

NEBRASKA CROP BUDGETS 2009

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from 2006 Nebraska Crop Budgets

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Crop Budgets

Nebraska - 2009

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2009 Crop Budgeting Procedures

A list of representative field operations and materials is provided as a reminder of items typically involved in producing the crop. The budgets are presented in a worksheet format with a "Your Estimate" column for recording modifications in costs.

Labor costs for each operation were calculated from machinery accomplishment rates and adjusted for additional time required for getting machinery ready, adjusting machinery, and handling fertilizer and other supplies. Some operations are budgeted to cover completion multiple times, for example, swathing the several cuttings of hay. The labor and equipment costs shown are the estimated costs for completing the operation the number of times indicated in the "Times or Qty" column. If the operation is completed on only part of the acres or part of the time, the "Times or Qty" is usually shown as a percent. Where the operation involves a unit other than acres, for example tons or AI (acre inches), the budgeted costs are for the total quantity indicated in the "Times or Qty" column.

Labor is budgeted at \$12 per hour, diesel fuel at \$4 per gallon, and electricity at \$0.072 per KWH. These prices were selected to make adjustments in labor and energy cost easier.

Estimating labor and equipment costs requires assumptions about the size of the equipment.

Costing factors, based on information in the *Agricultural Engineer's Yearbook*, specify repair rates and trade-in values as a proportion of list prices. Representative discounts from list were used to determine purchase costs. The amount each machine was used annually and the years-to-trade then determines hourly repair costs and average annual depreciation and investment. The resulting machinery cost estimates are averages over the years of use.

Irrigation costs were calculated using engineering performance standards and typical water application rates which will depend on the rainfall area. Power costs for irrigation refer to the pump and power unit and implement costs are for the delivery system (pipe or pivot). Depreciation and interest for the well are budgeted with land costs.

Materials and services may also be applied on part of the acres, for example, 20 percent of the acres in that year, or part of the time, for example, one year in five. If less than 100 percent of the acres are treated, the percent acres is shown in the "Acres" column under the Materials and Service Section. The operation number in the Materials and Services section indicates the field operation in the Field Operations section. The cost for each material/service is computed by multiplying the percentage of acres times the quantity/acre times the price/unit.

Note: All prices used in the budgets are prices obtained in August of 2008.

A worksheet is included on page 4 to calculate interest, overhead, management, crop insurance, machinery insurance, and land costs. Information is also included on pages 5-6 to convert energy costs and to convert irrigation costs for varying lifts and pressures.

Prices Used for 2009 Crop Budgets

Item		Item	
Custom Operation Rates		Pursuit DG	5.25/oz
Aerial spray	\$7.00/ac	Pursuit Plus	8.25/pt
Chop, haul, pack	6.50/ton	Select Max	1.09/oz
Dry 4 points removed	0.30/bu	Spartan 7F DF	4.00/oz
Haul beets	3.00/ton	Spirit	14.00/oz
Haul grain bu	0.15/bu	Insecticides	
Haul grain cwt (dry beans)	0.20/cwt	Capture 2 EC	\$2.26/oz
Haul grain (millet)	0.25/cwt	Lorsban 15 G	2.10/lb
Haul grain (sunflower)	0.25/cwt	Mustang Max	2.03/oz
Haul & apply manure	2.00/ton	Regent 4 SC	5.60/oz
Spray	5.50/ac	Warrior T	2.81/oz
Fertilizers		Other	
28-0-0	\$0.82/lb N	Bale Lg Sq 1200 lb	\$10.00/bale
10-34-0	6.84/gal	Electrical connect fees	3.25/ac
10-34-0-1z	7.19/gal	Electricity fence/water	2.00/ac
11-52-0	0.65/lb	Fence/water repairs	2.00/ac
46-0-0	0.90/lb N	Move cattle	12.00/hr
82-0-0	0.67/lb N	Twine Lg Bl	0.59/bale
Uncomposted manure	6.00/ton	Twine Lg Rd	0.70/bale
Fungicides		Twine Lg Sq	0.45/bale
Headline	\$2.33/oz	Twine Sm Sq	0.14/bale
Tilt	3.13/oz	Water charge	35.00/ac
Herbicides		Weeding/thinning	36.00/ac
2-4,D amine	\$1.90/pt	Rental	
2,4-D ester 4#	2.25/pt	Grass drill	\$7.00/ac
21-0-0-26s	0.53/lb	Seeder-packer	9.00/ac
Spray grade ammonium sulfate		Seed	
Aim	7.00/oz	Alfalfa w/inoculant	\$4.00/lb
Ally Extra	10.00/oz	Corn	175.00/bag
AAtrex 4L	4.75/qt	Corn Bt ECB	225.00/bag
Authority	2.35/oz	Corn Bt ECB&RW	225.00/bag
Balance Pro	10.00/oz	Corn RR ECB&RW	250.00/bag
Bicep II Magnum	11.50/qt	Corn triple stack	250.00/bag
Crop oil concentrate	1.13/pt	Edible beans	50.00/ac
Dicamba	0.60/oz	Grass	3.25/lb
Dual II Magnum	16.63/pt	Millet	0.60/lb
Exceed	12.00/oz	Oats (alone)	9.60/bu
Expert	10.50/qt	Oats (with alfalfa)	9.00/bu
Glyphosate w/Surf	0.35/oz	RR soybeans	43.00/bag
Gramoxone Inteon	4.75/pt	Sorghum safened/seed	3.20/lb
Landmaster BW	0.17/oz	Sorghum sudan	0.65/lb
NIS	0.20/oz	Sugarbeets RR Poncho	130.00/ac
Peak	17.00/oz	Sunflower	3.90/lb
Prowl H ₂ O	4.75/pt	Wheat	0.20/lb
Prowl H ₂ O	0.30/oz	Wheat (certified)	0.30/lb
Pursuit	5.25/oz		

Worksheet to Calculate Costs Other Than Operating and Use-Related Depreciation

CROP: _____	Per Acre
Interest on Operating Capital \$ _____ @ _____ % _____ Months	\$ _____
Overhead including accounting, liability insurance, vehicle cost, office expense	\$ _____
Management including scouting and crop insurance	\$ _____
Machinery taxes, housing, insurance and interest	\$ _____
Land real estate taxes and interest (or cash rent or other arrangements)	\$ _____
Total	\$ _____
_____ Total/Acre _____ Bushel/Acre _____ Cost/Bushel	

CROP: _____	Per Acre
Interest on Operating Capital \$ _____ @ _____ % _____ Months	\$ _____
Overhead including accounting, liability insurance, vehicle cost, office expense	\$ _____
Management including scouting and crop insurance	\$ _____
Machinery taxes, housing, insurance and interest	\$ _____
Land real estate taxes and interest (or cash rent or other arrangements)	\$ _____
Total	\$ _____
_____ Total/Acre _____ Bushel/Acre _____ Cost/Bushel	

CROP: _____	Per Acre
Interest on Operating Capital \$ _____ @ _____ % _____ Months	\$ _____
Overhead including accounting, liability insurance, vehicle cost, office expense	\$ _____
Management including scouting and crop insurance	\$ _____
Machinery taxes, housing, insurance and interest	\$ _____
Land real estate taxes and interest (or cash rent or other arrangements)	\$ _____
Total	\$ _____
_____ Total/Acre _____ Bushel/Acre _____ Cost/Bushel	

Converting Energy Numbers in Budgets

If your energy source is different from that used in the 2009 crop budgets, use *Table 1*, developed by Extension Irrigation Engineer Derrel Martin, to convert from diesel to other energy sources.

For example, to convert diesel in gallons to kilowatt-hours electricity, the multiplier is 14.12. If electricity is \$0.072 kilowatt, the calculation would be $14.12 \times 0.072 = \$1.02$. The 2009 crop budgets use \$4/gallon diesel, but if you use electricity, the cost would be about 25 percent of that cost. With electricity also consider that there are connect charges and that to get the best rates, you'll need to sign up for load management.

Table 1. Conversion of diesel to electricity, propane, gasoline, and natural gas. (Source: *Estimating the Saving From Improving Pumping Plant Performance* by Darrel Martin).

Energy Source	Units	Multiplier
Electricity	Kilowatt-hours	14.12
Propane	Gallons	1.814
Gasoline	Gallons	1.443
Natural Gas	1000 cubic feet	0.2026

Diesel Fuel Conversion for Center Pivots

The 2009 crop production budgets with center pivot irrigation were developed with a pumping lift of 125 feet and 35 psi pressure to determine the amount of diesel fuel. *Table 2* was developed by Derrel Martin to determine the amount of diesel fuel for various pumping lifts and various pressures to pump an acre inch of water.

For example, the amount of diesel required to pump an acre inch of water with 125 feet of lift at 35 psi is 1.88 gallons with a pump performance rating of 100 percent. If the producer has a lift of 300 feet and a pressure of 50 psi the diesel fuel

required at a performance rating of 100 percent is 3.79 gallons per acre inch. If the rating on the producer's pump is 80 percent, the diesel fuel required will be 4.74 gallons per acre inch of water.

The producer then could calculate the additional cost since the diesel fuel required is now 4.74 gallons per acre inch vs 1.88 gallons per acre inch or 2.86 gallons more per acre inch. If a crop budget requires 9 inches, the additional diesel fuel would be $9 \text{ inches} \times 2.86 \text{ gallons} = 25.74 \text{ gallons}$ of diesel at \$4.00/gallon. The producer's additional cost would be \$102.96/acre.

Table 2. Table for adjusting the amount of diesel fuel required for center pivots for lifts and pressures other than the 125 feet of lift and 35 psi used in the budgets. Gallons of diesel fuel required to pump an acre inch at pump performance ratings of 100 percent*. (From *Estimating the Savings From Improving Pumping Plant Performance* by Darrel Martin).

Lift	Pressure at Pump, psi							
Feet	10	20	30	35	40	50	60	80
0	0.21	0.42	0.63	0.74	0.84	1.05	1.26	1.69
25	0.44	0.65	0.86	0.97	1.07	1.28	1.49	1.91
50	0.67	0.88	1.09	1.20	1.30	1.51	1.72	2.14
75	0.89	1.11	1.32	1.43	1.53	1.74	1.95	2.37
100	1.12	1.33	1.54	1.65	1.75	1.97	2.18	2.60
125	1.35	1.56	1.77	1.88	1.98	2.19	2.40	2.83
150	1.58	1.79	2.00	2.11	2.21	2.42	2.63	3.05
200	2.03	2.25	2.46	2.57	2.67	2.88	3.09	3.51
250	2.49	2.70	2.91	3.02	3.12	3.33	3.54	3.97
300	2.95	3.16	3.37	3.48	3.58	3.79	4.00	4.42
350	3.40	3.61	3.82	3.93	4.03	4.25	4.46	4.88
400	3.86	4.07	4.28	4.39	4.49	4.70	4.91	5.33
*Multiplier when pumping plant performance rating is less than 100 percent.								
Rating %	100	90	80	70	60	50		
Multiplier	1.00	1.11	1.25	1.43	1.67	2.00		

**Table 3. Alfalfa, Rainfed
Fall Establishment**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate	
				+Pwr	+Imp	+Pwr	+Imp			
1 Spread Fertilizer	1 ac	\$0.94	\$1.10	\$0.56	Incl	\$0.05	Incl	\$2.65		
2 Disc	1 ac	\$1.21	\$3.04	\$0.19	\$1.00	\$1.07	\$1.03	\$7.54		
3 Harrow	1 ac	\$0.71	\$0.44	\$0.52	\$0.10	\$0.05	\$0.34	\$2.16		
4 Harrow	1 ac	\$0.71	\$0.44	\$0.52	\$0.10	\$0.05	\$0.34	\$2.16		
5 Roll	1 ac	\$1.33	\$2.20	\$1.27	\$0.36	\$0.11	\$2.19	\$7.46		
6 Drill	1 ac	\$1.80	\$2.72	\$1.59	\$1.02	\$0.15	\$1.05	\$8.33		
7 Spray	1 ac	\$0.60	\$0.48	\$0.36	\$0.32	\$0.02	\$0.26	\$2.04		
8 Spray	0.5 ac	\$0.30	\$0.24	\$0.18	\$0.16	\$0.01	\$0.13	\$1.02		
If tillage operations (2-5) are not used may need to spray herbicide (7).										
Total for Field Operations		\$7.60	\$10.66	\$5.19	\$3.06	\$1.51	\$5.34	\$33.36		
Wage \$12.00/hr	Elec \$0.072/kwh									
Diesel \$4.00/gal										
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =	Total \$/Acre				
11-52-0	Fertilizer	1	100%	100 lb	0.65/lb	\$65.00				
Alfalfa w/inoculant	Seed	6	100%	12 lb	4.00/lb	\$48.00				
Pursuit	Herbicide	7	100%	4 oz	5.25/oz	\$21.00				
Crop oil concentrate	Herbicide	7	100%	2 pt	1.13/pt	\$2.26				
Lorsban 4 E	Insecticide*	8	50%	1 pt	5.25/pt	\$2.63				
Total Materials & Services		NOTE: May need herbicide, eg., no-till ff wheat					\$138.89			
*Insecticide applied ff spring for potato leafhoppers										
Total listed costs for Field Operations and Materials & Services								\$172.25		

