

Crop Budgets

Nebraska – 2011

Edited by

Robert N. Klein, Western Nebraska Crops Specialist
Roger K. Wilson, Farm Management/Enterprise Budget Analyst

This contains information on how the *2011 Nebraska Crop Production Budgets* (EC872) were prepared and tables of input costs used to develop them.

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**2011 Budget 1. Alfalfa, Fall Establishment
Rainfed**

	Field Operations	Times or Qty	Labor @ \$12/Hr	Fuel @ \$3 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1	Spread, Fertilizer	1	0.94	1.05	0.19	0.00	1.08	0.00	3.26	
2	Disc	1	1.21	2.62	0.13	1.29	2.78	1.26	9.29	
3	Harrow	1	0.71	0.38	0.13	0.19	0.74	0.85	3.00	
4	Harrow	1	0.71	0.38	0.13	0.19	0.74	0.85	3.00	
5	Roll	1	1.33	2.09	0.28	0.00	1.52	0.00	5.22	
6	Drill	1	1.80	2.35	0.34	1.80	1.86	1.44	9.59	
7	Spray	1	0.60	0.41	0.11	0.21	0.62	0.25	2.20	
8	Spray	0.5	0.30	0.21	0.06	0.11	0.31	0.12	1.11	
Total for Field Operations			\$7.60	\$9.49	\$1.37	\$3.79	\$9.65	\$4.77	\$36.67	
	Materials and Services		Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate	
					Rate	Unit				
	11-52-0	Fertilizer	1	100%	100	pounds	0.38	38.00		
	Alfalfa w/Inoculant	Seed	6	100%	12	pounds	5.00	60.00		
	Pursuit	Herbicide	7	100%	4	ounces	5.39	21.56		
	Crop Oil Concentrate	Herbicide	7	100%	2	pints	1.13	2.26		
	*Lorsban 4 E	Insecticide	8	50%	1	pint	5.75	2.88		
Total Materials and Services								\$124.70		
*Insecticide for potato leafhoppers.										
Total Listed Costs for Field Operations and Materials and Services									161.37	
Interest on Operations Capital \$146.95 cash expense @ 8.00% for 6 months									5.88	
Total Operating and Use-Related Ownership Costs									\$167.25	
Overhead (accounting, liability insurance, vehicle cost, office expense)									5.00	
Real Estate Opportunity		Rainfed (State)	\$1,850 per acre @ 4.00%						74.00	
Real Estate Taxes			\$1,850 per acre @ 1.00%						18.50	
Total Cost per Acre Including Overhead									\$264.75	

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**2011 Budget 2. Alfalfa, Spring-Seeded with Herbicides (2.5 ton)
Rainfed**

	Field Operations	Times or Qty	Labor @ \$12/Hr	Fuel @ \$3 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1	Spread, Fertilizer	1	0.94	1.05	0.19	0.00	1.08	0.00	3.26	
2	Disc	1	1.21	2.62	0.13	1.29	2.78	1.26	9.29	
3	Field Cultivation	1	0.62	1.33	0.07	0.41	1.43	0.83	4.69	
4	Seeder/Packer	1	2.69	3.02	0.28	1.03	6.19	4.45	17.66	
5	Spray	0.5	0.30	0.21	0.06	0.11	0.31	0.12	1.11	
6	Spray	1	0.60	0.41	0.11	0.21	0.62	0.25	2.20	
7	Swath/Cond Hay	2	2.98	4.29	4.28	0.00	3.11	0.00	14.66	
8	Turn Windrows	0.5	0.53	0.32	0.11	0.09	0.60	1.28	2.93	
9	Sm Sq Bale	2.5 ton	7.65	4.19	1.58	9.75	8.72	2.36	34.25	
10	Stack Sm Sq	2.5 ton	9.58	4.85	1.98	0.00	10.92	1.10	28.43	
Total for Field Operations			\$27.10	\$22.29	\$8.79	\$12.89	\$35.76	\$11.65	\$118.48	
	Materials and Services		Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate	
					Rate	Unit				
	11-52-0	Fertilizer	1	100%	100	pounds	0.38	38.00		
	Seeder-Packer	Rental	4	100%	1	acre	10.00	10.00		
	Alfalfa w/Inoculant	Seed	4	100%	12	pounds	5.00	60.00		
	*Lorsban 4 E	Insecticide	5	50%	1	pint	5.75	2.88		
	Pursuit	Herbicide	6	100%	4	ounces	5.39	21.56		
	Crop Oil Concentrate	Herbicide	6	100%	2	pints	1.13	2.26		
	Twine Sm Sq	Other	9	100%	2.5	tons	5.16	12.90		
Total Materials and Services								\$147.60		
*Insecticide for potato leafhoppers and alfalfa weevils.										
Total Listed Costs for Field Operations and Materials and Services								\$266.08		
Interest on Operating Capital \$218.67 cash expense @ 8.00% for 6 months								\$8.75		
Total Operating and Use-Related Ownership Costs								\$274.83		
Overhead (accounting, liability insurance, vehicle cost, office expense)								5.00		
Real Estate Opportunity		Rainfed (State)	\$1,850 per acre @ 4.00%					74.00		
Real Estate Taxes			\$1,850 per acre @ 1.00%					18.50		
Total Cost per Acre Including Overhead								\$372.93		
Cost per Ton								\$148.93		
Cash Cost per Ton								\$98.37		

