

2020 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

The 2020 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>.

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:

Jessica Groskopf	Extension Educator - Agricultural Economics
Robert Harveson	Extension Entomologist
Tamra Jackson-Ziems	Plant Pathologist - Corn and Sorghum
Jim Jansen	Extension Educator - Agricultural Economics
Paul Jasa	Extension Biological Systems Engineer
Jay Parsons	Associate Professor - Agricultural Economics
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.

© 2019, The Board of Regents of the University of Nebraska on behalf of the University of Nebraska–Lincoln Extension. All rights reserved.

2020 Budget 4-Alfalfa, Small Square Bales, Conventional Tillage, Establish Spring Seed with Herbicides, 2.8 ton Yield Dryland

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.27 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.97	0.79	0.75	0.00	2.33	0.00	5.84	
2 Disk	1		2.52	1.98	0.60	1.36	5.40	1.22	13.08	
3 Field Cultivation	1		1.83	1.43	0.63	1.43	1.97	1.62	8.91	
4 Seeder/Packer	1		3.75	1.40	1.18	3.48	3.70	3.03	16.54	
5 Spray Insecticide	0.2		0.19	0.04	0.06	0.12	0.18	0.22	0.81	
6 Spray Herbicide	1		0.95	0.21	0.29	0.60	0.90	1.08	4.03	
7 Swath/Condition Hay	2		5.00	2.61	5.23	0.00	4.46	0.00	17.30	
8 Turn Windrows	0.5		1.04	0.23	0.39	0.08	1.23	0.23	3.20	
9 Bale Small Square	2.8	ton	19.25	6.40	6.63	12.51	20.71	2.89	68.39	
10 Load Small Square	2.8	ton	7.00	1.46	2.65	0.80	8.28	1.16	21.35	
Total for Field Operations			43.50	16.55	18.41	20.38	49.16	11.45	159.45	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Seeder/Packer	Rental	4	100%	1 acre	15.00	15.00	
Alfalfa w/Inoculant	Seed	4	100%	12 pound	6.00	72.00	
Mustang Maxx	Insecticide	5	20%	3 ounce	1.41	0.84	
Brox 2EC	Herbicide	6	100%	1 pint	5.00	5.00	
Pursuit	Herbicide	6	100%	3 ounce	3.75	11.25	
Twine Small Square	Other	9	100%	2.8 ton	2.33	6.53	
Total Materials & Services						133.62	

Total listed costs for Field Operations and Materials and Services						293.07	
Interest on Operations Capital	\$ 232.46	cash expense @	5.50%	for 6.0 mo.		6.39	
Total Operating and Use Related Ownership Costs						299.46	
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity [^]	Dryland (State)	\$ 3,040	per acre @	3.00%		91.20	
Real Estate Taxes		\$ 3,040	per acre @	1.35%		41.04	
Total Cost per Acre Including Overhead						451.70	

Cash Cost per ton	[^] Ownership and RE Opportunity not included in cash costs.	107.10
Cost of production per ton		161.32

2020 Budget 5-Alfalfa, Roundup Ready®, Small Square Bales, Conventional Tillage, Establish Spring Seed, 2.8 ton Yield Dryland

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.27 and Lube	Repairs		Ownership^		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.97	0.79	0.75	0.00	2.33	0.00	5.84	
2 Disk	1		2.52	1.98	0.60	1.36	5.40	1.22	13.08	
3 Field Cultivation	1		1.83	1.43	0.63	1.43	1.97	1.62	8.91	
4 Seeder/Packer	1		3.75	1.40	1.18	3.48	3.70	3.03	16.54	
5 Spray Insecticide	0.2		0.19	0.04	0.06	0.12	0.18	0.22	0.81	
6 Spray Herbicide	1		0.95	0.21	0.29	0.60	0.90	1.08	4.03	
7 Swath/Condition Hay	2		5.00	2.61	5.23	0.00	4.46	0.00	17.30	
8 Turn Windrows	0.5		1.04	0.23	0.39	0.08	1.23	0.23	3.20	
9 Bale Small Square	2.8	ton	19.25	6.40	6.63	12.51	20.71	2.89	68.39	
10 Load Small Square	2.8	ton	7.00	1.46	2.65	0.80	8.28	1.16	21.35	
Total for Field Operations			43.50	16.55	18.41	20.38	49.16	11.45	159.45	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							11-52-0
Seeder/Packer	Rental	4	100%	1 acre	15.00	15.00	
Alfalfa RR w/Inoculant	Seed	4	100%	12 pound	9.00	108.00	
Mustang Maxx	Insecticide	5	20%	3 ounce	1.41	0.84	
Roundup WeatherMax	Herbicide	6	100%	44 ounce	0.26	11.34	
21-0-0-24S	Additive	6	100%	1.70 pound	0.35	0.60	
Twine Small Square	Other	9	100%	2.80 ton	2.33	6.53	
Total Materials & Services						165.31	