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

Table 4. Alfalfa, Rainfed
Establish spring seed w/herbicides
2.5 ton/ac Alfalfa

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate
				+Pwr	+Imp	+Pwr	+Imp		
1 Spread Fertilizer	1 ac	\$0.94	\$1.10	\$0.56	Incl	\$0.05	Incl	\$2.65	
2 Disc	1 ac	\$1.21	\$3.04	\$0.19	\$1.00	\$1.07	\$1.03	\$7.54	
3 Field Cultivate	1 ac	\$0.62	\$1.54	\$0.10	\$0.60	\$0.54	\$0.58	\$3.97	
4 Seeder/Packer	1 ac	\$2.69	\$3.50	\$1.80	Rent	\$0.16	Rent	\$8.15	
5 Spray	0.5 ac	\$0.50	\$0.26	\$0.29	\$0.10	\$0.02	\$0.11	\$1.28	
6 Spray	1 ac	\$0.98	\$0.50	\$0.58	\$0.19	\$0.05	\$0.22	\$2.52	
7 Swath/Cond Hay	2 ac	\$2.98	\$5.00	\$1.98	\$1.45	\$1.05	\$2.87	\$15.33	
8 Turn Windrows	0.5 ac	\$0.53	\$0.34	\$0.40	\$0.05	\$0.04	\$0.39	\$1.75	
9 Sm Sq Bale	2.5 ton	\$7.64	\$4.40	\$5.13	\$3.74	\$0.45	\$7.44	\$28.80	
10 Stack Sm Sq	2.5 ton	\$9.58	\$5.10	\$5.94	\$0.84	\$0.53	\$1.16	\$23.15	
Total for Field Operations		\$27.67	\$24.78	\$16.97	\$7.97	\$3.95	\$13.80	\$95.14	
Wage \$12.00/hr	Elec \$0.072/kwh								
Diesel \$4.00/gal									
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =		Total \$/Acre		
11-52-0	Fertilizer	1	100%	100 lb	0.65/lb		\$65.00		
Seeder-Packer	Rental	4	100%	1 ac	9.00/ac		\$9.00		
Alfalfa w/Inoculant	Seed	4	100%	12 lb	4.00/lb		\$48.00		
Lorsban 4 E	Insecticide*	5	50%	1 pt	5.25/pt		\$2.63		
Pursuit	Herbicide	6	100%	4 oz	5.25/oz		\$21.00		
Crop Oil. Concentrate	Herbicide	6	100%	2 pt	1.13/pt		\$2.26		
Twine Sm Sq	Other	9	100%	100 bale	0.14/bale		\$14.00		
Total Materials & Services							\$161.89		
*Insecticide for potato leafhoppers									
Total listed costs for Field Operations and Materials & Services								\$257.03	
Cost per ton for Field Operations and Materials & Service								\$102.81	

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 5. Alfalfa, Pivot Irrigated, 800 GPM 35 PSI, 12 acre-inches
Establish spring seed w/herbicides
3.3 ton/ac Alfalfa**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate
				+Pwr	+Imp	+Pwr	+Imp		
1 Spread Fertilizer	1 ac	\$0.94	\$1.10	\$0.56	Incl	\$0.05	Incl	\$2.65	
2 Disc	1 ac	\$1.21	\$3.04	\$0.19	\$1.00	\$1.07	\$1.03	\$7.54	
3 Field Cult	1 ac	\$0.62	\$1.54	\$0.10	\$0.57	\$0.53	\$0.58	\$3.94	
4 Seeder/Packer	1 ac	\$2.69	\$3.50	\$1.80	Rent	\$0.16	Rent	\$8.15	
5 Spray	0.5 ac	\$0.30	\$0.24	\$0.18	\$0.16	\$0.01	\$0.13	\$1.02	
6 Spray	1 ac	\$0.59	\$0.46	\$0.35	\$0.30	\$0.04	\$0.25	\$1.99	
7 PivotD 125'Lift	12 Al	\$4.84	\$99.74	\$4.89	\$4.56	\$9.92	\$19.78	\$143.73	
8 Swath/Cond Hay	1 ac	\$2.98	\$5.00	\$1.98	\$2.54	\$1.05	\$2.87	\$16.42	
9 Turn Windrows	0.5 ac	\$0.53	\$0.34	\$0.40	\$0.05	\$0.04	\$0.39	\$1.75	
10 Lg Sq Bale	3.3 ton	\$2.71	\$5.08	\$0.48	\$2.95	\$2.88	\$5.77	\$19.87	
11 Load Lg Sq	3.3 ton	\$4.97	\$5.80	\$0.76	\$0.21	\$4.67	\$3.17	\$19.40	
12 Spray	0.5 ac	\$0.30	\$0.24	\$0.18	\$0.16	\$0.01	\$0.13	\$1.02	
Total for Field Operations		\$22.50	\$126.08	\$11.87	\$12.50	\$20.43	\$34.10	\$227.48	
Wage \$12.00/hr	Elec \$0.072/kwh								
Diesel \$4.00/gal									
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =		Total \$/Acre		
11-52-0	Fertilizer	1	100%	100 lb	0.65/lb		\$65.00		
Seeder-Packer	Rental	4	100%	1 ac	9.00/ac		\$9.00		
Alfalfa w/Inoculant	Seed	4	100%	12 lb	4.00/lb		\$48.00		
Lorsban 4 E	Insecticide*	5	50%	1 pt	5.25/pt		\$2.63		
Pursuit	Herbicide	6	100%	4 oz	5.25/oz		\$21.00		
Crop Oil Concentrate	Herbicide	6	100%	2 pt	1.13/pt		\$2.26		
Twine Lg Sq	Other	10	100%	4.8 bale	0.45/bale		\$2.16		
Lorsban 4 E	Insecticide	12	50%	1 pt	5.25/pt		\$2.63		
Total Materials & Services							\$152.68		
*Insecticide for potato leafhoppers									
Total listed costs for Field Operations and Materials & Services								\$380.16	
Cost per ton for Field Operations and Materials & Service								\$115.20	

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 6. Alfalfa, Canal Irrigated, 18 acre-inches
Established with oats
2.25 ton/ac Alfalfa**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate
				+Pwr	+Imp	+Pwr	+Imp		
1 Disc	1 ac	\$1.21	\$3.04	\$0.19	\$1.00	\$1.07	\$1.03	\$7.54	
2 Spread, Fertilizer	1 ac	\$0.94	\$1.10	\$0.56	Incl	\$0.05	Incl	\$2.65	
3 Roll	1 ac	\$1.33	\$2.20	\$1.27	\$0.36	\$0.11	\$2.19	\$7.46	
4 Drill	1 ac	\$1.80	\$2.72	\$1.59	\$1.02	\$0.15	\$1.05	\$8.33	
5 Spray	0.5 ac	\$0.30	\$0.24	\$0.18	\$0.16	\$0.01	\$0.13	\$1.02	
6 Corrugate	1 ac	\$1.88	\$2.50	\$1.04	\$0.11	\$0.56	\$0.47	\$6.56	
7 Swath/Cond Hay	2 ac	\$2.98	\$5.00	\$1.98	\$2.54	\$1.05	\$2.87	\$16.42	
8 Turn/Windrows	0.5 ac	\$0.53	\$0.34	\$0.40	\$0.05	\$0.05	\$0.39	\$1.76	
9 Lg Rd Bale	3.0 ton	\$3.01	\$2.60	\$0.44	\$1.17	\$2.42	\$8.76	\$18.40	
10 Move Lg Rd	3.0 ton	\$3.27	\$3.94	\$0.44	\$0.04	\$2.42	\$0.28	\$10.39	
11 Ditch Irrigation	18 Al	\$37.03						\$37.03	
Total for Field Operations		\$54.28	\$23.68	\$8.09	\$6.45	\$7.89	\$17.17	\$117.56	
Wage \$12.00/hr	Elec \$0.072/kwh								
Diesel \$4.00/gal									
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =	Total \$/Acre			
11-52-0	Fertilizer	2	100%	100 lb	0.65/lb	\$65.00			
Alfalfa w/Inoculant	Seed	4	100%	12 lb	4.00/lb	\$48.00			
Oats	Seed	4	100%	0.5 bu	9.00/bu	\$4.50			
Lorsban 4 E	Insecticide*	5	50%	1 pt	5.25/pt	\$2.63			
Twine Lg Rd	Other	9	100%	4.0 bale	0.70/bale	\$2.80			
Water Charge	Other	11	100%	1 ac	35.00/ac	\$35.00			
Total Materials & Services						\$157.93			
*Insecticide for potato leafhoppers									
Total listed costs for Field Operations and Materials & Services								\$275.49	
Cost per ton for Field Operations and Materials & Service								\$122.44	

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 7. Alfalfa, Rainfed
Large Round
4.4 ton/ac Alfalfa**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate
				+Pwr	+Imp	+Pwr	+Imp		
1 Swath/Cond Hay	4 ac	\$5.95	\$10.00	\$3.97	\$5.08	\$2.09	\$5.75	\$32.84	
2 Turn Windrows	1 ac	\$1.07	\$0.68	\$0.79	\$0.10	\$0.07	\$0.77	\$3.48	
3 Double Windrows	3 ac	\$3.19	\$2.04	\$2.36	\$0.87	\$0.22	\$7.42	\$16.10	
4 Lg Rd Bale	4.4 ton	\$4.37	\$3.78	\$0.64	\$1.71	\$3.53	\$12.74	\$26.77	
5 Move Lg Rd	4.4 ton	\$4.74	\$5.72	\$0.64	\$0.05	\$3.53	\$0.41	\$15.09	
6 Spray	0.25 ac	\$0.15	\$0.12	\$0.09	\$0.07	\$0.01	\$0.06	\$0.50	
Total for Field Operations		\$19.47	\$22.34	\$8.49	\$7.88	\$9.45	\$27.15	\$94.78	
Wage \$12.00/hr	Elec \$0.072/kwh								
Diesel \$4.00/gal									
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =	Total \$/Acre			
Twine Lg Rd	Other	4	100%	5.8 bale	0.70/bale	\$4.06			
Mustang Max	Insecticide*	6	25%	3 oz	2.03/oz	\$1.52			
Total Materials & Services						\$5.58			
*Insecticide for cutworms, grasshoppers, aphids, etc.									
Total listed costs for Field Operations and Materials & Services								\$100.36	
Cost per TON for Field Operations and Materials & Service								\$22.81	

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 8. Alfalfa, Pivot Irrigated 800 GPM 35 PSI, 16 acre-inches
Large & Small square
6.6 ton/ac Alfalfa**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate	
				+Pwr	+Imp	+Pwr	+Imp			
1 Spread Fertilizer	1 ac	\$0.94	\$1.10	\$0.56	Incl	\$0.05	Incl	\$2.65		
2 Swath/Condition Hay	5 ac	\$7.44	\$12.50	\$4.96	\$6.35	\$2.61	\$7.19	\$41.05		
3 Turn Windrows	1 ac	\$1.07	\$0.68	\$0.79	\$0.10	\$0.07	\$0.77	\$3.48		
4 Double Windrows	4 ac	\$4.26	\$2.72	\$3.15	\$1.16	\$0.28	\$9.90	\$21.47		
5 Lg Sq Bale	4.4 ton	\$3.62	\$6.78	\$0.64	\$3.95	\$3.82	\$7.71	\$26.52		
6 Load Lg Sq	4.4 ton	\$6.39	\$7.74	\$1.02	\$0.27	\$6.23	\$4.24	\$25.89		
7 Sm Sq Bale	2.2 Ton	\$6.79	\$3.92	\$4.55	\$3.33	\$0.41	\$6.62	\$25.62		
8 Stack Sm Sq	2.2 ton	\$8.52	\$4.54	\$5.28	\$0.75	\$0.48	\$1.04	\$20.61		
9 PivotE 125' Lift	16Al	\$6.45	\$45.52	\$3.81	\$6.09	\$4.56	\$19.84	\$86.27		
10 Spray	0.25 ac	\$0.15	\$0.12	\$0.09	\$0.07	\$0.01	\$0.06	\$0.50		
11 Spray	0.25 ac	\$0.15	\$0.12	\$0.09	\$0.07	\$0.01	\$0.06	\$0.50		
Total for Field Operations		\$45.78	\$85.74	\$24.94	\$22.14	\$18.53	\$57.43	\$254.56		
Wage \$12.00/hr	Elec \$0.072/kwh									
Diesel \$4.00/gal	NOTE: Adjust tons by bale type									
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =	Total \$/Acre				
11-52-0	Fertilizer	1	100%	75 lb	0.65/lb	\$48.75				
Twine Lg Sq	Other	5	67%	9.8 bale	0.45/bale	\$2.95				
Twine Sm Sq	Other	7	33%	265 bale	0.14/bale	\$12.24				
Elec Connect Fees*	Other	9	100%	1 ac	3.25/ac	\$3.25				
Pursuit	Herbicide	10	25%	4.5 oz	5.25/oz	\$5.91				
Crop Oil Concentrate	Herbicide	10	25%	2 pt	1.13/pt	\$0.57				
Mustang Max	Insecticide**	11	25%	3 oz	2.03/oz	\$1.52				
Total Materials & Services		NOTE: Adjust twine to % tons @ each bale type						\$75.19		
*Electrical connection fee 6 mo @\$60/mo 133 acres. ** Insecticide for cutworms, grasshoppers, aphids, etc.										
Total listed costs for Field Operations and Materials & Services								\$329.75		
Cost per ton for Field Operations and Materials & Service								\$49.96		