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**2011 Budget 3. Alfalfa, Spring-Seeded with Herbicides (3.3 ton)
Pivot Irrigated, 800 GPM 35 PSI Year, 12 Acre-inches**

	Field Operations	Times or Qty	Labor @ \$12/Hr	Fuel @ \$3 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1	Spread, Fertilizer	1	0.94	1.05	0.19	0.00	1.08	0.00	3.26	
2	Disc	1	1.21	2.62	0.13	1.29	2.78	1.26	9.29	
3	Field Cultivation	1	0.62	1.33	0.07	0.41	1.43	0.83	4.69	
4	Seeder/Packer	1	2.69	3.02	0.28	1.03	6.19	4.45	17.66	
5	Spray	0.5	0.30	0.21	0.06	0.11	0.31	0.12	1.11	
6	Spray	1	0.60	0.41	0.11	0.21	0.62	0.25	2.20	
7	PivotD 125' Lift	12 AI	5.00	76.82	3.92	13.83	10.79	8.27	118.63	
8	Swath/Cond Hay	2	2.98	4.29	4.28	0.00	3.11	0.00	14.66	
9	Turn Windrows	0.5	0.53	0.32	0.11	0.09	0.60	1.28	2.93	
10	Lg Sq Bale	3.3 ton	2.71	4.38	0.29	2.99	6.24	6.06	22.67	
11	Load Lg Sq	3.3 ton	4.84	4.87	0.51	0.00	11.14	0.60	21.96	
12	Spray	0.5	0.30	0.21	0.06	0.11	0.31	0.12	1.11	
Total for Field Operations			\$22.72	\$99.53	\$10.01	\$20.07	\$44.60	\$23.24	\$220.17	
	Materials and Services		Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate	
					Rate	Unit				
	11-52-0	Fertilizer	1	100%	100	pounds	0.38	38.00		
	Seeder-Packer	Rental	4	100%	1	acre	10.00	10.00		
	Alfalfa w/Inoculant	Seed	4	100%	12	pounds	4.20	60.00		
	*Lorsban 4 E	Insecticide	5	50%	1	pint	5.25	2.88		
	Pursuit	Herbicide	6	100%	4	ounces	5.16	21.56		
	Crop Oil Concentrate	Herbicide	6	100%	2	pints	1.13	2.26		
	Twine Lg Sq	Other	10	100%	3.3	ton	0.45	2.51		
	Lorsban 4 E	Insecticide	12	100%	1	pint	5.25	5.75		
Total Materials and Services								\$142.96		
*Insecticide for potato leafhoppers.										
Total Listed Costs for Field Operations and Materials and Services									\$363.13	
Interest on Operating Capital \$295.29 cash expense @ 8.00% for 6 months									\$11.81	
Total Operating and Use-Related Ownership Costs									\$374.94	
Overhead (accounting, liability insurance, vehicle cost, office expense)									5.00	
Real Estate Opportunity		Pivot (State)	\$4,343 per acre @ 4.00%						\$173.72	
Real Estate Taxes			\$4,343 per acre @ 1.00%						\$43.43	
Total Cost per Acre Including Overhead									\$597.09	
Cost per Ton									\$180.94	
Cash Cost per Ton									\$106.22	

