43	
5 Bale Large Square	4.5	ton	6.23	5.02	2.45	2.62	7.64	25.23	49.19	
6 Load Large Square		Custom ton								
7 Bale Small Square	2.3	ton	12.47	5.68	4.89	8.88	15.28	2.05	49.25	
8 Load Small Square	2.3	ton	4.53	1.30	1.96	0.65	6.11	0.94	15.49	
9 Pivot E 125' Lift	16	ai	11.11	44.59	4.68	25.82	8.20	14.17	108.57	
10 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
11 Spray Insecticide	0.25		0.25	0.08	0.09	0.16	0.27	0.20	1.05	
Total for Field Operations			51.23	65.28	26.78	39.10	61.67	45.17	289.23	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
11-52-0	Fertilizer	1	100%	80 pound	0.27	21.60	
Twine Large Square	Other	5	100%	4.53 ton	1.81	8.19	
Load Large Square Bales	Custom	6	100%	4.53 ton	2.94	13.31	
Twine Small Square	Other	7	100%	2.27 ton	2.33	5.29	
Electricity Fixed	Other	9	100%	1 acre	30.00	30.00	
Roundup WeatherMax	Herbicide	10	100%	44 ounce	0.26	11.34	
21-0-0-24S	Additive	10	100%	1.7 pound	0.35	0.60	
Mustang Maxx	Insecticide	11	25%	3 ounce	1.41	1.05	
Total Materials & Services						91.38	

Total listed costs for Field Operations and Materials and Services						380.61	
Interest on Operations Capital	\$ 273.77	cash expense @	5.50%	for 6.0 mo.		7.53	
Total Operating and Use Related Ownership Costs						388.14	
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity	Pivot (State)	\$ 6,130	per acre @	3.00%		183.90	
Real Estate Taxes		\$ 6,130	per acre @	1.35%		82.76	
Total Cost per Acre Including Overhead						674.80	
Cost per ton						99.24	
Cash Cost per ton						53.54	

12-Alfalfa, Large and Small Square Bale, 6.6 ton Yield, Pivot Irrigated Electric

2019 Budget 12-Alfalfa, Large and Small Square Bale, 6.6 ton Yield
Pivot Irrigated Electric, 800 GPM 35 PSI, 16 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 Spread Fertilizer	1		1.57	0.87	0.68	0.00	2.12	0.00	5.24	
2 Swath/Condition Hay	4		8.00	5.73	9.23	0.00	13.33	0.00	36.29	
3 Bale Large Square	4.4	ton	6.05	4.87	2.37	2.54	7.41	24.49	47.73	
4 Load Large Square	Custom	ton								
5 Bale Small Square	2.2	ton	12.10	5.51	4.75	8.62	14.83	1.99	47.80	
6 Load Small Square	2.2	ton	4.40	1.26	1.90	0.63	5.93	0.91	15.03	
7 Pivot E 125' Lift	16	ai	11.11	44.59	4.68	25.82	8.20	14.17	108.57	
8 Spray Herbicide	0.25		0.25	0.08	0.09	0.16	0.27	0.20	1.05	
9 Spray Insecticide	0.25		0.25	0.08	0.09	0.16	0.27	0.20	1.05	
Total for Field Operations			43.73	62.99	23.79	37.93	52.36	41.96	262.76	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							11-52-0
Twine Large Square	Other	3	100%	4.4 ton	1.81	7.95	
Load Large Square Bales	Custom	4	100%	4.4 ton	2.94	12.92	
Twine Small Square	Other	5	100%	2.2 ton	2.33	5.13	
Electricity Fixed	Other	7	100%	1 acre	30.00	30.00	
Velpar 75DF	Herbicide	8	25%	0.66 pound	36.00	5.94	
Mustang Maxx	Insecticide	9	25%	3 ounce	1.41	1.05	
Total Materials & Services						83.24	

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 251.68 cash expense @ 5.50% for 6.0 mo.

Total Operating and Use Related Ownership Costs

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

Real Estate Opportunity Pivot (Panhandle) \$ 2,700 per acre @ 3.00%
Real Estate Taxes \$ 2,700 per acre @ 1.35%