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 9. Alfalfa, Canal Irrigated, 22 acre-inches
Large Square
6.6 ton/ac Alfalfa**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate
				+Pwr	+Imp	+Pwr	+Imp		
1 Spread Fertilizer	1 ac	\$0.94	\$1.10	\$0.56	Incl	\$0.05	Incl	\$2.65	
2 Swath/Condition Hay	5 ac	\$7.44	\$12.50	\$4.96	\$6.35	\$2.61	\$7.19	\$41.05	
3 Turn Windrows	1 ac	\$1.07	\$0.68	\$0.79	\$0.10	\$0.07	\$0.77	\$3.48	
4 Double Windrows	4 ac	\$4.26	\$2.72	\$3.15	\$1.16	\$0.28	\$9.90	\$21.47	
5 Lg Sq Bale	Custom								
6 Load Lg Sq	6.6 ton	\$9.58	\$11.62	\$1.51	\$0.40	\$9.34	\$6.34	\$38.79	
7 Corrugate	1 ac	\$1.88	\$2.50	\$1.04	\$0.11	\$0.56	\$0.47	\$6.56	
8 Ditch Irrigation	22 Al	\$45.25						\$45.25	
9 Spray	0.25 ac	\$0.15	\$0.12	\$0.09	\$0.07	\$0.01	\$0.06	\$0.50	
10 Spray	0.25 ac	\$0.15	\$0.12	\$0.09	\$0.07	\$0.01	\$0.06	\$0.50	
Total for Field Operations		\$70.72	\$31.36	\$12.19	\$8.26	\$12.93	\$24.79	\$160.25	
Wage \$12.00/hr	Elec \$0.072/kwh								
Diesel \$4.00/gal									
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =			Total \$/Acre	
11-52-0	Fertilizer	1	100%	75 lb	0.65/lb			\$48.75	
Bale Lg Sq 1200 lb	Custom	5	100%	9.8 bale	10.00/bale			\$98.00	
Water Charge	Other	8	100%	1 ac	35.00/ac			\$35.00	
Pursuit DG	Herbicide	9	25%	4.5 oz	5.25/oz			\$5.91	
Crop Oil Concentrate	Herbicide	9	25%	2 pt	1.13/pt			\$0.57	
Mustang Max	Insecticide*	10	25%	3 oz	2.03/oz			\$1.52	
Total Materials & Services								\$189.75	
*Insecticide for cutworms, grasshoppers, aphids, etc.									
Total listed costs for Field Operations and Materials & Services								\$350.00	
Cost per ton for Field Operations and Materials & Service								\$53.03	

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 10. Annual Hay, Rainfed
Annually Planted, Large Round
3.3 ton/ac Annual Hay**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate
				+Pwr	+Imp	+Pwr	+Imp		
1 Disc	1 ac	\$1.21	\$3.04	\$0.19	\$1.00	\$1.07	\$1.03	\$7.54	
2 Spray Liquid Fertilizer	1 ac	\$0.98	\$0.50	\$0.58	\$0.19	\$0.05	\$0.22	\$2.52	
3 Field Cultivate	1 ac	\$0.62	\$1.54	\$0.10	\$0.57	\$0.53	\$0.58	\$3.94	
4 Drill	1 ac	\$1.80	\$2.72	\$1.59	\$1.02	\$0.15	\$1.05	\$8.33	
5 Swath/Condition Hay	1 ac	\$1.49	\$2.84	\$0.99	\$1.27	\$0.52	\$1.44	\$8.21	
6 Lg Rd Bale	3.3 ton	\$3.28	\$2.84	\$0.48	\$1.28	\$2.65	\$9.56	\$20.09	
7 Move Lg Rd	3.3 ton	\$3.56	\$4.30	\$0.48	\$0.04	\$2.65	\$0.30	\$11.33	
Total for Field Operations		\$12.94	\$17.44	\$4.41	\$5.37	\$7.62	\$14.18	\$61.96	
Wage \$12.00/hr	Elec \$0.072/kwh								
Diesel \$4.00/gal									
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =	Total \$/Acre			
28-0-0	Fertilizer	2	100%	40 lb N	0.82/lb N	\$32.80			
Sorghum Sudan	Seed	4	100%	10 lb	0.65/lb	\$6.50			
Twine Lg Rd	Other	6	100%	4.4 bale	0.70/bale	\$3.08			
Total Materials & Services						\$42.38			
Total listed costs for Field Operations and Materials & Services								\$104.34	
Cost per ton for Field Operations and Materials & Service								\$31.62	

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 11. Corn, Rainfed
Conventional, Continuous, 90 bu/ac yield goal
85 bu/ac Corn**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate	
				+Pwr	+Imp	+Pwr	+Imp			
1 Chisel	1 ac	\$1.19	\$2.98	\$0.18	\$0.70	\$1.04	\$0.94	\$7.03		
2 Apply Anhydrous	1 ac	\$1.68	\$3.24	\$0.24	\$0.73	\$1.49	\$0.71	\$8.09		
3 Field Cultivate	1 ac	\$0.62	\$1.54	\$0.10	\$0.57	\$0.53	\$0.58	\$3.94		
4 Plant	1 ac	\$2.20	\$1.82	\$0.30	\$0.65	\$1.71	\$2.52	\$9.20		
5 Spray	1 ac	\$0.98	\$0.50	\$0.58	\$0.19	\$0.05	\$0.22	\$2.52		
6 Row Crop Cultivate	1 ac	\$2.03	\$1.88	\$1.31	\$0.35	\$0.69	\$0.34	\$6.60		
7 Row Crop Cultivate	0.25 ac	\$0.51	\$0.48	\$0.33	\$0.09	\$0.17	\$0.09	\$1.67		
8 Spray	0.25 ac	\$0.24	\$0.12	\$0.15	\$0.05	\$0.01	\$0.06	\$0.63		
9 Spray	Custom									
10 Combine Dryland	1 ac	\$2.44	\$7.74	\$3.05	\$1.04	\$12.48	\$2.17	\$28.92		
11 Cart	85 bu	\$0.49	\$0.94	\$0.07	\$0.33	\$0.44	\$0.57	\$2.84		
12 Truck	Custom									
13 Dry	Custom									
14 Chop Stalks	1 ac	\$1.07	\$1.86	\$0.15	\$0.30	\$0.80	\$0.74	\$4.92		
Total for Field Operations		\$13.45	\$23.10	\$6.46	\$5.00	\$19.41	\$8.94	\$76.36		
Wage \$12.00/hr	Elec \$0.072/kwh									
Diesel \$4.00/gal										
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =	Total \$/Acre				
82-0-0	Fertilizer	2	100%	110 lb N	0.67/lb N	\$73.70				
Corn	Seed	4	100%	0.175 bag	175.00/bag	\$30.63				
Regent 4 SC	Insecticide*	4	100%	4.16 oz	5.60/oz	\$23.30				
10-34-0	Fertilizer	4	100%	6 gal	6.84/gal	\$41.04				
Bicep II Magnum	Herbicide	5	100%	2.1 qt	11.50/qt	\$24.15				
Spray	Custom	8	25%	1 ac	5.50/ac	\$1.38				
Spirit	Herbicide	8	25%	1 oz	14.00/oz	\$3.50				
Crop Oil Concentrate	Herbicide	8	25%	2 pt	1.13/pt	\$0.57				
Spray	Custom	9	50%	1 ac	5.50/ac	\$2.75				
Lorsban 15 G	Insecticide*	9	10%	5 lb	2.10/lb	\$1.05				
Capture 2 EC	Insecticide*	9	10%	2.5 oz	2.26/oz	\$0.57				
Capture 2 EC	Insecticide*	9	10%	5.12 oz	2.26/oz	\$1.16				
Mustang Max	Insecticide*	9	20%	2 oz	2.03/oz	\$0.81				
Haul Grain bu	Custom	12	100%	85 bu	0.15/bu	\$12.75				
Dry 4 Points Removed	Custom	13	100%	85 bu	0.30/bu	\$25.50				
Total Materials & Services		14,000 seeds per acre, 80,000 bag						\$242.86		
*Insecticides for rootworm, 1st & 2nd brood European corn borer, spider mites and western bean cutworm, respectively.										
Total listed costs for Field Operations and Materials & Services								\$319.22		
Cost per bushel for Field Operations and Materials & Service								\$3.76		

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 12. Corn, Rainfed
No-Till, RR & Bt, RW & ECB, Continuous, 110 bu/ac yield goal
100 bu/ac Corn**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate
				+Pwr	+Imp	+Pwr	+Imp		
1 Spray Liquid Fertilizer	1 ac	\$0.98	\$0.50	\$0.58	\$0.20	\$0.04	\$0.22	\$2.52	
2 Plant No-Till	1 ac	\$2.45	\$2.51	\$0.34	\$1.28	\$1.89	\$1.89	\$10.36	
3 Spray	1 ac	\$0.98	\$0.50	\$0.58	\$0.20	\$0.04	\$0.22	\$2.52	
4 Spray	Custom								
5 Combine Dryland	1 ac	\$2.44	\$7.64	\$3.05	\$1.05	\$12.47	\$2.17	\$28.82	
6 Cart	100 BU	\$0.53	\$1.10	\$0.09	\$0.39	\$0.51	\$0.68	\$3.30	
7 Truck	Custom								
8 Dry	Custom								
Total for Field Operations		\$7.38	\$12.25	\$4.64	\$3.12	\$14.95	\$5.18	\$47.52	
Wage \$12.00/hr	Elec \$0.072/kwh								
Diesel \$4.00/gal									
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =			Total \$/Acre	
28-0-0	Fertilizer	1	100%	120 lb N	0.82/lb N			\$98.40	
Expert	Herbicide	1	100%	3 qt	10.50/qt			\$31.50	
Corn Triple Stack	Seed	2	80%	0.22 bag	250.00/bag			\$44.00	
Corn	Seed	2	20%	0.22 bag	175.00/bag			\$7.70	
Regent 4 SC	Insecticide*	2	20%	4.16 oz	5.60/oz			\$4.66	
10-34-0	Fertilizer	2	100%	6 gal	6.84/gal			\$41.04	
Glyphosate w/Surf	Herbicide	3	100%	32 oz	0.35/oz			\$11.20	
21-0-0-26s	Spray Grade	3	100%	1.7 lb	0.53/lb			\$0.90	
Spray	Custom	4	32%	1 ac	5.50/ac			\$1.76	
Lorsban 15 G	Insecticide*	4	5%	2 lb	2.10/lb			\$0.21	
Capture 2 EC	Insecticide*	4	10%	5.12 oz	2.26/oz			\$1.16	
Mustang Max	Insecticide*	4	20%	2 oz	2.03/oz			\$0.81	
Haul Grain bu	Custom	7	100%	100 bu	\$0.15/bu			\$15.00	
Dry 4 Points Removed	Custom	8	100%	100 bu	\$0.30/bu			\$30.00	
Total Materials & Services		17,100 seeds per acre, 80,000 bag, 20% refuge						\$288.34	
*Insecticides for rootworm (refuge), 1st brood European corn borer (10% of refuge), spider mites, and western bean cutworm, respectively.									
Total listed costs for Field Operations and Materials & Services								\$335.86	
Cost per bushel for Field Operations and Materials & Service								\$3.36	

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

Table 13. Corn, Rainfed
No-Till, Bt ECB After Soybean, 120 bu/ac yield goal
110 bu/ac Corn

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate	
				+Pwr	+Imp	+Pwr	+Imp			
1 Spray	1 ac	\$0.98	\$0.50	\$0.58	\$0.20	\$0.04	\$0.22	\$2.52		
2 Plant No-Till	1 ac	\$2.45	\$2.51	\$0.34	\$1.28	\$1.89	\$1.89	\$10.36		
3 Spray	1 ac	\$0.98	\$0.50	\$0.58	\$0.20	\$0.04	\$0.22	\$2.52		
4 Spray	0.25 ac	\$0.24	\$0.19	\$0.14	\$0.04	\$0.01	\$0.07	\$0.69		
5 Spray	Custom									
6 Combine Dryland	1 ac	\$2.44	\$7.64	\$3.05	\$1.05	\$12.47	\$2.17	\$28.82		
7 Cart	110 bu	\$0.56	\$1.17	\$0.09	\$0.41	\$0.55	\$0.70	\$3.48		
8 Truck	Custom									
9 Dry	Custom									
Total for Field Operations		\$7.65	\$12.51	\$4.78	\$3.18	\$15.00	\$5.27	\$48.39		
Wage \$12.00/hr	Elec \$0.072/kwh									
Diesel \$4.00/gal										
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =	Total \$/Acre				
28-0-0	Fertilizer	1	100%	80 lb N	0.82/lb N	\$65.60				
Corn Bt ECB	Seed	2	80%	0.23 bag	225.00/bag	\$41.40				
Corn	Seed	2	20%	0.23 bag	175.00/bag	\$8.05				
10-34-0	Fertilizer	2	100%	6 gal	6.84/gal	\$41.04				
Expert	Herbicide	3	100%	3 qt	10.50/qt	\$31.50				
21-0-0-26S	Spray Grade	3	100%	1.7 lb	0.53/lb	\$0.90				
Spirit	Herbicide	4	25%	1 oz	14.00/oz	\$3.50				
Crop Oil Concentrate	Herbicide	4	25%	2 pt	1.13pt	\$0.57				
Spray	Custom	5	34%	1 ac	5.50/ac	\$1.87				
Lorsban 15 G	Insecticide*	5	2%	2 lb	2.10/lb	\$0.08				
Capture 2 EC	Insecticide*	5	2%	2.5 oz	2.26/oz	\$0.11				
Capture 2 EC	Insecticide*	5	10%	5.12 oz	2.26oz	\$1.16				
Mustang Max	Insecticide*	5	20%	2 oz	2.03oz	\$0.81				
Haul Grain bu	Custom	8	100%	110 bu	0.15/bu	\$16.50				
Dry 4 Points Removed	Custom	9	50%	110 bu	0.30/bu	\$16.50				
Total Materials & Services		17,900 seeds per acre, 80,000 bag, 20% refuge					\$229.59			
*Insecticides for 1st & 2nd brood European corn borers (10% of refuge), spider mites and western bean cutworm, respectively.										
Total listed costs for Field Operations and Materials & Services								\$277.98		
Cost per bushel for Field Operations and Materials & Service								\$2.53		