Total listed costs for Field Operations and Materials and Services	324.76
Interest on Operations Capital \$ 264.15 cash expense @ 5.50% for 6.0 mo.	7.26
Total Operating and Use Related Ownership Costs	332.02

Overhead (accounting, liability insurance, vehicle cost, office expense)	20.00
Real Estate Opportunity^ Dryland (State) \$ 3,040 per acre @ 3.00%	91.20
Real Estate Taxes \$ 3,040 per acre @ 1.35%	41.04
Total Cost per Acre Including Overhead	484.26

Cash Cost per ton	<i>^Ownership and RE Opportunity not included in cash costs.</i>	118.73
Cost of production per ton		172.95

**2020 Budget 6-Alfalfa, Large Square Bales, Conventional Tillage, Establish Spring Seed with Herbicides, 3.8 ton Yield
Pivot Irrigated, 800 GPM 35 PSI, 12 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.27 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.97	0.79	0.75	0.00	2.33	0.00	5.84	
2 Disk	1		2.52	1.98	0.60	1.36	5.40	1.22	13.08	
3 Field Cultivation	1		1.83	1.43	0.63	1.43	1.97	1.62	8.91	
4 Seeder/Packer	1		3.75	1.40	1.18	3.48	3.70	3.03	16.54	
5 Spray Herbicide	1		0.95	0.21	0.29	0.60	0.90	1.08	4.03	
6 Pivot D 125' Lift	12	ai	10.42	58.13	4.12	20.75	7.81	11.39	112.62	
7 Swath/Condition Hay	2		5.00	2.61	5.23	0.00	4.46	0.00	17.30	
8 Turn Windrows	0.5		1.04	0.23	0.39	0.08	1.23	0.23	3.20	
9 Bale Large Square	3.8	ton	6.15	3.61	2.12	2.44	6.61	26.21	47.14	
10 Load Large Square	3.8	ton	5.23	1.98	1.80	0.18	5.62	0.21	15.02	
11 Spray Insecticide	0.5		0.47	0.10	0.14	0.30	0.45	0.54	2.00	
Total for Field Operations			39.33	72.47	17.25	30.62	40.48	45.53	245.68	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							11-52-0
Seeder/Packer	Rental	4	100%	1 acre	15.00	15.00	
Alfalfa w/Inoculant	Seed	4	100%	12 pound	6.00	72.00	
Brox 2EC	Herbicide	5	100%	0.5 pint	5.00	2.50	
Pursuit	Herbicide	5	100%	3 ounce	3.75	11.25	
Twine Large Square	Other	9	100%	3.80 ton	1.81	6.86	
Mustang Maxx	Insecticide	11	50%	3 ounce	1.41	2.11	
Total Materials & Services						132.72	

Total listed costs for Field Operations and Materials and Services 378.40

Interest on Operations Capital \$ 292.39 cash expense @ 5.50% for 6.0 mo. 8.04

Total Operating and Use Related Ownership Costs 386.44

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

Real Estate Opportunity[^] Pivot (State) \$ 5,970 per acre @ 3.00% 179.10

Real Estate Taxes \$ 5,970 per acre @ 1.35% 80.60

Total Cost per Acre Including Overhead 666.14

Cash Cost per ton ^{^Ownership and RE Opportunity not included in cash costs.} 105.53