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**2011 Budget 4. Alfalfa, Established with Oats (2.25 tons)
Gravity Irrigated, 18 Acre-inches**

	<i>Field Operations</i>	<i>Times or Qty</i>	<i>Labor @ \$12/Hr</i>	<i>Fuel @ \$3 and Lube</i>	<i>Repairs</i>		<i>Ownership</i>		<i>Total</i>	<i>Your Estimate</i>
					<i>Power</i>	<i>Imp.</i>	<i>Power</i>	<i>Imp.</i>		
1	Disc	1	1.21	2.62	0.13	1.29	2.78	1.26	9.29	
2	Spread, Fertilizer	1	0.94	1.05	0.19	0.00	1.08	0.00	3.26	
3	Roll	1	1.33	2.09	0.28	0.00	1.52	0.00	5.22	
4	Drill	1	1.80	2.35	0.34	1.80	1.86	1.44	9.59	
5	Spray	0.5	0.30	0.21	0.06	0.11	0.31	0.12	1.11	
6	Corrugate	1	1.88	2.16	0.35	0.91	1.95	5.50	12.75	
7	Swath/Cond Hay	2	2.98	4.29	4.28	0.00	3.11	0.00	14.66	
8	Turn Windrows	0.5	0.53	0.32	0.11	0.09	0.60	1.28	2.93	
9	Lg Rd Bale	2.25 ton	2.23	1.68	0.42	2.20	2.31	2.58	11.42	
10	Move Lg Rd	2.25 ton	2.45	2.55	0.46	0.00	2.54	0.99	8.99	
11	Gravity Irrigation	18 AI	35.00						35.00	
Total for Field Operations			\$50.65	\$19.32	\$6.62	\$6.40	\$18.06	\$13.17	\$114.22	
	<i>Materials and Services</i>		<i>Operation Index</i>	<i>Percent Acres Applied</i>	<i>Application</i>		<i>Applied Price</i>	<i>Total</i>	<i>Your Estimate</i>	
					<i>Rate</i>	<i>Unit</i>				
	11-52-0	Fertilizer	2	100%	100	pounds	0.38	38.00		
	Alfalfa w/Inoculant	Seed	4	100%	12	pounds	5.00	60.00		
	Oats	Seed	4	100%	0.5	bushel	8.00	4.00		
	*Lorsban 4 E	Insecticide	5	50%	1	pint	5.75	2.88		
	Twine Lg Rd	Other	9	100%	2.25	tons	0.99	2.22		
	Water Charge	Other	11	100%	1	acre	40.00	40.00		
Total Materials and Services								\$147.10		
*Insecticide for potato leafhoppers.										
Total Listed Costs for Field Operations and Materials and Services									\$261.32	
Interest on Operating Capital \$230.09 cash expense @ 8.00% for 6 months									\$9.20	
Total Operating and Use-Related Ownership Costs									\$270.52	
Overhead (accounting, liability insurance, vehicle cost, office expense)									5.00	
Real Estate Opportunity	Gravity (Panhandle)	\$1,980 per acre @ 4.00%						\$79.20		
Real Estate Taxes		\$1,980 per acre @ 1.00%						\$19.80		
Total Cost per Acre Including Overhead									\$374.52	
Cost per Ton									\$166.45	
Cash Cost per Ton									\$115.15	

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**2011 Budget 5. Alfalfa, Large Round Bales (4.4 tons)
Rainfed**