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

Table 14. Corn, Rainfed

Year 2009

**Ecofallow ff Wheat, Two Crops in Three Years, RR & Bt ECB, 90 bu/ac yield goal
80 bu/ac Corn**

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate	
				+Pwr	+Imp	+Pwr	+Imp			
1 Spray	1 ac	\$0.98	\$0.50	\$0.58	\$0.20	\$0.04	\$0.22	\$2.52		
2 Spray	1 ac	\$0.98	\$0.50	\$0.58	\$0.20	\$0.04	\$0.22	\$2.52		
3 Spray	1 ac	\$0.98	\$0.50	\$0.58	\$0.20	\$0.04	\$0.22	\$2.52		
4 Plant No-Till	1 ac	\$2.45	\$2.51	\$0.34	\$1.28	\$1.89	\$1.89	\$10.36		
5 Spray	1 ac	\$0.98	\$0.50	\$0.58	\$0.20	\$0.04	\$0.22	\$2.52		
6 Spray	Custom									
7 Combine Dryland	1 ac	\$1.96	\$6.11	\$2.44	\$0.84	\$9.98	\$1.74	\$23.07		
8 Cart	80 bu	\$0.45	\$0.93	\$0.08	\$0.33	\$0.44	\$0.57	\$2.80		
9 Truck	Custom									
10 Dry	Custom									
Total for Field Operations		\$8.78	\$11.55	\$5.18	\$3.25	\$12.47	\$5.08	\$46.31		
Wage \$12.00/hr	Elec \$0.072/kwh									
Diesel \$4.00/gal										
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =	Total \$/Acre				
Glyphosate w/Surf	Herbicide	1	100%	32 oz	0.35/oz	\$11.20				
AAtrex 4L	Herbicide	2	100%	1.5 qt	4.75/qt	\$7.13				
Glyphosate w/Surf	Herbicide	2	100%	32 oz	0.35/oz	\$11.20				
28-0-0	Fertilizer	3	100%	100 lb N	0.82/lb N	\$82.00				
AAtrex 4L	Herbicide	3	100%	0.5 qt	4.75/qt	\$2.38				
Balance Pro	Herbicide	3	100%	1.5 oz	10.00/oz	\$15.00				
10-34-0	Fertilizer	4	100%	6 gal	6.84/gal	\$41.04				
Corn Bt ECB	Seed	4	80%	0.175/bag	225.00/bag	\$31.50				
Corn	Seed	4	20%	0.175 bag	175.00/bag	\$6.13				
Glyphosate w/Surf	Herbicide	5	100%	32 oz	0.35/oz	\$11.20				
21-0-0-26S	Spray Grade	5	10%	1.7 lb	0.53/lb	\$0.09				
Spray	Custom	6	34%	1 ac	5.50/ac	\$1.87				
Lorsban 15 G	Insecticide*	6	2%	2 lb	2.10/lb	\$0.08				
Capture 2 EC	Insecticide*	6	2%	2.5 oz	2.26/oz	\$0.11				
Capture 2 EC	Insecticide*	6	10%	5.12 oz	2.26/oz	\$1.16				
Mustang Max	Insecticide*	6	20%	2 oz	2.03/oz	\$0.81				
Haul Grain bu	Custom	9	100%	80 bu	0.15/bu	\$12.00				
Dry 4 Points Removed	Custom	10	100%	80 bu	0.30/bu	\$24.00				
Total Materials & Services		14,000 seeds per acre, 80,000 bag, 20% refuge						\$258.90		
*Insecticides for 1st & 2nd brood European corn borer (10% of refuge), spider mites, and western bean cutworm, respectively.										
Total listed costs for Field Operations and Materials & Services								\$305.21		
Cost per bushel for Field Operations and Materials & Service								\$3.82		

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

Table 15. Corn, Gravity Irrigated, 1,000 GPM 10 PSI, 18 acre-inches Ridge-Till, RR & Bt, RW & ECB, Continuous, 210 bu/ac yield goal 195 bu/ac Corn

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate	
				+Pwr	+Imp	+Pwr	+Imp			
1 Spray	0.2 ac	\$0.19	\$0.10	\$0.12	\$0.04	\$0.01	\$0.05	\$0.51		
2 Apply Anhydrous	1 ac	\$1.68	\$3.24	\$0.24	\$0.73	\$1.49	\$0.71	\$8.09		
3 Ridge Plant	1 ac	\$2.46	\$2.54	\$0.34	\$1.27	\$1.89	\$1.89	\$10.39		
4 Hoe	0.1 ac	\$0.09	\$0.10	\$0.01	\$0.01	\$0.07	\$0.04	\$0.32		
5 Ridge Cultivation	1 ac	\$2.03	\$3.28	\$0.32	\$0.80	\$1.76	\$0.76	\$8.95		
6 Ridge Cultivation	1 ac	\$2.03	\$3.28	\$0.32	\$0.80	\$1.76	\$0.76	\$8.95		
7 Spray	Custom									
8 Pipe D125' Lift	18 Al	\$21.78	\$105.30	\$5.87	\$1.96	\$11.42	\$5.08	\$151.41		
9 Combine Irrigated	1 ac	\$3.19	\$10.14	\$3.99	\$1.04	\$16.34	\$2.17	\$36.87		
10 Cart	195 bu	\$1.00	\$2.12	\$0.16	\$0.74	\$0.97	\$1.27	\$6.26		
11 Truck	Custom									
12 Dry	Custom									
13 Chop Stalks	1 ac	\$1.07	\$1.86	\$0.15	\$0.30	\$0.80	\$0.74	\$4.92		
Total for Field Operations		\$35.52	\$131.96	\$11.52	\$7.69	\$36.51	\$13.47	\$236.67		
Wage \$12.00/hr	Elec \$0.072/kwh									
Diesel \$4.00/gal										
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =	Total \$/Acre				
2,4-D Ester 4#	Herbicide	1	20%	1.5 pt	2.25/pt	\$0.68				
82-0-0	Fertilizer	2	100%	230 lb N	0.67/lb N	\$154.10				
10-34-0	Fertilizer	3	100%	6 gal	6.84/gal	\$41.04				
Bicep II Magnum	Herbicide	3	40%	2.1 qt	11.50/qt	\$9.66				
Corn RR ECB&RW	Seed	3	80%	0.4 bag	250.00/bag	\$80.00				
Corn	Seed	3	20%	0.4 bag	175.00/bag	\$14.00				
Regent 4 SC	Insecticide*	3	20%	4.16 oz	5.60/oz	\$4.66				
Spray	Custom	7	32%	1 ac	5.50/ac	\$1.76				
Lorsban 15 G	Insecticide*	7	2%	5 lb	2.10/lb	\$0.21				
Capture 2 EC	Insecticide*	7	10%	5.12 oz	2.26/oz	\$1.16				
Mustang Max	Insecticide*	7	20%	2 oz	2.03/oz	\$0.81				
Haul Grain	Custom	11	100%	195 bu	0.15/bu	\$29.25				
Dry 4 Points Removed	Custom	12	100%	195 bu	0.30/bu	\$58.50				
Total Materials & Services		32,000 seeds per acre, 80,000 bag, 20% refuge						\$395.83		
*Insecticides for rootworm (refuge), 1st brood European corn borer (10% of refuge), spider mites, and western bean cutworm, respectively.										
Total listed costs for Field Operations and Materials & Services								\$632.50		
Cost per bushel for Field Operations and Materials & Service								\$3.24		

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 16. Corn, Pivot Irrigated, 800 GPM 35 PSI, 9 acre-inches
No-Till, Bt ECB & RW, Continuous, 210 bu/ac yield goal
195 bu/ac Corn**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate	
				+Pwr	+Imp	+Pwr	+Imp			
1 Spray	0.2 ac	\$0.20	\$0.10	\$0.12	\$0.03	\$0.01	\$0.04	\$0.50		
2 Apply Anhydrous	1 ac	\$1.68	\$3.20	\$0.24	\$0.73	\$1.49	\$0.72	\$8.06		
3 Spray	1 ac	\$0.59	\$0.46	\$0.35	\$0.31	\$0.03	\$0.25	\$1.99		
4 Plant	1 ac	\$2.20	\$1.80	\$0.31	\$0.65	\$1.71	\$2.52	\$9.19		
5 Spray	0.25 ac	\$0.14	\$0.12	\$0.09	\$0.08	\$0.01	\$0.07	\$0.51		
6 Spray	Custom									
7 PivotD 125' Lift	9 AI	\$3.63	\$73.77	\$3.66	\$3.42	\$7.45	\$14.83	\$106.76		
8 Combine Irrigated	1 ac	\$3.19	\$10.00	\$3.99	\$1.05	\$16.34	\$2.17	\$36.74		
9 Cart	195 bu	\$1.00	\$2.09	\$0.15	\$0.74	\$0.97	\$1.28	\$6.23		
10 Truck	Custom									
11 Dry	Custom									
Total for Field Operations		\$12.63	\$91.54	\$8.91	\$7.01	\$28.01	\$21.88	\$169.98		
Wage \$12.00/hr	Elec \$0.072/kwh									
Diesel \$4.00/gal										
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =		Total \$/Acre			
2,4-D Ester 4#	Herbicide	1	20%	1.5 pt	2.25/pt		\$0.68			
82-0-0	Fertilizer	2	100%	230 lb N	0.67/lb N		\$154.10			
Bicep II Magnum	Herbicide	3	100%	2.1 qt	11.50/qt		\$24.15			
Corn Bt ECB&RW	Seed	4	80%	0.4 bag	225.00/bag		\$72.00			
Corn	Seed	4	20%	0.4 bag	175.00/bag		\$14.00			
Regent 4 SC	Insecticide*	4	20%	4.16 oz	5.60/oz		\$4.66			
10-34-0	Fertilizer	4	100%	6 gal	6.84/gal		\$41.04			
Spirit	Herbicide	5	25%	1 oz	14.00/oz		\$3.50			
Crop Oil Concentrate	Herbicide	5	25%	2 pt	1.13/pt		\$0.57			
Spray	Custom	6	32%	1 ac	5.50/ac		\$1.76			
Lorsban 15 G	Insecticide*	6	2%	5 lb	2.10/lb		\$0.21			
Capture 2 EC	Insecticide*	6	10%	5.12 oz	2.26/oz		\$1.16			
Mustang Max	Insecticide*	6	20%	2 oz	2.03/oz		\$0.81			
Haul Grain bu	Custom	10	100%	195 bu	0.15/bu		\$29.25			
Dry 4 Points Removed	Custom	11	100%	195 bu	0.30/bu		\$58.50			
Total Materials & Services		32,000 seeds per acre, 80,000 bag, 20% refuge						\$406.39		
*Insecticides for rootworm (refuge), 1st Brood European corn borer (10% of refuge), spider mites, and western bean cutworm, respectively.										
Total listed costs for Field Operations and Materials & Services								\$576.37		
Cost per bushel for Field Operations and Materials & Service								\$2.96		

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 17. Corn, Pivot Irrigated, 800 GPM 35PSI, 13 acre-inches
Bt ECB & RW, Continuous, 200 bu/ac yield goal
185 bu/ac Corn**

Year 2009

Field operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate
				+Pwr	+Imp	+Pwr	+Imp		
1 Disc	1 ac	\$1.21	\$3.04	\$0.19	\$1.00	\$1.07	\$1.03	\$7.54	
2 Apply Anhydrous	1 ac	\$1.68	\$3.24	\$0.24	\$0.73	\$1.49	\$0.71	\$8.09	
3 Field Cultivation	1 ac	\$0.62	\$1.54	\$0.10	\$0.57	\$0.53	\$0.58	\$3.94	
4 Spray	1 ac	\$0.98	\$0.50	\$0.58	\$0.19	\$0.05	\$0.22	\$2.52	
5 Plant	1 ac	\$2.20	\$1.82	\$0.30	\$0.65	\$1.71	\$2.52	\$9.20	
6 Row Crop Cultivation	1 ac	\$2.03	\$1.88	\$1.31	\$0.35	\$0.69	\$0.34	\$6.60	
7 Row Crop Cultivation	0.25 ac	\$0.51	\$0.48	\$0.33	\$0.09	\$0.17	\$0.09	\$1.67	
8 Spray	0.25 ac	\$0.24	\$0.12	\$0.15	\$0.05	\$0.01	\$0.06	\$0.63	
9 Spray	Custom								
10 PivotD 125' Lift	13 Al	\$5.24	\$108.06	\$5.30	\$4.94	\$10.75	\$21.43	\$155.72	
11 Combine Irrig	1 ac	\$3.19	\$10.14	\$3.99	\$1.04	\$16.34	\$2.17	\$36.87	
12 Cart	175 bu	\$0.98	\$2.06	\$0.15	\$0.73	\$0.94	\$1.23	\$6.09	
13 Truck	Custom								
14 Dry	Custom								
15 Chop Stalks	1 ac	\$1.07	\$1.86	\$0.15	\$0.30	\$0.80	\$0.74	\$4.92	
Total for Field Operations		\$19.95	\$134.74	\$12.79	\$10.64	\$34.55	\$31.12	\$243.79	
Wage \$12.00/hr	Elec \$0.072/kwh								
Diesel \$4.00/gal									
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =	Total \$/Acre			
82-0-0	Fertilizer	2	100%	210 lb N	0.67/lb N	\$140.70			
Bicep II Magnum	Herbicide	4	100%	2.1 qt	11.50/qt	\$24.15			
10-34-0	Fertilizer	5	100%	6 gal	6.84/gal	\$41.04			
Corn Bt ECB&RW	Seed	5	80%	0.39/bag	225.00/bag	\$70.20			
Corn	Seed	5	20%	0.39 bag	175.00/bag	\$13.65			
Regent 4 SC	Insecticide*	5	20%	4.16 oz	5.60/oz	\$4.66			
Exceed	Herbicide	8	25%	1 oz	12.00/oz	\$3.00			
Crop Oil Concentrate	Herbicide	8	25%	2 pt	1.13/pt	\$0.57			
Spray	Custom	9	32%	1 ac	5.50/ac	\$1.76			
Lorsban 15 G	Insecticide*	9	2%	5 lb	2.10/lb	\$0.21			
Capture 2 EC	Insecticide*	9	10%	5.12 oz	2.26/oz	\$1.16			
Mustang Max	Insecticide*	9	20%	2 oz	2.03/oz	\$0.81			
Haul Grain bu	Custom	13	100%	185 bu	0.15/bu	\$27.75			
Dry 4 Points Removed	Custom	14	100%	185 by	0.30/bu	\$55.50			
Total Materials & Services		31,000 seeds per acre, 80,000 bag, 20% refuge						\$385.16	
*Insecticides for rootworm (refuge), 1st brood European corn borer (10% of refuge), spider mites, and western bean cutworm, respectively.									
Total listed costs for Field Operations and Materials & Services								\$628.95	
Cost per bushel for Field Operations and Materials & Service								\$3.40	