Cost of production per ton 175.30

**2020 Budget 7-Alfalfa, Roundup Ready®, Large Square Bales, Conventional Tillage, Establish Spring Seed, 4 ton Yield
Pivot Irrigated, 800 GPM 35 PSI, 12 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.27 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.97	0.79	0.75	0.00	2.33	0.00	5.84	
2 Disk	1		2.52	1.98	0.60	1.36	5.40	1.22	13.08	
3 Field Cultivation	1		1.83	1.43	0.63	1.43	1.97	1.62	8.91	
4 Seeder/Packer	1		3.75	1.40	1.18	3.48	3.70	3.03	16.54	
5 Spray Herbicide	1		0.95	0.21	0.29	0.60	0.90	1.08	4.03	
6 Pivot D 125' Lift	12	ai	10.42	58.13	4.12	20.75	7.81	11.39	112.62	
7 Swath/Condition Hay	2		5.00	2.61	5.23	0.00	4.46	0.00	17.30	
8 Turn Windrows	0.5		1.04	0.23	0.39	0.08	1.23	0.23	3.20	
9 Bale Large Square	4	ton	6.47	3.80	2.23	2.57	6.96	27.59	49.62	
10 Load Large Square	4	ton	5.50	2.09	1.90	0.19	5.92	0.22	15.82	
11 Spray Insecticide	0.5		0.47	0.10	0.14	0.30	0.45	0.54	2.00	
Total for Field Operations			39.92	72.77	17.46	30.76	41.13	46.92	248.96	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							11-52-0
Seeder/Packer	Rental	4	100%	1 acre	15.00	15.00	
Alfalfa RR w/Inoculant	Seed	4	100%	12 pound	9.00	108.00	
Roundup WeatherMax	Herbicide	5	100%	44 ounce	0.26	11.34	
21-0-0-24S	Additive	5	100%	1.7 pound	0.35	0.60	
Twine Large Square	Other	9	100%	4 ton	1.81	7.22	
Mustang Maxx	Insecticide	11	50%	3 ounce	1.41	2.11	
Total Materials & Services						167.27	

Total listed costs for Field Operations and Materials and Services		416.23
Interest on Operations Capital \$ 328.18 cash expense @ 5.50% for 6.0 mo.		9.02
Total Operating and Use Related Ownership Costs		425.25

Overhead (accounting, liability insurance, vehicle cost, office expense)		20.00
Real Estate Opportunity [^] Pivot (State)	\$ 5,970 per acre @ 3.00%	179.10
Real Estate Taxes	\$ 5,970 per acre @ 1.35%	80.60
Total Cost per Acre Including Overhead		704.95

Cash Cost per ton	[^] Ownership and RE Opportunity not included in cash costs.	109.45
Cost of production per ton		176.24

**2020 Budget 8-Alfalfa, Large Round Bales, Panhandle, Conventional Tillage, Fall Seeded with Subsequent Year Production, 2.5 ton Yield
Gravity Irrigated, fed by canal, 18 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.27 and Lube	Repairs		Ownership^		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Disk	1		2.52	1.98	0.60	1.36	5.40	1.22	13.08	
2 Spread Fertilizer	1		1.97	0.79	0.75	0.00	2.33	0.00	5.84	
3 Drill	1		2.20	1.04	0.76	3.29	2.37	2.63	12.29	
4 Roll	1		2.78	1.58	1.05	0.00	3.29	0.00	8.70	
5 Spray Insecticide	0.2		0.19	0.04	0.06	0.12	0.18	0.22	0.81	
6 Corrugate	1		3.92	1.63	1.35	0.90	4.21	5.05	17.06	
7 Swath/Condition Hay	2		5.00	2.61	5.23	0.00	4.46	0.00	17.30	
8 Turn Windrows	0.5		1.04	0.23	0.39	0.08	1.23	0.23	3.20	
9 Bale Large Round	2.5	ton	5.73	1.56	1.97	2.24	6.16	2.99	20.65	
10 Move Large Round	2.5	ton	3.27	1.24	1.13	0.00	3.52	0.14	9.30	
11 Ditch Irrigation	18	ai	25.00	0.00	6.17	0.00	13.83	0.00	45.00	
12 Spray Herbicide	1		0.95	0.21	0.29	0.60	0.90	1.08	4.03	
Total for Field Operations			54.57	12.91	19.75	8.59	47.88	13.56	157.26	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
Alfalfa w/Inoculant	Seed	3	100%	12 pound	6.00	72.00
Oats	Seed	3	100%	0.5 bushel	9.00	4.50
Mustang Maxx	Insecticide	5	20%	3 ounce	1.41	0.84
Twine Large Round	Other	9	100%	2.5 ton	0.91	2.27
Irrigation District O&M Charge	Other	11	100%	1 acre	30.00	30.00
Raptor	Herbicide	12	100%	5 ounce	4.77	23.83
Crop Oil Concentrate	Additive	12	100%	1.6 pint	1.25	2.00
UAN	Additive	12	100%	2 pint	0.19	0.38
Total Materials & Services						158.82