Total Cost per Acre Including Overhead

Cost per ton

Cash Cost per ton

346.00	
6.92	
352.92	
20.00	
81.00	
36.45	
490.37	
74.30	
44.70	

13-Alfalfa, Large Square Bale, 6.6 ton Yield, Gravity Irrigated, fed by canal

**2019 Budget 13-Alfalfa, Large Square Bale, 6.6 ton Yield
Gravity Irrigated, fed by canal, 22 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 Spread Fertilizer	1		1.57	0.87	0.68	0.00	2.12	0.00	5.24	
2 Swath/Condition Hay	4		8.00	5.73	9.23	0.00	13.33	0.00	36.29	
3 Turn Windrows	1		1.67	0.50	0.72	0.11	2.25	0.29	5.54	
4 Double Windrows	4		4.40	1.21	1.73	0.22	5.39	1.48	14.43	
5 Bale Large Square	6.6		9.08	7.31	3.56	3.81	11.12	36.74	71.62	
6 Load Large Square	Custom									
7 Corrugate	1		3.13	1.79	1.23	0.90	3.84	5.05	15.94	
8 Ditch Irrigation	22	ai	24.44						24.44	
9 Spray Herbicide	0.25		0.25	0.08	0.09	0.16	0.27	0.20	1.05	
10 Spray Insecticide	0.25		0.25	0.08	0.09	0.16	0.27	0.20	1.05	
Total for Field Operations			52.79	17.57	17.33	5.36	38.59	43.96	175.60	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							11-52-0
Twine Large Square	Other	5	100%	6.6 ton	1.81	11.92	
Load Large Square Bales	Custom	6	100%	6.6 ton	2.94	19.38	
Irrigation District O&M Charge	Other	8	100%	1 acre	30.00	30.00	
Pursuit	Herbicide	9	25%	4.5 ounce	3.75	4.22	
Crop Oil Concentrate	Additive	9	25%	1.6 pint	1.34	0.54	
UAN	Additive	9	25%	2 pint	0.19	0.10	
Mustang Maxx	Insecticide	10	25%	3 ounce	1.41	1.05	
	Crop Insurance				N/A	0.00	
Total Materials & Services						87.46	

Total listed costs for Field Operations and Materials and Services						263.06
Interest on Operations Capital \$ 180.51	cash expense @	5.50%	for 6.0 mo.			4.96
Total Operating and Use Related Ownership Costs						268.02
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00
Real Estate Opportunity	Gravity (State)	\$ 5,795	per acre @	3.00%		173.85
Real Estate Taxes		\$ 5,795	per acre @	1.35%		78.23
Total Cost per Acre Including Overhead						540.10
Cost per ton						81.83
Cash Cost per ton						39.96

14-Alfalfa, Roundup Ready®, Large Square Bale, 6.8 ton Yield, Gravity Irrigated, fed by canal

2019 Budget 14-Alfalfa, Roundup Ready®, Large Square Bale, 6.8 ton Yield
Gravity Irrigated, fed by canal, 14 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 Spread Fertilizer	1		1.57	0.87	0.68	0.00	2.12	0.00	5.24	
2 Swath/Condition Hay	4		8.00	5.73	9.23	0.00	13.33	0.00	36.29	
3 Turn Windrows	1		1.67	0.50	0.72	0.11	2.25	0.29	5.54	
4 Double Windrows	4		4.40	1.21	1.73	0.22	5.39	1.48	14.43	
5 Bale Large Square	6.8		9.35	7.53	3.67	3.93	11.46	37.85	73.79	
6 Load Large Square	Custom									
7 Corrugate	1		3.13	1.79	1.23	0.90	3.84	5.05	15.94	
8 Ditch Irrigation	14	ai	15.56						15.56	
9 Spray Herbicide	1		1.00	0.30	0.35	0.64	1.08	0.81	4.18	
10 Spray Insecticide	0.25		0.25	0.08	0.09	0.16	0.27	0.20	1.05	
Total for Field Operations			44.93	18.01	17.70	5.96	39.74	45.68	172.02	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							11-52-0
Twine Large Square	Other	5	100%	6.8 ton	1.81	12.28	
Load Large Square Bales	Custom	6	100%	6.8 ton	2.94	19.97	
Irrigation District O&M Charge	Other	8	100%	1 acre	30.00	30.00	
Roundup WeatherMax	Herbicide	9	100%	44 ounce	0.26	11.34	
21-0-0-24S	Additive	9	100%	1.7 pound	0.35	0.60	
Mustang Maxx	Insecticide	10	25%	3 ounce	1.41	1.05	
	Crop Insurance				N/A	0.00	
Total Materials & Services						96.84	

Total listed costs for Field Operations and Materials and Services						268.86
Interest on Operations Capital	\$ 183.44	cash expense @	5.50%	for 6.0 mo.		5.04
Total Operating and Use Related Ownership Costs						273.90
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00
Real Estate Opportunity	Gravity (State)	\$ 5,795	per acre @	3.00%		173.85
Real Estate Taxes		\$ 5,795	per acre @	1.35%		78.23
Total Cost per Acre Including Overhead						545.98
Cost per ton						80.29
Cash Cost per ton						39.22