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 18. Corn, Pivot Irrigated, 800 GPM 35 PSI, 9 acre-inches
No-Till, Bt ECB, after beans, 220 bu/ac yield goal
205 bu/ac Corn**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate	
				+Pwr	+Imp	+Pwr	+Imp			
1 Apply Anhydrous	1 ac	\$1.68	\$3.20	\$0.24	\$0.73	\$1.49	\$0.72	\$8.06		
2 Spray	1 ac	\$0.98	\$0.50	\$0.58	\$0.20	\$0.04	\$0.22	\$2.52		
3 Plant No-Till	1 ac	\$2.45	\$2.51	\$0.34	\$1.28	\$1.89	\$1.89	\$10.36		
4 Hoe	0.1 ac	\$0.09	\$0.11	\$0.01	\$0.01	\$0.08	\$0.03	\$0.33		
5 Spray	0.5 ac	\$0.50	\$0.26	\$0.29	\$0.10	\$0.02	\$0.11	\$1.28		
6 Spray	Custom									
7 PivotD 125' Lift	9 Al	\$3.63	\$73.77	\$3.63	\$3.42	\$7.45	\$14.84	\$106.74		
8 Combine Irrigated	1 ac	\$3.19	\$10.01	\$3.99	\$1.05	\$16.34	\$2.17	\$36.75		
9 Cart	205 bu	\$1.06	\$2.21	\$0.15	\$0.79	\$1.03	\$1.34	\$6.58		
10 Truck	Custom									
11 Dry	Custom									
Total for Field Operations		\$13.58	\$92.57	\$9.23	\$7.58	\$28.34	\$21.32	\$172.62		
Wage \$12.00/hr	Elec \$0.072/kwh									
Diesel \$4.00/gal										
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =	Total \$/Acre				
82-0-0	Fertilizer	1	100%	180 lb N	0.67/lb N	\$120.60				
Bicep II Magnum	Herbicide	2	100%	2.1 qt	11.50/qt	\$24.15				
Gramoxone Inteon	Herbicide	2	100%	1.5 pt	4.75/pt	\$7.13				
NIS	Herbicide	2	100%	6 oz	0.20/oz	\$1.20				
10-34-0	Fertilizer	3	100%	6 gal	6.84/gal	\$41.04				
Corn Bt ECB	Seed	3	80%	0.42 bag	225.00/bag	\$75.60				
Corn	Seed	3	20%	0.42 bag	175.00/bag	\$14.70				
Spirit	Herbicide	5	50%	1 oz	14.00/oz	\$7.00				
Crop Oil Concentrate	Herbicide	5	50%	2 pt	1.13/pt	\$1.13				
Spray	Custom	6	34%	1 ac	5.50/ac	\$1.87				
Lorsban 15 G	Insecticide*	6	2%	5 lb	2.10/lb	\$0.21				
Capture 2 EC	Insecticide*	6	2%	2.5 oz	2.26/oz	\$0.11				
Capture 2 EC	Insecticide*	6	10%	5.12 oz	2.26/oz	\$1.16				
Mustang Max	Insecticide*	6	20%	2 oz	2.03/oz	\$0.81				
Haul Grain bu	Custom	10	100%	205 bu	0.15/bu	\$30.75				
Dry 4 Points Removed	Custom	11	50%	205 bu	0.30/bu	\$30.75				
Total Materials & Services		33,500 seeds per acre, 80,000 bag, 20% refuge						\$358.21		
*Insecticide for 1st & 2nd brood European corn borer (10% of refuge), spider mites, and western bean cutworm, respectively.										
Total listed costs for Field Operations and Materials & Services								\$530.83		
Cost per bushel for Field Operations and Materials & Service								\$2.59		

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 19. Corn Silage, Pivot Irrigated, 800 GPM 35PSI, 12 acre-inches
Notill following corn, 205 bu/ac yield goal
25 ton/ac Corn Silage**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate	
				+Pwr	+Imp	+Pwr	+Imp			
1 Spray	1 ac	\$0.59	\$0.46	\$0.35	\$0.30	\$0.04	\$0.25	\$1.99		
2 Spread manure	Custom									
3 Apply Anhydrous	1 ac	\$1.68	\$3.24	\$0.24	\$0.73	\$1.49	\$0.71	\$8.09		
4 Plant No-Till	1 ac	\$2.46	\$2.54	\$0.34	\$1.27	\$1.89	\$1.89	\$10.39		
5 Hoe	0.1 ac	\$0.09	\$0.10	\$0.01	\$0.01	\$0.07	\$0.04	\$0.32		
6 PivotD 125' Lift	12 AI	\$4.84	\$99.74	\$4.89	\$4.56	\$9.92	\$19.78	\$143.73		
7 Spray	Custom									
8 Chop Silage	Custom									
Total for Field Operations		\$9.66	\$106.08	\$5.83	\$6.87	\$13.41	\$22.67	\$164.52		
Wage \$12.00/hr	Elec \$0.072/kwh									
Diesel \$4.00/gal	Reduced rate of herbicide w/o warranty, use full rate if needed									
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =	Total \$/Acre				
2,4-D Ester 4#	Herbicide	1	100%	1 pt	2.38/pt	\$2.38				
Uncomposted Manure	Fertilizer	2	100%	20 ton	6.00/ton	\$120.00				
Haul & Apply Manure	Custom	2	100%	20 ton	2.00/ton	\$40.00				
82-0-0	Fertilizer	3	100%	240 lb N	0.67/lb N	\$160.80				
10-34-0	Fertilizer	4	100%	6 gal	6.84/gal	\$41.04				
Bicep II Magnum	Herbicide	4	100%	1.4 qt	15.75/qt	\$22.05				
Corn	Seed	4	100%	0.42 bag	175.00/bag	\$73.50				
Regent 4 SC	Insecticide*	4	100%	4.16 oz	5.60/oz	\$23.30				
Aerial Spray	Custom	7	25%	1 ac	7.00/ac	\$1.75				
Capture 2 EC	Insecticide*	7	10%	2.5 oz	2.26/oz	\$0.57				
Capture 2 EC	Insecticide*	7	10%	2.5 oz	2.26/oz	\$0.57				
Mustang Max	Insecticide*	7	5%	2 oz	2.03/oz	\$0.20				
Chop, Haul, Pack	Custom	8	100%	25 ton	6.50/ton	\$162.50				
Total Materials & Services		33,500 seeds per acre, 80,000 bag						\$648.66		
*Insecticide for rootworm, 1st & 2nd brood European corn borer and western bean cutworm, respectively.										
Total listed costs for Field Operations and Materials & Services								\$813.18		
Cost per ton for Field Operations and Materials & Service								\$32.53		

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 20. Dry Beans, Pivot Irrigated, 800 GPM 35 PSI, 8 acre-inches
Conventional with wheat cover crop
20 cwt/ac Dry Beans**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate	
				+Pwr	+Imp	+Pwr	+Imp			
1 Field Cultivation	1 ac	\$0.62	\$1.53	\$0.10	\$0.57	\$0.53	\$0.58	\$3.93		
2 Discing	1 ac	\$1.21	\$3.00	\$0.20	\$1.00	\$1.07	\$1.03	\$7.51		
3 Spray (attached)	1 ac	\$0.20			\$0.20		\$0.22	\$0.62		
4 Plant	1 ac	\$2.20	\$1.80	\$0.31	\$0.65	\$1.71	\$2.52	\$9.19		
5 Hoe	1 ac	\$0.80	\$0.93	\$0.12	\$0.07	\$0.70	\$0.37	\$2.99		
6 Row Crop Cultivation	1 ac	\$2.04	\$1.85	\$2.08	\$0.35	\$0.69	\$0.34	\$7.35		
7 Ridge Cultivation	1 ac	\$2.04	\$3.24	\$0.32	\$0.80	\$1.76	\$0.76	\$8.92		
8 Weed	Labor									
9 PivotE 125' Lift	8 Al	\$3.24	\$17.00	\$1.43	\$3.04	\$2.29	\$9.92	\$36.91		
10 Spray	Custom									
11 Pickett Windrowers	1 ac	\$1.88	\$3.46	\$0.52	\$1.28	\$1.07	\$3.49	\$11.70		
12 Combine	1 ac	\$2.34	\$6.18	\$2.93	\$0.26	\$11.98	\$0.81	\$24.50		
13 Truck	Custom									
14 Plant cover crop wheat		\$0.83	\$1.88	\$0.12	\$2.83	\$0.67	\$3.55	\$9.88		
Total for Field Operations		\$16.56	\$38.99	\$8.01	\$8.22	\$21.80	\$20.04	\$123.50		
Wage \$12.00/hr	Elec \$0.072/kwh									
Diesel \$4.00/gal										
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =	Total \$/Acre				
10-34-0-1Z	Fertilizer	3	100%	9 gal	7.19/gal	\$64.71				
Dual II Magnum	Herbicide	3	100%	1.33 pt	16.63/pt	\$22.12				
Edible Beans	Seed	4	100%	0.5 ac	50.00/ac	\$25.00				
Weeding/Thinning	Other	8	100%	1 ac	36.00/ac	\$36.00				
Elect Connect Fees	Other	9	100%	1 ac	3.25/ac	\$3.25				
Aerial Spray	Custom	10	60%	1 ac	7.00/ac	\$4.20				
Warrior T	Insecticide*	10	60%	1.92 oz	2.81/oz	\$3.24				
Haul Grain cwt	Custom	13	100%	20 cwt	0.20/cwt	\$4.00				
Wheat	Seed	14	100%	30 lb	0.20/lb	\$6.00				
Total Materials & Services		Elec connect fee 6 months @\$72/mo 133 acres						\$168.52		
*Insecticide for Mexican bean beetle and western bean cutworm (10%)										
Total listed costs for Field Operations and Materials & Services								\$292.02		
Cost per Cwt for Field Operations and Materials & Service								\$14.60		

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 21. Grain Sorghum, Rainfed
Conventional 100 bu/ac yield goal
90 bu/ac Grain Sorghum**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate
				+Pwr	+Imp	+Pwr	+Imp		
1 Disc	1 ac	\$1.21	\$3.04	\$0.20	\$1.00	\$1.07	\$1.03	\$7.55	
2 Apply Anhydrous	1 ac	\$1.68	\$3.24	\$0.24	\$0.73	\$1.49	\$0.71	\$8.09	
3 Field Cultivation	1 ac	\$0.62	\$1.54	\$0.10	\$0.57	\$0.53	\$0.58	\$3.94	
4 Plant	1 ac	\$2.20	\$1.82	\$0.30	\$0.65	\$1.71	\$2.52	\$9.20	
5 Row Crop Cultivation	1 ac	\$2.03	\$1.88	\$1.31	\$0.35	\$0.69	\$0.34	\$6.60	
6 Row Crop Cultivation	0.25 ac	\$0.51	\$0.48	\$0.33	\$0.09	\$0.17	\$0.09	\$1.67	
7 Spray	1 ac	\$0.98	\$0.50	\$0.58	\$0.19	\$0.05	\$0.22	\$2.52	
8 Spray	Custom								
9 Combine	1 ac	\$1.84	\$5.84	\$2.30	\$0.13	\$9.40	\$1.37	\$20.88	
10 Cart	90 bu	\$0.45	\$0.94	\$0.07	\$0.33	\$0.44	\$0.57	\$2.80	
11 Truck	Custom								
Total for Field Operations		\$11.52	\$19.28	\$5.43	\$4.04	\$15.55	\$7.43	\$63.25	
Wage \$12.00/hr	Elec \$0.072/kwh								
Diesel \$4.00/gal									
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =			Total \$/Acre	
82-0-0	Fertilizer	2	100%	110 lb N	0.67/lb N			\$73.70	
10-34-0	Fertilizer	4	100%	6 gal	6.84/gal			\$41.04	
Bicep II Magnum	Herbicide	4	100%	2.1 qt	11.50/qt			\$24.15	
Sorghum Safened/Insect	Seed	4	100%	4 lb	3.20/lb			\$12.80	
Peak	Herbicide	7	100%	0.75 oz	17.00/oz			\$12.75	
Crop Oil Concentrate	Herbicide	7	100%	2 pt	1.13/pt			\$2.26	
Aerial Spray	Custom	8	15%	1 ac	7.00/ac			\$1.05	
Lorsban 4 E	Insecticide*	8	15%	1.5 pt	5.25/pt			\$1.18	
Haul Grain bu	Custom	11	100%	90 bu	0.15/bu			\$13.50	
Total Materials & Services								\$182.43	
*Treating greenbugs one year in 10, chinchbugs one in 15									
Total listed costs for Field Operations and Materials & Services								\$245.68	
Cost per bushel for Field Operations and Materials & Service								\$2.73	