	<i>Field Operations</i>	<i>Times or Qty</i>	<i>Labor @ \$12/Hr</i>	<i>Fuel @ \$3 and Lube</i>	<i>Repairs</i>		<i>Ownership</i>		<i>Total</i>	<i>Your Estimate</i>
					<i>Power</i>	<i>Imp.</i>	<i>Power</i>	<i>Imp.</i>		
1	Spread, Fertilizer	1	0.94	1.05	0.19	0.00	1.08	0.00	3.26	
2	Swath/Cond Hay	4	5.96	8.57	8.55	0.00	6.21	0.00	29.29	
3	Turn Windrows	1	1.05	0.63	0.22	0.17	1.20	2.57	5.84	
4	Double Windrows	3	3.20	1.76	0.60	0.19	3.31	8.63	17.69	
5	Lg Rd Bale	4.4 ton	4.36	3.28	0.82	4.31	4.52	5.04	22.33	
6	Move Lg Rd	4.4 ton	4.80	4.98	0.90	0.00	4.97	1.93	17.58	
7	Spray	0.25	0.15	0.10	0.03	0.05	0.16	0.06	0.55	
Total for Field Operations			\$20.46	\$20.37	\$11.31	\$4.72	\$21.45	\$18.23	\$96.54	
	<i>Materials and Services</i>		<i>Operation Index</i>	<i>Percent Acres Applied</i>	<i>Application</i>		<i>Applied Price</i>	<i>Total</i>	<i>Your Estimate</i>	
					<i>Rate</i>	<i>Unit</i>				
	11-52-0	Fertilizer	1	100%	75	pounds	0.38	28.50		
	Twine Lg Rd	Other	5	100%	4.4	ton	0.99	4.35		
	*Mustang Max	Insecticide	7	25%	3	ounces	1.89	1.35		
Total Materials and Services								\$34.20		
*Insecticide for cutworms, grasshoppers, aphids, etc.										
Total Listed Costs for Field Operations and Materials and Services								\$130.74		
Interest on Operating Capital \$91.06 cash expense @ 8.00% for 6 months								\$3.64		
Total Operating and Use-Related Ownership Costs								\$134.38		
Overhead (accounting, liability insurance, vehicle cost, office expense)								5.00		
Real Estate Opportunity	Rainfed (State)	\$1,850 per acre @ 4.00%					\$74.00			
Real Estate Taxes		\$1,850 per acre @ 1.00%					\$18.50			
Total Cost per Acre Including Overhead								\$231.88		
Cost per Ton								\$52.70		
Cash Cost per Ton								\$25.73		

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**2011 Budget 6. Alfalfa, Large and Small Bales (6.6 tons)
Pivot Irrigated, 800 GPM 35 PSI, 16 Acre-inches**

	Field Operations	Times or Qty	Labor @ \$12/Hr	Fuel @ \$3 and Lube	Repairs		Ownership		Total	Your Estimate
					Power	Imp.	Power	Imp.		
1	Spread, Fertilizer	1	0.94	1.05	0.19	0.00	1.08	0.00	3.26	
2	Swath/Cond Hay	5	7.45	10.71	10.69	0.00	7.77	0.00	36.62	
3	Turn Windrows	1	1.05	0.63	0.22	0.17	1.20	2.57	5.84	
4	Double Windrows	4	4.26	2.35	0.80	0.26	4.41	11.51	23.59	
5	Lg Sq Bale	4.4 ton	3.61	5.84	0.38	3.99	8.31	8.09	30.22	
6	Load Lg Sq	4.4 ton	6.45	6.50	0.68	0.00	14.85	0.81	29.29	
7	Sm Sq Bale	2.2 ton	6.73	3.69	1.39	8.58	7.67	2.08	30.14	
8	Stack Sm Sq	2.2 ton	8.43	4.26	1.74	0.00	9.61	0.97	25.01	
9	PivotE 125' Lift	16 AI	6.67	37.37	6.25	18.44	4.20	11.03	83.96	
10	Spray	0.25	0.15	0.10	0.03	0.05	0.16	0.06	0.55	
11	Spray	0.25	0.15	0.10	0.03	0.05	0.16	0.06	0.55	
Total for Field Operations			\$45.89	\$72.60	\$22.40	\$31.54	\$59.42	\$37.18	\$269.03	
	Materials and Services		Operation Index	Percent Acres Applied	Application		Applied Price	Total	Your Estimate	
					Rate	Unit				
	11-52-0	Fertilizer	1	100%	75	pounds	0.38	28.50		
	Twine Lg Sq	Other	5	67%	4.4	tons	0.76	2.23		
	Twine Sm Sq	Other	7	33%	22	tons	5.16	3.78		
	*Elec Connect Fees	Other	9	100%	1	acre	3.65	3.65		
	Pursuit	Herbicide	10	25%	4.5	ounces	5.39	6.06		
	Crop Oil Concentrate	Herbicide	10	25%	2	pints	1.13	0.57		
	**Mustang Max EC	Insecticide	11	25%	3	ounces	1.80	1.35		
Total Materials and Services								\$46.14		
*Electrical connection fee 6 months @ \$60/mo., 133 acres **Insecticide for cutworms, grasshoppers, aphids, etc.										
Total Listed Costs for Field Operations and Materials and Services									\$315.17	
Interest on Operating Capital \$218.57 cash expense @ 8.00% for 6 months									\$8.74	
Total Operating and Use-Related Ownership Costs									\$323.91	
Overhead (accounting, liability insurance, vehicle cost, office expense)									5.00	
Real Estate Opportunity		Pivot (State)	\$4,343 per acre @ 4.00%						\$173.72	
Real Estate Taxes			\$4,343 per acre @ 1.00%						\$43.43	
Total Cost per Acre Including Overhead									\$546.06	
Cost per Ton									\$82.74	
Cash Cost per Ton									\$41.02	