Total listed costs for Field Operations and Materials and Services						316.08
Interest on Operations Capital \$ 254.64	cash expense @	5.50%	for 6.0 mo.			7.00
Total Operating and Use Related Ownership Costs						323.08
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00
Real Estate Opportunity^	Gravity (Panhandle)	\$ 2,245	per acre @	3.00%		67.35
Real Estate Taxes		\$ 2,245	per acre @	1.35%		30.31
Total Cost per Acre Including Overhead						440.74
Cash Cost per ton	^Ownership and RE Opportunity not included in cash costs.					124.78
Cost of production per ton						176.30

**2020 Budget 9-Alfalfa, Large Round Bales, 4.4 ton Yield
Dryland**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.27 and Lube	Repairs		Ownership^		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.97	0.79	0.75	0.00	2.33	0.00	5.84	
2 Swath/Condition Hay	4		10.00	5.22	10.45	0.00	8.91	0.00	34.58	
3 Turn Windrows	1		2.08	0.46	0.79	0.17	2.47	0.46	6.43	
4 Double Windrows	3		4.13	0.83	1.42	0.16	4.44	1.11	12.09	
5 Bale Large Round	4.4	ton	10.08	2.75	3.47	3.94	10.85	5.26	36.35	
6 Move Large Round	4.4	ton	5.76	2.19	1.99	0.00	6.20	0.25	16.39	
7 Spray Insecticide	0.25		0.24	0.05	0.07	0.15	0.22	0.27	1.00	
Total for Field Operations			34.26	12.29	18.94	4.42	35.42	7.35	112.68	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
11-52-0	Fertilizer	1	100%	50 pound	0.23	11.50
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					16.55	

Total listed costs for Field Operations and Materials and Services 129.23

Interest on Operations Capital \$ 86.46 cash expense @ 5.50% for 6.0 mo. 2.38

Total Operating and Use Related Ownership Costs 131.61

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

Real Estate Opportunity^ Dryland (State) \$ 3,040 per acre @ 3.00% 91.20

Real Estate Taxes \$ 3,040 per acre @ 1.35% 41.04

Total Cost per Acre Including Overhead 283.85

Cash Cost per ton ^Ownership and RE Opportunity not included in cash costs. 34.06

Cost of production per ton 64.51

**2020 Budget 10-Alfalfa, Large and Small Square Bales, 6.7 ton Yield
Pivot Irrigated Electric, 800 GPM 35 PSI, 16 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.27 and Lube	Repairs		Ownership^		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.97	0.79	0.75	0.00	2.33	0.00	5.84	
2 Swath/Condition Hay	4		10.00	5.22	10.45	0.00	8.91	0.00	34.58	
3 Turn Windrows	1		2.08	0.46	0.79	0.17	2.47	0.46	6.43	
4 Double Windrows	4		5.50	1.10	1.90	0.22	5.92	1.48	16.12	
5 Bale Large Square	4.5	ton	7.23	4.24	2.49	2.87	7.77	30.81	55.41	
6 Load Large Square		Custom ton								
7 Bale Small Square	2.2	ton	15.35	5.10	5.29	9.98	16.52	2.31	54.55	
8 Load Small Square	2.2	ton	5.58	1.17	2.12	0.64	6.61	0.92	17.04	
9 Pivot E 125' Lift	16	ai	13.89	45.61	4.68	27.67	8.20	15.19	115.24	
10 Spray Herbicide	0.25		0.24	0.05	0.07	0.15	0.22	0.27	1.00	
11 Spray Insecticide	0.25		0.24	0.05	0.07	0.15	0.22	0.27	1.00	
Total for Field Operations			62.08	63.79	28.61	41.85	59.17	51.71	307.21	

Materials & Services	Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate	
							11-52-0
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	1.25	0.50	
UAN	Additive	10	25%	2 pint	0.19	0.09	
Mustang Maxx	Insecticide	11	25%	3 ounce	1.41	1.05	
Total Materials & Services						79.51	