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 22. Grain Sorghum, Rainfed
No-Till 120 bu/ac yield goal
110 bu/ac Grain Sorghum**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate
				+Pwr	+Imp	+Pwr	+Imp		
1 Spray	1 ac	\$0.98	\$0.50	\$0.58	\$0.19	\$0.05	\$0.22	\$2.52	
2 Spray Liquid Fertilizer	1 ac	\$0.98	\$0.50	\$0.58	\$0.19	\$0.05	\$0.22	\$2.52	
3 Plant No-Till	1 ac	\$2.46	\$2.54	\$0.34	\$1.27	\$1.89	\$1.89	\$10.39	
4 Spray	0.5 ac	\$0.50	\$0.26	\$0.29	\$0.10	\$0.02	\$0.11	\$1.28	
5 Spray	Custom								
6 Combine	1 ac	\$1.84	\$5.84	\$2.30	\$0.13	\$9.40	\$1.37	\$20.88	
7 Cart	110 bu	\$0.58	\$1.24	\$0.09	\$0.44	\$0.57	\$0.74	\$3.66	
8 Truck	Custom								
Total for Field Operations		\$7.34	\$10.88	\$4.18	\$2.32	\$11.98	\$4.55	\$41.25	
Wage \$12.00/hr	Elec \$0.072/kwh								
Diesel \$4.00/gal									
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =	Total \$/Acre			
Glyphosate w/Surf	Herbicide	1	100%	32 oz	0.35/oz	\$11.20			
28-0-0	Fertilizer	2	100%	130 lb N	0.82/lb N	\$106.60			
Bicep II Magnum	Herbicide	3	100%	2.1 qt	11.50/qt	\$24.15			
10-34-0	Fertilizer	3	100%	6 gal	6.84/gal	\$41.04			
Sorghum Safened/Insect	Seed	3	100%	4 lb	3.20/lb	\$12.80			
Peak	Herbicide	4	50%	0.75 oz	17.00/oz	\$6.38			
Crop Oil Concentrate	Herbicide	4	50%	2 pt	1.13/pt	\$1.13			
Aerial Spray	Custom	5	15%	1 ac	7.00/ac	\$1.05			
Lorsban 4 E	Insecticide*	5	15%	1.5 pt	5.25/pt	\$1.18			
Haul Grain bu	Custom	8	100%	110 bu	0.15/bu	\$16.50			
Total Materials & Services						\$222.03			
*Treating greenbugs one year in 10, chinch bugs one in 15									
Total listed costs for Field Operations and Materials & Services								\$263.28	
Cost per bushel for Field Operations and Materials & Service								\$2.39	

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 23. Grain Sorghum, Rainfed
Ecofallow, After Wheat, Two Crops in Three Years, 110 bu/ac yield goal
100 bu/ac Grain Sorghum**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate
				+Pwr	+Imp	+Pwr	+Imp		
1 Spray	1 ac	\$0.59	\$0.46	\$0.35	\$0.30	\$0.04	\$0.25	\$1.99	
2 Spray	1 ac	\$0.59	\$0.46	\$0.35	\$0.30	\$0.04	\$0.25	\$1.99	
3 Spray	1 ac	\$0.59	\$0.46	\$0.35	\$0.30	\$0.04	\$0.25	\$1.99	
4 No-Till Drill	1 ac	\$1.92	\$3.60	\$0.28	\$2.41	\$1.55	\$2.19	\$11.95	
5 Spray	0.5 ac	\$0.30	\$0.24	\$0.18	\$0.16	\$0.01	\$0.13	\$1.02	
6 Spray	Custom								
7 Combine	1 ac	\$1.84	\$5.84	\$2.30	\$0.13	\$9.40	\$1.37	\$20.88	
8 Cart	100 bu	\$0.50	\$1.06	\$0.07	\$0.38	\$0.48	\$0.64	\$3.13	
9 Truck	Custom								
Total for Field Operations		\$6.33	\$12.12	\$3.88	\$3.98	\$11.56	\$5.08	\$42.95	
Wage \$12.00/hr	Elec \$0.072/kwh								
Diesel \$4.00/gal									
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =	Total \$/Acre			
Glyphosate w/Surf	Herbicide	1	100%	32 oz	0.35/oz	\$11.20			
21-0-0-26s	Spray Grade	1	100%	2 lb	0.53/lb	\$1.06			
AAtrex 4L	Herbicide	2	100%	1 qt	4.75/qt	\$4.75			
Gramoxone Inteon	Herbicide	2	100%	1.5 pt	4.75/pt	\$7.13			
28-0-0	Fertilizer	3	100%	120 lb N	0.82/lb N	\$98.40			
Bicep II Magnum	Herbicide	3	100%	2.1 qt	11.50/qt	\$24.15			
10-34-0	Fertilizer	4	100%	6 gal	6.84/gal	\$41.04			
Sorghum Safened/Insect	Seed	4	100%	4 lb	3.20/lb	\$12.80			
Peak	Herbicide	5	50%	0.75 oz	17.00/oz	\$6.38			
Crop Oil Concentrate	Herbicide	5	50%	2 pt	1.13/pt	\$1.13			
Aerial Spray	Custom	6	15%	1 ac	7.00/ac	\$1.05			
Lorsban 4 E	Insecticide*	6	15%	1.5 pt	5.25/pt	\$1.18			
Haul Grain bu	Custom	9	100%	100 bu	0.15/bu	\$15.00			
Total Materials & Services						\$225.27			
*Treating greenbugs one year in 10, chinch bugs one in 15									
Total listed costs for Field Operations and Materials & Services								\$268.22	
Cost per bushel for Field Operations and Materials & Service								\$2.68	

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 24. Grain Sorghum, Pivot Irrigated, 800 GPM 35 PSI, 6 acre-inches
No-Till, Limited Irrigation 160 bu/ac yield goal
145 bu/ac Grain Sorghum**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate
				+Pwr	+Imp	+Pwr	+Imp		
1 Spray	1 ac	\$0.98	\$0.50	\$0.58	\$0.19	\$0.05	\$0.22	\$2.52	
2 Apply Anhydrous	1 ac	\$1.68	\$3.24	\$0.24	\$0.73	\$1.49	\$0.71	\$8.09	
3 Spray	1 ac	\$0.98	\$0.50	\$0.58	\$0.19	\$0.05	\$0.22	\$2.52	
4 Plant	1 ac	\$2.20	\$1.82	\$0.30	\$0.65	\$1.71	\$2.52	\$9.20	
5 Spray	1 ac	\$0.98	\$0.50	\$0.58	\$0.19	\$0.05	\$0.22	\$2.52	
6 Spray	Custom								
7 PivotD 125' Lift	6 AI	\$2.42	\$49.88	\$2.44	\$2.29	\$4.96	\$9.89	\$71.88	
8 Combine	1 ac	\$1.84	\$5.84	\$2.30	\$0.13	\$9.40	\$1.37	\$20.88	
9 Cart	145 bu	\$0.77	\$1.66	\$0.12	\$0.58	\$0.75	\$0.99	\$4.87	
10 Truck	Custom								
Total for Field Operations		\$11.85	\$63.94	\$7.14	\$4.95	\$18.46	\$16.14	\$122.48	
Wage \$12.00/hr	Elec \$0.072/kwh								
Diesel \$4.00/gal									
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =	Total \$/Acre			
Glyphosate w/Surf	Herbicide	1	100%	32 oz	0.35/oz	\$11.20			
21-0-0-26s	Spray Grade	1	100%	2 lb	0.53/lb	\$1.06			
82-0-0	Fertilizer	2	100%	170 lb N	0.67/lb N	\$113.90			
Bicep II Magnum	Herbicide	3	100%	2 qt	11.50/qt	\$23.00			
10-34-0	Fertilizer	4	100%	6 gal	6.84/gal	\$41.04			
Sorghum Safened/Insect	Seed	4	100%	4 lb	3.20/lb	\$12.80			
Peak	Herbicide	5	100%	0.75 oz	17.00/oz	\$12.75			
Crop Oil Concentrate	Herbicide	5	100%	2 pt	1.13/pt	\$2.26			
Aerial Spray	Custom	6	15%	1 ac	7.00/ac	\$1.05			
Lorsban 4 E	Insecticide*	6	15%	1.5 pt	5.25/pt	\$1.18			
Haul Grain	Custom	10	100%	145 bu	0.15/bu	\$21.75			
Total Materials & Services						\$241.99			
*Treating greenbugs one year in 10, chinch bugs one in 15									
Total listed costs for Field Operations and Materials & Services								\$364.47	
Cost per bushel for Field Operations and Materials & Service								\$2.51	

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 25. Grass, Pivot Irrigated, 800 GPM 35PSI
Fall Establishment**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate
				+Pwr	+Imp	+Pwr	+Imp		
1 Disc	1 ac	\$1.21	\$3.04	\$0.19	\$1.00	\$1.07	\$1.03	\$7.54	
2 Field Cultivation	1 ac	\$0.62	\$1.54	\$0.10	\$0.57	\$0.53	\$0.58	\$3.94	
3 Roll	1 ac	\$1.33	\$2.20	\$1.27	\$0.36	\$0.11	\$2.19	\$7.46	
4 Grass Drill	1 ac	\$2.69	\$3.50	\$1.80	Rent	\$0.16	Rent	\$8.15	
5 PivotD 125' Lift	2 Al	\$0.81	\$16.62	\$0.81	\$0.76	\$1.66	\$3.29	\$23.95	
6 Spread Fertilizer	1 ac	\$0.94	\$1.10	\$0.56	Incl	\$0.05	Incl	\$2.65	
Total for Field Operations		\$7.60	\$28.00	\$4.73	\$2.69	\$3.58	\$7.09	\$53.69	
Wage \$12.00/hr	Elec \$0.072/kwh								
Diesel \$4.00/gal									
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =		Total \$/Acre		
Grass Seed	Seed	4	100%	60 lb	3.25/lb		\$195.00		
Grass Drill	Rental	4	100%	1 ac	7.00/ac		\$7.00		
11-52-0	Fertilizer	6	100%	60 lb	0.65/lb		\$39.00		
Total for Materials & Services							\$241.00		
Total listed costs for Field Operations and Materials & Services								\$294.69	

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 26. Grass Hay, Rainfed
Large Round
2.2 ton/ac Grass Hay**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate
				+Pwr	+Imp	+Pwr	+Imp		
1 Spread, Fertilizer	1 ac	\$0.94	\$1.10	\$0.56	Incl	\$0.05	Incl	\$2.65	
2 Swath/Condition Hay	1 ac	\$1.49	\$2.50	\$0.99	\$1.27	\$0.52	\$1.44	\$8.21	
3 Lg Rd Bale	2.2 ton	\$2.18	\$1.90	\$0.32	\$0.85	\$1.76	\$6.37	\$13.38	
4 Move Lg Rd	2.2 ton	\$2.37	\$2.86	\$0.32	\$0.02	\$1.76	\$0.21	\$7.54	
Total for Field Operations		\$6.98	\$8.36	\$2.19	\$2.14	\$4.09	\$8.02	\$31.78	
Wage \$12.00/hr	Elec \$0.072/kwh								
Diesel \$4.00/gal									
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =		Total \$/Acre		
46-0-0	Fertilizer	1	100%	40 lb N	0.90/lb N		\$36.00		
11-52-0	Fertilizer	1	100%	15 lb	0.65/lb		\$9.75		
Twine Lg Rd	Other	3	100%	2.7 bale	0.70/bale		\$1.89		
Total Materials & Services							\$47.64		
Total listed costs for Field Operations and Materials & Services								\$79.42	
Cost per ton for Field Operations and Materials & Service								\$36.10	

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 27. Oats, Rainfed
No-Till, 90 bu/ac Yield Goal
80 bu/ac Oats**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate
				+Pwr	+Imp	+Pwr	+Imp		
1 Spray Liquid Fertilizer	1 ac	\$0.98	\$0.50	\$0.58	\$0.19	\$0.05	\$0.22	\$2.52	
2 No-Till Drill	1 ac	\$1.92	\$3.60	\$0.28	\$2.41	\$1.55	\$2.19	\$11.95	
3 Spray	1 ac	\$0.59	\$0.46	\$0.35	\$0.30	\$0.04	\$0.25	\$1.99	
4 Combine	1 ac	\$1.84	\$5.84	\$2.30	\$0.13	\$9.40	\$1.37	\$20.88	
5 Truck	Custom								
6 Large Round Bale	1.5 ton	\$1.49	\$1.30	\$0.22	\$0.58	\$1.20	\$4.34	\$9.13	
7 Move Large Bale	1.5 ton	\$1.62	\$1.96	\$0.22	\$0.02	\$1.20	\$0.15	\$5.17	
Total for Field Operations		\$8.44	\$13.66	\$3.95	\$3.63	\$13.44	\$8.52	\$51.64	
Wage \$12.00/hr	Elec \$0.072/kwh								
Diesel \$4.00/gal									
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =	Total \$/Acre			
28-0-0	Fertilizer	1	100%	100 lb N	0.82/lb N	\$82.00			
Oats	Seed	2	100%	2 bu	9.60/bu	\$19.20			
10-34-0	Fertilizer	2	100%	6 gal	6.84/gal	\$41.04			
Aim	Herbicide	3	100%	0.5 oz	7.00/oz	\$3.50			
2,4-D Ester 4#	Herbicide	3	100%	0.5 pt	2.25/pt	\$1.13			
NIS	Herbicide	3	100%	6 oz	0.20/oz	\$1.20			
Haul Grain bu	Custom	5	100%	80 bu	0.15/bu	\$12.00			
Twine Large Bale	Other	6	100%	2 bale	0.59/bale	\$1.18			
Total for Materials & Services						\$161.25			
Total listed costs for Field Operations and Materials & Services								\$212.89	
Cost per Cwt for Field Operations and Materials & Service								\$2.66	

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 28. Pasture, Pivot Irrigated 800 GPM 35PSI, 18 acre-inches
Grazing
11 AUM/ac Pasture**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate
				+Pwr	+Imp	+Pwr	+Imp		
1 PivotD 125' Lift	18 Al	\$7.26	\$149.62	\$7.33	\$6.85	\$14.88	\$29.67	\$215.61	
Total for Field Operations		\$7.26	\$149.62	\$7.33	\$6.85	\$14.88	\$29.67	\$215.61	
Wage \$12.00/hr	Elec \$0.072/kwh								
Diesel \$4.00/gal									
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =		Total \$/Acre		
28-0-0	Fertilizer	1	100%	220 lb N	0.82/lb N		\$180.40		
Electricity Fence/Water	Other		100%	1 ac	2.00/ac		\$2.00		
Fence/Water Repairs	Other		100%	1 ac	2.00/ac		\$2.00		
Move Cattle	Other		100%	1 hr	12.00/hr		\$12.00		
Total for Materials & Services							\$196.40		
Total listed costs for Field Operations and Materials & Services								\$412.01	
Cost per AUM for Field Operations and Materials & Service								\$37.46	