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**2011 Budget 7. Alfalfa, Large Square Bales (6.6 tons)
Gravity Irrigated, 22 Acre-inches**

	<i>Field Operations</i>	<i>Times or Qty</i>	<i>Labor @ \$12/Hr</i>	<i>Fuel @ \$3 and Lube</i>	<i>Repairs</i>		<i>Ownership</i>		<i>Total</i>	<i>Your Estimate</i>
					<i>Power</i>	<i>Imp.</i>	<i>Power</i>	<i>Imp.</i>		
1	Spread, Fertilizer	1	0.94	1.05	0.19	0.00	1.08	0.00	3.26	
2	Swath/Cond Hay	5	7.45	10.71	10.69	0.00	7.77	0.00	36.62	
3	Turn Windrows	1	1.05	0.63	0.22	0.17	1.20	2.57	5.84	
4	Double Windrows	4	4.26	2.35	0.80	0.26	4.41	11.51	23.59	
5	Lg Sq Bale	Custom								
6	Load Lg Sq	6.6 ton	9.68	9.74	1.03	0.00	22.27	1.21	43.93	
7	Corrugate	1	1.88	2.16	0.35	0.91	1.95	5.50	12.75	
8	Gravity Irrigation	22 AI	42.78						42.78	
9	Spray	0.25	0.15	0.10	0.03	0.05	0.16	0.06	0.55	
10	Spray	0.25	0.15	0.10	0.03	0.05	0.16	0.06	0.55	
Total for Field Operations			\$68.34	\$26.84	\$13.34	\$1.44	\$39.00	\$20.91	\$169.87	
	<i>Materials and Services</i>		<i>Operation Index</i>	<i>Percent Acres Applied</i>	<i>Application</i>		<i>Applied Price</i>	<i>Total</i>	<i>Your Estimate</i>	
	11-52-0	Fertilizer	1	100%	75	pounds	0.38	28.50		
	Bale Lg Sq 1200 lb	Custom	5	100%	66	tons	15.82	104.42		
	Water Charge	Other	8	100%	1	acre	40.00	40.00		
	Pursuit	Herbicide	9	25%	4.5	ounces	5.39	6.06		
	Crop Oil Concentrate	Herbicide	9	25%	2	pints	1.13	0.57		
	*Mustang Max EC	Insecticide	10	25%	3	ounces	1.80	1.35		
Total Materials and Services								\$180.90		
*Insecticide for cutworms, grasshoppers, aphids, etc.										
Total Listed Costs for Field Operations and Materials and Services									\$350.77	
Interest on Operating Capital \$290.86 cash expense @ 8.00% for 6 months									\$11.63	
Total Operating and Use-Related Ownership Costs									\$362.40	
Overhead (accounting, liability insurance, vehicle cost, office expense)									5.00	
Real Estate Opportunity		Gravity (State)	\$4,074 per acre @ 4.00%						\$162.96	
Real Estate Taxes			\$4,074 per acre @ 1.00%						\$40.74	
Total Cost per Acre Including Overhead									\$571.10	
Cost per Ton									\$86.53	
Cash Cost per Ton									\$52.00	