Total listed costs for Field Operations and Materials and Services						386.72
Interest on Operations Capital	\$ 275.84	cash expense @	5.50%	for 6.0 mo.		7.59
Total Operating and Use Related Ownership Costs						394.31
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00
Real Estate Opportunity^	Pivot (State)	\$ 5,970	per acre @	3.00%		179.10
Real Estate Taxes		\$ 5,970	per acre @	1.35%		80.60
Total Cost per Acre Including Overhead						674.01
Cash Cost per ton	<i>^Ownership and RE Opportunity not included in cash costs.</i>					57.32
Cost of production per ton						100.60

**2020 Budget 11-Alfalfa, Roundup Ready®, Large and Small Square Bales, 6.8 ton Yield
Pivot Irrigated Electric, 800 GPM 35 PSI, 16 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.27 and Lube	Repairs		Ownership^		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.97	0.79	0.75	0.00	2.33	0.00	5.84	
2 Swath/Condition Hay	4		10.00	5.22	10.45	0.00	8.91	0.00	34.58	
3 Turn Windrows	1		2.08	0.46	0.79	0.17	2.47	0.46	6.43	
4 Double Windrows	4		5.50	1.10	1.90	0.22	5.92	1.48	16.12	
5 Bale Large Square	4.5	ton	7.33	4.31	2.53	2.91	7.89	31.27	56.24	
6 Load Large Square		Custom ton								
7 Bale Small Square	2.3	ton	15.58	5.18	5.37	10.13	16.77	2.34	55.37	
8 Load Small Square	2.3	ton	5.67	1.18	2.15	0.65	6.71	0.94	17.30	
9 Pivot E 125' Lift	16	ai	13.89	45.61	4.68	27.67	8.20	15.19	115.24	
10 Spray Herbicide	1		0.95	0.21	0.29	0.60	0.90	1.08	4.03	
11 Spray Insecticide	0.25		0.24	0.05	0.07	0.15	0.22	0.27	1.00	
Total for Field Operations			63.21	64.11	28.98	42.50	60.32	53.03	312.15	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
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						88.18	

Total listed costs for Field Operations and Materials and Services						400.33	
Interest on Operations Capital \$ 286.98	cash expense @	5.50%	for 6.0 mo.			7.89	
Total Operating and Use Related Ownership Costs						408.22	
Overhead (accounting, liability insurance, vehicle cost, office expense)						20.00	
Real Estate Opportunity^	Pivot (State)	\$ 5,970	per acre @	3.00%		179.10	
Real Estate Taxes		\$ 5,970	per acre @	1.35%		80.60	
Total Cost per Acre Including Overhead						687.92	
Cash Cost per ton	^Ownership and RE Opportunity not included in cash costs.					58.16	
Cost of production per ton						101.16	

**2020 Budget 12-Alfalfa, Panhandle, Large and Small Square Bales, 6.6 ton Yield
Pivot Irrigated Electric, 800 GPM 35 PSI, 16 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.27 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.97	0.79	0.75	0.00	2.33	0.00	5.84	
2 Swath/Condition Hay	4		10.00	5.22	10.45	0.00	8.91	0.00	34.58	
3 Bale Large Square	4.4	ton	7.12	4.18	2.45	2.82	7.66	30.35	54.58	
4 Load Large Square		Custom ton								
5 Bale Small Square	2.2	ton	15.13	5.03	5.21	9.83	16.27	2.27	53.74	
6 Load Small Square	2.2	ton	5.50	1.15	2.08	0.63	6.51	0.91	16.78	
7 Pivot E 125' Lift	16	ai	13.89	45.61	4.68	27.67	8.20	15.19	115.24	
8 Spray Herbicide	0.25		0.24	0.05	0.07	0.15	0.22	0.27	1.00	
9 Spray Insecticide	0.25		0.24	0.05	0.07	0.15	0.22	0.27	1.00	
Total for Field Operations			54.09	62.08	25.76	41.25	50.32	49.26	282.76	

Materials & Services		Operation Index	Percent Acres Applied	Application Rate Unit	Applied Price	Total	Your Estimate
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						80.24	

Total listed costs for Field Operations and Materials and Services

Interest on Operations Capital \$ 263.42	cash expense @	5.50%	for 6.0 mo.	363.00
				7.24
Total Operating and Use Related Ownership Costs				370.24

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

Real Estate Opportunity [^]	Pivot (Panhandle)	\$ 2,565	per acre @	3.00%	76.95
Real Estate Taxes		\$ 2,565	per acre @	1.35%	34.63
Total Cost per Acre Including Overhead					501.82

Cash Cost per ton

Cost of production per ton

[^]Ownership and RE Opportunity not included in cash costs.