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

Table 29. Millet, Rainfed

Year 2009

**Stubble Mulch Fallow, fb Wheat, Two crops in Three Years, 22 cwt yield goal
22 cwt/ac Millet**

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate
				+Pwr	+Imp	+Pwr	+Imp		
1 Spray	1 ac	\$0.98	\$0.50	\$0.58	\$0.19	\$0.05	\$0.22	\$2.52	
2 Fallow Master	1 ac	\$0.62	\$1.62	\$0.24	\$0.59	\$0.50	\$1.27	\$4.84	
3 Rod Weeder	1 ac	\$1.00	\$1.64	\$0.27	\$0.74	\$0.51	\$1.36	\$5.52	
4 Spray Liquid Fertilizer	1 ac	\$0.98	\$0.50	\$0.58	\$0.19	\$0.05	\$0.22	\$2.52	
5 Drill	1 ac	\$0.82	\$1.90	\$0.12	\$2.83	\$0.67	\$3.56	\$9.90	
6 Spray	1 ac	\$0.98	\$0.50	\$0.58	\$0.19	\$0.05	\$0.22	\$2.52	
7 Windrow Grain	1 ac	\$1.39	\$1.38	\$0.77	\$0.19	\$0.41	\$2.70	\$6.84	
8 Combine	1 ac	\$2.35	\$6.26	\$2.93	\$0.27	\$11.98	\$0.81	\$24.60	
9 Truck	Custom								
Total for Field Operations		\$9.12	\$14.30	\$6.07	\$5.19	\$14.22	\$10.36	\$59.26	
Wage \$12.00/hr	Elec \$0.072/kwh								
Diesel \$4.00/gal									
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =		Total \$/Acre		
Glyphosate w/Surf	Herbicide	1	100%	32 oz	0.35/oz		\$11.20		
21-0-0-26s	Spray Grade	1	100%	2 lb	0.53/lb		\$1.06		
28-0-0	Fertilizer	4	100%	45 lb N	0.82/lb N		\$36.90		
Millet	Seed	5	100%	12 lb	0.60/lb		\$7.20		
2,4-D Amine	Herbicide	6	100%	0.75 pt	1.90/pt		\$1.43		
Dicamba	Herbicide	6	100%	0.5 oz	0.60/oz		\$0.30		
Haul Grain cwt	Custom	9	100%	22 cwt	0.25/cwt		\$5.50		
Total for Materials & Services		150,000 seeding rate						\$63.59	
Total listed costs for Field Operations and Materials & Services								\$122.85	
Cost per Cwt for Field Operations and Materials & Service								\$5.58	

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 30. Soybeans, Rainfed
Tilled Seedbed, Roundup Ready®
38 bu/ac Soybeans**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate	
				+Pwr	+Imp	+Pwr	+Imp			
1 Disc	1 ac	\$1.21	\$3.04	\$0.19	\$1.00	\$1.07	\$1.03	\$7.54		
2 Field Cultivation	1 ac	\$0.62	\$1.54	\$0.10	\$0.57	\$0.53	\$0.58	\$3.94		
3 Spray	1 ac	\$0.59	\$0.46	\$0.35	\$0.30	\$0.04	\$0.25	\$1.99		
4 Plant	1 ac	\$2.20	\$1.82	\$0.30	\$0.65	\$1.71	\$2.52	\$9.20		
5 Spray	1 ac	\$0.98	\$0.50	\$0.58	\$0.19	\$0.05	\$0.22	\$2.52		
6 Spray	Custom									
7 Combine	1 ac	\$2.35	\$7.44	\$2.93	\$0.45	\$11.98	\$1.05	\$26.20		
8 Truck	Custom									
Total for Field Operations		\$7.95	\$14.80	\$4.45	\$3.16	\$15.38	\$5.65	\$51.39		
Wage \$12.00/hr	Elec \$0.072/kwh									
Diesel \$4.00/gal	No warranty on reduced rate herbicide budgeted here.									
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =	Total \$/Acre				
Authority	Herbicide	3	100%	5.3 oz	2.35/oz	\$12.46				
Prowl H ₂ O	Herbicide	3	100%	1.4 oz	0.30/oz	\$0.42				
RR Soybeans	Seed	4	100%	1.2 bag	43.00/bag	\$51.60				
Glyphosate w/ Surf	Herbicide	5	100%	32 oz	0.35/oz	\$11.20				
21-0-0-26s	Spray Grade	5	100%	2 lb	0.53/lb	\$1.06				
Aerial Spray	Custom	6	20%	1 ac	7.00/ac	\$1.40				
Warrior T	Insecticide	6	20%	3.2 oz	2.81/oz	\$1.80				
Haul Grain bu	Custom	8	100%	38 bu	0.15/bu	\$5.70				
Total for Materials & Services		NOTE: 150,000 seeding rate						\$85.64		
Total listed costs for Field Operations and Materials & Services								\$137.03		
Cost per bushel for Field Operations and Materials & Service								\$3.61		

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 31. Soybeans, Rainfed
No-Till, Roundup Ready® After Corn
42 bu/ac Soybeans**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate	
				+Pwr	+Imp	+Pwr	+Imp			
1 Spray	1 ac	\$0.98	\$0.50	\$0.58	\$0.20	\$0.04	\$0.22	\$2.52		
2 Plant No-till	1 ac	\$2.45	\$2.51	\$0.34	\$1.28	\$1.89	\$1.89	\$10.36		
3 Spray	1 ac	\$0.98	\$0.50	\$0.58	\$0.20	\$0.04	\$0.22	\$2.52		
4 Spray	Custom									
5 Combine	1 ac	\$2.34	\$7.34	\$2.93	\$0.45	\$11.98	\$1.06	\$26.10		
6 Truck	Custom									
Total for Field Operations		\$6.75	\$10.85	\$4.43	\$2.13	\$13.95	\$3.39	\$41.50		
Wage \$12.00/hr	Elec \$0.072/kwh									
Diesel \$4.00/gal										
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =		Total \$/Acre			
Pursuit Plus	Herbicide	1	100%	1.67 pt	8.25/pt		\$13.78			
RR Soybeans	Seed	2	100%	1 bag	43.00/bag		\$43.00			
Glyphosate w/Surf	Herbicide	3	100%	32 oz	0.35/oz		\$11.20			
21-0-0-26S	Spray Grade	3	100%	2 lb	0.53/lb		\$1.06			
Aerial Spray	Custom	4	20%	1 ac	7.00/ac		\$1.40			
Warrior T	Insecticide*	4	20%	3.2 oz	2.81/oz		\$1.80			
Haul Grain bu	Custom	6	100%	42 bu	0.15/bu		\$6.30			
Total Materials & Services		150,000 seeding rate						\$78.54		
*Insecticide for bean leaf beetle										
Total listed costs for Field Operations and Materials & Services								\$120.04		
Cost per bushel for Field Operations and Materials & Service								\$2.86		

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 32. Soybeans, Rainfed
No-Till, Roundup Ready® Continuous
38 bu/ac Soybeans**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate
				+Pwr	+Imp	+Pwr	+Imp		
1 Spray	1 ac	\$0.98	\$0.50	\$0.58	\$0.20	\$0.04	\$0.22	\$2.52	
2 Plant No-till	1 ac	\$2.45	\$2.51	\$0.34	\$1.28	\$1.89	\$1.89	\$10.36	
3 Spray	1 ac	\$0.98	\$0.50	\$0.58	\$0.20	\$0.04	\$0.22	\$2.52	
4 Spray	Custom								
5 Combine	1 ac	\$2.34	\$7.34	\$2.93	\$0.45	\$11.98	\$1.06	\$26.10	
6 Truck	Custom								
Total for Field Operations		\$6.75	\$10.85	\$4.43	\$2.13	\$13.95	\$3.39	\$41.50	
Wage \$12.00/hr	Elec \$0.072/kwh								
Diesel \$4.00/gal									
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =	Total \$/Acre			
Pursuit Plus	Herbicide	1	100%	1.67 pt	8.25/pt	\$13.78			
RR Soybeans	Seed	2	100%	1 bag	43.00/bag	\$43.00			
Glyphosate w/Surf	Herbicide	3	100%	32 oz	0.35/oz	\$11.20			
21-0-0-26S	Spray Grade	3	100%	2 lb	0.53/lb	\$1.06			
Aerial Spray	Custom	4	20%	1 ac	7.00/ac	\$1.40			
Warrior T	Insecticide*	4	20%	3.2 oz	2.81/oz	\$1.80			
Haul Grain bu	Custom	6	100%	38 bu	0.15/bu	\$5.70			
Total for Materials & Services		150,000 seeding rate				\$77.94			
*Insecticide for bean leaf beetle									
Total listed costs for Field Operations and Materials & Services								\$119.44	
Cost per bushel for Field Operations and Materials & Service								\$3.14	

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 33. Soybeans, Pivot Irrigated, 800 GPM 35PSI, 9 acre-inches
Tilled Seedbed, Roundup Ready® After Corn
60 bu/ac Soybeans**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate	
				+Pwr	+Imp	+Pwr	+Imp			
1 Disc	1 ac	\$1.21	\$3.04	\$0.19	\$1.00	\$1.07	\$1.03	\$7.54		
2 Field Cultivation	1 ac	\$0.62	\$1.54	\$0.10	\$0.57	\$0.53	\$0.58	\$3.94		
3 Spray	1 ac	\$0.59	\$0.46	\$0.35	\$0.30	\$0.04	\$0.25	\$1.99		
4 Plant	1 ac	\$2.20	\$1.82	\$0.30	\$0.65	\$1.71	\$2.52	\$9.20		
5 PivotD 125' Lift	9 Al	\$3.63	\$74.80	\$3.67	\$3.42	\$7.44	\$14.84	\$107.80		
6 Spray	1 ac	\$0.98	\$0.50	\$0.58	\$0.19	\$0.05	\$0.22	\$2.52		
7 Spray	Custom									
8 Combine	1 ac	\$2.35	\$7.44	\$2.93	\$0.45	\$11.98	\$1.05	\$26.20		
9 Truck	Custom									
Total for Field Operations		\$11.58	\$89.60	\$8.12	\$6.58	\$22.82	\$20.49	\$159.19		
Wage \$12.00/hr	Elec \$0.072/kwh									
Diesel \$4.00/gal	No warranty on reduced rate herbicide budgeted here.									
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =	Total \$/Acre				
Authority	Herbicide	3	100%	3.6 oz	2.35/oz	\$8.46				
Prowl H ₂ O	Herbicide	3	100%	1.4 oz	0.30/oz	\$0.42				
RR Soybeans	Seed	4	100%	1 bag	43.00/bag	\$43.00				
Glyphosate w/Surf	Herbicide	6	100%	32 oz	0.35/oz	\$11.20				
21-0-0-26s	Spray Grade	6	100%	2 lb	0.53/lb	\$1.06				
Aerial Spray	Custom	7	20%	1 ac	7.00/ac	\$1.40				
Warrior T	Insecticide	7	20%	3.2 oz	2.81/oz	\$1.80				
Haul Grain bu	Custom	9	100%	60 bu	0.15/bu	\$9.00				
Total for Materials & Services		NOTE: 150,000 seeding rate						\$76.34		
Total listed costs for Field Operations and Materials & Services								\$235.53		
Cost per bushel for Field Operations and Materials & Service								\$3.93		

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 34. Soybeans, Gravity Irrigated, 1,000 GPM 10PSI, 12 acre-inches
Ridge-Till, RR After RR Corn
60 bu/ac Soybeans**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate
				+Pwr	+Imp	+Pwr	+Imp		
1 Spray	1 ac	\$0.59	\$0.46	\$0.35	\$0.30	\$0.04	\$0.25	\$1.99	
2 Ridge Plant	1 ac	\$2.46	\$2.54	\$0.34	\$1.27	\$1.89	\$1.89	\$10.39	
3 Ridge Cultivation	1 ac	\$2.03	\$3.28	\$0.32	\$0.80	\$1.76	\$0.76	\$8.95	
4 Ridge Cultivation	1 ac	\$2.03	\$3.28	\$0.32	\$0.80	\$1.76	\$0.76	\$8.95	
5 Pipe D125' Lift	7 Al	\$8.47	\$40.96	\$2.28	\$0.76	\$4.44	\$1.97	\$58.88	
6 Spray	0.5 ac	\$0.30	\$0.24	\$0.18	\$0.16	\$0.01	\$0.13	\$1.02	
7 Spray	Custom								
8 Combine	1 ac	\$2.35	\$7.44	\$2.93	\$0.45	\$11.98	\$1.05	\$26.20	
9 Truck	Custom								
Total for Field Operations		\$18.23	\$58.20	\$6.72	\$4.54	\$21.88	\$6.81	\$116.38	
Wage \$12.00/hr	Elec \$0.072/kwh								
Diesel \$4.00/gal									
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =	Total \$/Acre			
2,4-D Ester 4#	Herbicide	1	20%	1.5 pt	2.38/pt	\$0.71			
Select Max	Herbicide	2	40%	6 oz	1.09/oz	\$2.62			
Crop Oil Concentrate	Herbicide	2	40%	2 pt	1.13/pt	\$0.90			
RR Soybeans	Seed	2	100%	1 bag	43.00/bag	\$43.00			
Glyphosate w/Surf	Herbicide	6	50%	32 oz	0.35/oz	\$5.60			
21-0-0-26s	Spray Grade	6	50%	2 lb	0.53/lb	\$0.53			
Aerial Spray	Custom	7	20%	1 ac	7.00/ac	\$1.40			
Warrior T	Insecticide	7	20%	3.2 oz	2.81/oz	\$1.80			
Haul Grain bu	Custom	9	100%	60 bu	0.15/bu	\$9.00			
Total for Materials & Services		NOTE: 150,000 seeding rate						\$65.56	
Total listed costs for Field Operations and Materials & Services								\$181.94	
Cost per bushel for Field Operations and Materials & Service								\$3.03	