49.29
76.03

**2020 Budget 13-Alfalfa, Large Square Bales, 6.6 ton Yield
Gravity Irrigated, fed by canal, 22 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.27 and Lube	Repairs		Ownership [^]		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.97	0.79	0.75	0.00	2.33	0.00	5.84	
2 Swath/Condition Hay	4		10.00	5.22	10.45	0.00	8.91	0.00	34.58	
3 Turn Windrows	1		2.08	0.46	0.79	0.17	2.47	0.46	6.43	
4 Double Windrows	4		5.50	1.10	1.90	0.22	5.92	1.48	16.12	
5 Bale Large Square	6.6		10.68	6.27	3.68	4.24	11.49	45.52	81.88	
6 Load Large Square	Custom									
7 Corrugate	1		3.92	1.63	1.35	0.90	4.21	5.05	17.06	
8 Ditch Irrigation	22	ai	30.56						30.56	
9 Spray Herbicide	0.25		0.24	0.05	0.07	0.15	0.22	0.27	1.00	
10 Spray Insecticide	0.25		0.24	0.05	0.07	0.15	0.22	0.27	1.00	
Total for Field Operations			65.19	15.57	19.06	5.83	35.77	53.05	194.47	

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	1.25	0.50	
UAN	Additive	9	25%	2 pint	0.19	0.09	
Mustang Maxx	Insecticide	10	25%	3 ounce	1.41	1.05	
	Crop Insurance				N/A	0.00	
Total Materials & Services						84.41	

Total listed costs for Field Operations and Materials and Services 278.88

Interest on Operations Capital \$ 190.06 cash expense @ 5.50% for 6.0 mo.

5.23

Total Operating and Use Related Ownership Costs 284.11

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

Real Estate Opportunity[^] Gravity (State) \$ 5,690 per acre @ 3.00% 170.70

Real Estate Taxes \$ 5,690 per acre @ 1.35% 76.82

Total Cost per Acre Including Overhead 551.63

Cash Cost per ton ^{^Ownership and RE Opportunity not included in cash costs.} 44.26

Cost of production per ton 83.58

**2020 Budget 14-Alfalfa, Roundup Ready®, Large Square Bales, 6.8 ton Yield
Gravity Irrigated, fed by canal, 14 acre/inches**

Field Operations	Times or Qty	Unit	Labor @ \$25.00 /Hr	Fuel @ \$2.27 and Lube	Repairs		Ownership^		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1 Spread Fertilizer	1		1.97	0.79	0.75	0.00	2.33	0.00	5.84	
2 Swath/Condition Hay	4		10.00	5.22	10.45	0.00	8.91	0.00	34.58	
3 Turn Windrows	1		2.08	0.46	0.79	0.17	2.47	0.46	6.43	
4 Double Windrows	4		5.50	1.10	1.90	0.22	5.92	1.48	16.12	
5 Bale Large Square	6.8		11.00	6.46	3.79	4.36	11.83	46.90	84.34	
6 Load Large Square	Custom									
7 Corrugate	1		3.92	1.63	1.35	0.90	4.21	5.05	17.06	
8 Ditch Irrigation	14	ai	19.44						19.44	
9 Spray Herbicide	1		0.95	0.21	0.29	0.60	0.90	1.08	4.03	
10 Spray Insecticide	0.25		0.24	0.05	0.07	0.15	0.22	0.27	1.00	
Total for Field Operations			55.10	15.92	19.39	6.40	36.79	55.24	188.84	

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						93.64	

Total listed costs for Field Operations and Materials and Services		282.48
Interest on Operations Capital \$ 190.45 cash expense @ 5.50% for 6.0 mo.		5.24
Total Operating and Use Related Ownership Costs		287.72

Overhead (accounting, liability insurance, vehicle cost, office expense)		20.00
Real Estate Opportunity^ Gravity (State)	\$ 5,690 per acre @ 3.00%	170.70
Real Estate Taxes	\$ 5,690 per acre @ 1.35%	76.82
Total Cost per Acre Including Overhead		555.24

Cash Cost per ton	<i>^Ownership and RE Opportunity not included in cash costs.</i>	43.02
Cost of production per ton		81.65