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 35. Soybeans, Pivot Irrigated, 800 GPM 35 PSI, 6 acre-inches
No-Till Narrow Row, Roundup Ready® After Corn
63 bu/ac Soybeans**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate	
				+Pwr	+Imp	+Pwr	+Imp			
1 Spray	1 ac	\$0.98	\$0.50	\$0.58	\$0.20	\$0.04	\$0.22	\$2.52		
2 Plant Narrow Row	1 ac	\$3.21	\$2.51	\$0.34	\$2.10	\$1.89	\$3.14	\$13.19		
3 Spray	1 ac	\$0.98	\$0.50	\$0.58	\$0.20	\$0.04	\$0.22	\$2.52		
4 Spray	0.5 ac	\$0.50	\$0.26	\$0.29	\$0.10	\$0.02	\$0.11	\$1.28		
5 Spray	Custom									
6 PivotD 125' Lift	6 AI	\$2.42	\$49.19	\$2.44	\$2.89	\$4.96	\$9.88	\$71.78		
7 Combine	1 ac	\$2.34	\$7.34	\$2.97	\$0.45	\$11.99	\$1.06	\$26.15		
8 Truck	Custom									
Total for Field Operations		\$10.43	\$60.30	\$7.20	\$5.94	\$18.94	\$14.63	\$117.44		
Wage \$12.00/hr	Elec \$0.072/kwh									
Diesel \$4.00/gal										
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =	Total \$/Acre				
Glyphosate w/Surf	Herbicide	1	100%	32 oz	0.35/oz	\$11.20				
21-0-0-26s	Spray Grade	1	100%	1.7 lb	0.53/lb	\$0.90				
RR Soybeans	Seed	2	100%	1.2 bag	43.00/bag	\$51.60				
Pursuit Plus	Herbicide	3	100%	1.67 pt	8.25/pt	\$13.78				
Prowl H2O	Herbicide	3	100%	1.6 pt	4.75/pt	\$7.60				
Glyphosate w/Surf	Herbicide	4	50%	32 oz	0.35/oz	\$5.60				
21-0-0-26S	Spray Grade	4	50%	2 lb	0.53/lb	\$0.53				
Aerial Spray	Custom	5	20%	1 ac	7.00/ac	\$1.40				
Warrior T	Insecticide*	5	20%	3.2 oz	2.81oz	\$1.80				
Haul Grain bu	Custom	8	100%	60 bu	0.15/bu	\$9.00				
Total for Materials & Services		180,000 seeds per acre						\$103.41		
*Insecticide for bean leaf beetle										
Total listed costs for Field Operations and Materials & Services								\$220.85		
Cost per bushel for Field Operations and Materials & Service								\$3.51		

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 36. Soybeans, Pivot Irrigated, 800 GPM 35 PSI, 6 acre-inches
No-Till Narrow Row, Continuous
57 bu/ac Soybeans**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate	
				+Pwr	+Imp	+Pwr	+Imp			
1 Spray	1 ac	\$0.98	\$0.50	\$0.58	\$0.20	\$0.04	\$0.22	\$2.52		
2 Plant Narrow Row	1 ac	\$3.21	\$2.51	\$0.34	\$2.10	\$1.89	\$3.14	\$13.19		
3 Spray	1 ac	\$0.98	\$0.50	\$0.58	\$0.20	\$0.04	\$0.22	\$2.52		
4 Spray	0.5 ac	\$0.50	\$0.26	\$0.29	\$0.10	\$0.02	\$0.11	\$1.28		
5 Spray	Custom									
6 PivotD 125' Lift	6 AI	\$2.42	\$49.19	\$2.44	\$2.89	\$4.96	\$9.88	\$71.78		
7 Combine	1 ac	\$2.34	\$7.34	\$2.97	\$0.45	\$11.99	\$1.06	\$26.15		
8 Truck	Custom									
Total for Field Operations		\$10.43	\$60.30	\$7.20	\$5.94	\$18.94	\$14.63	\$117.44		
Wage \$12.00/hr	Elec \$0.072/kwh									
Diesel \$4.00/gal										
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =	Total \$/Acre				
Glyphosate w/Surf	Herbicide	1	100%	32 oz	0.35/oz	\$11.20				
21-0-0-26s	Spray Grade	1	100%	1.7 lb	0.53/lb	\$0.90				
RR Soybeans	Seed	2	100%	1.2 bag	43.00/bag	\$51.60				
Pursuit Plus	Herbicide	3	100%	1.67 pt	8.25/pt	\$13.78				
Prowl H2O	Herbicide	3	100%	1.6 pt	4.75/pt	\$7.60				
Glyphosate w/Surf	Herbicide	4	50%	32 oz	0.35/oz	\$5.60				
21-0-0-26S	Spray Grade	4	50%	2 lb	0.53/lb	\$0.53				
Aerial Spray	Custom	5	20%	1 ac	7.00/ac	\$1.40				
Warrior T	Insecticide*	5	20%	3.2 oz	2.81oz	\$1.80				
Haul Grain bu	Custom	8	100%	57 bu	0.15/bu	\$8.55				
Total for Materials & Services		180,000 seeds per acre						\$102.96		
*Insecticide for bean leaf beetle										
Total listed costs for Field Operations and Materials & Services								\$220.40		
Cost per bushel for Field Operations and Materials & Service								\$3.87		

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 37. Soybeans, Pivot Irrigated, 800 GPM 35PSI, 6 acre-inches
No-till Drilled, Roundup Ready® After Corn
63 bu/ac Soybeans**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate
				+Pwr	+Imp	+Pwr	+Imp		
1 Spray	1 ac	\$0.98	\$0.50	\$0.58	\$0.19	\$0.05	\$0.22	\$2.52	
2 No-Till Drill	1 ac	\$1.92	\$3.60	\$0.28	\$2.41	\$1.55	\$2.19	\$11.95	
3 Spray	1 ac	\$0.98	\$0.50	\$0.58	\$0.19	\$0.05	\$0.22	\$2.52	
4 Spray	0.5 ac	\$0.50	\$0.26	\$0.29	\$0.10	\$0.02	\$0.11	\$1.28	
5 Spray	Custom								
6 PivotD 125' Lift	6 Al	\$2.42	\$49.88	\$2.44	\$2.29	\$4.96	\$9.89	\$71.88	
7 Combine	1 ac	\$2.35	\$7.44	\$2.93	\$0.45	\$11.98	\$1.05	\$26.20	
8 Truck	Custom								
Total for Field Operations		\$9.15	\$62.18	\$7.10	\$5.63	\$18.61	\$13.46	\$116.35	
Wage \$12.00/hr	Elec \$0.072/kwh								
Diesel \$4.00/gal	No warranty on reduced rate herbicide budgeted here								
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =			Total \$/Acre	
Glyphosate w/Surf	Herbicide	1	100%	32 oz	0.35/oz			\$11.20	
21-0-0-26s	Spray Grade	1	100%	2 lb	0.53/lb			\$1.06	
RR Soybeans	Seed	2	100%	1.2 bag	43.00/bag			\$51.60	
Authority	Herbicide	3	100%	4 oz	2.35/oz			\$9.40	
Prowl H ₂ O	Herbicide	3	100%	1.4 oz	0.30/oz			\$0.42	
Glyphosate w/Surf	Herbicide	4	50%	32 oz	0.35/oz			\$5.60	
21-0-0-26s	Spray Grade	4	50%	2 lb	0.53/lb			\$0.53	
Aerial Spray	Custom	5	20%	1 ac	7.00/ac			\$1.40	
Warrior T	Insecticide	5	20%	3.2 oz	2.81/oz			\$1.80	
Haul Grain bu	Custom	8	100%	63 bu	0.15/bu			\$9.45	
Total for Materials & Services		NOTE: 180,000 seeds per acre						\$92.46	
Total listed costs for Field Operations and Materials & Services								\$208.81	
Cost per bushel for Field Operations and Materials & Service								\$3.31	

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 38. Sugar Beets Roundup Ready®, Canal Irrigated, 20 acre-inches
One Pass Tillage
23 tons/ac Sugar Beets**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate
				+Pwr	+Imp	+Pwr	+Imp		
1 Disc	1 ac	\$1.21	\$3.04	\$0.19	\$1.00	\$1.07	\$1.03	\$7.54	
2 Spray Liquid Fertilizer	1 ac	\$0.98	\$0.50	\$0.58	\$0.19	\$0.05	\$0.22	\$2.52	
3 Spray	Custom								
4 Till Plant Beets	1 ac	\$1.84	\$5.08	\$0.64	\$0.62	\$1.33	\$4.65	\$14.16	
5 Hoe	1 ac	\$0.80	\$0.94	\$0.12	\$0.06	\$0.70	\$0.38	\$3.00	
6 Row Crop Cultivation	1 ac	\$2.03	\$1.88	\$1.31	\$0.35	\$0.69	\$0.34	\$6.60	
7 Hill/Ditch	1 ac	\$2.03	\$3.28	\$0.32	\$0.80	\$1.76	\$0.76	\$8.95	
8 Spray	Custom								
9 Ditch Irrigation	8 Al	\$16.46						\$16.46	
10 Spray	Custom								
11 Spray	Custom								
12 Top Beets	1 ac	\$2.28	\$2.72	\$0.63	\$1.43	\$1.17	\$3.21	\$11.44	
13 Lift Beets	1 ac	\$2.58	\$4.84	\$0.64	\$15.15	\$1.20	\$10.77	\$35.18	
14 Truck	Custom								
15 Subsoil	1 ac	\$1.60	\$4.00	\$0.36	\$0.48	\$2.25	\$3.35	\$12.04	
Total for Field Operations		\$31.81	\$26.28	\$4.79	\$20.08	\$10.22	\$24.71	\$117.89	
Wage \$12.00/hr	Elec \$0.072/kwh								
Diesel \$4.00/gal									
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =	Total \$/Acre			
10-34-0	Fertilizer	2	100%	13.4 gal	6.84/gal	\$91.66			
28-0-0	Fertilizer	2	100%	105 lb N	0.82/lb N	\$86.10			
Spray	Custom	3,8,11	300%	1 ac	5.50/ac	\$16.50			
Glyphosate w/Surf	Herbicide	3	100%	32 oz	0.35/oz	\$11.20			
21-0-0-26s	Spray Grade	3	100%	2 lb	0.53/lb	\$1.06			
Sugar Beets RR Poncho	Seed	4	100%	1 ac	130.00/ac	\$130.00			
Glyphosate w/Surf	Herbicide	8	100%	32 oz	0.35/oz	\$11.20			
21-0-0-26s	Spray Grade	8	100%	2 lb	0.53/lb	\$1.06			
Water Charge	Other	9	100%	1 ac	35.00/ac	\$35.00			
Glyphosate w/Surf	Herbicide	10	100%	32 oz	.35/oz	\$11.20			
21-0-0-26s	Spray Grade	10	100%	2 lb	0.53/lb	\$1.06			
Aerial Spray	Custom	11	100%	1 ac	\$7.00/ac	\$7.00			
Headline	Fungicide	11	100%	5 oz	2.33/oz	\$11.65			
Haul Beets	Custom	14	100%	22 ton	3.00/ton	\$66.00			
Total for Materials & Services						\$480.69			
Total listed costs for Field Operations and Materials & Services								\$598.58	
Cost per ton for Field Operations and Materials & Service								\$26.03	

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 39. Sugar Beets Roundup Ready®, Pivot Irrigated, 800 GPM 35PSI, 16 acre-inches
One Pass Tillage
23 tons/ac Sugar Beets
Year 2009**

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate
				+Pwr	+Imp	+Pwr	+Imp		
1 Disc	1 ac	\$1.21	\$3.04	\$0.19	\$1.00	\$1.07	\$1.03	\$7.54	
2 Spray Liquid Fertilizer	1 ac	\$0.98	\$0.50	\$0.58	\$0.19	\$0.05	\$0.22	\$2.52	
3 Spray	Custom								
4 Till Plant Beets	1 ac	\$1.84	\$5.08	\$0.64	\$0.62	\$1.33	\$4.65	\$14.16	
6 Row Crop Cultivation	1 ac	\$2.03	\$1.88	\$1.31	\$0.35	\$0.69	\$0.34	\$6.60	
8 Spray	Custom								
10 PivotD 125' Lift	8 AI	\$3.23	\$66.50	\$3.26	\$3.04	\$6.62	\$13.19	\$95.84	
11 Spray	Custom								
12 Spray	Custom								
13 Top Beets	1 ac	\$2.28	\$2.72	\$0.63	\$1.43	\$1.17	\$3.21	\$11.44	
14 Lift Beets	1 ac	\$2.58	\$4.84	\$0.64	\$15.15	\$1.20	\$10.77	\$35.18	
15 Truck	Custom								
16 Subsoil	1 ac	\$1.60	\$4.00	\$0.36	\$0.48	\$2.25	\$3.35	\$12.04	
Total for Field Operations		\$15.75	\$88.56	\$7.61	\$22.26	\$14.38	\$36.76	\$185.32	
Wage \$12.00/hr	Elec \$0.072/kwh								
Diesel \$4.00/gal									
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =	Total \$/Acre			
10-34-0	Fertilizer	2	100%	13.4 gal	6.84/gal	\$91.66			
28-0-0	Fertilizer	2	100%	105 lb N	0.82/lb N	\$86.10			
Spray	Custom	3,8,11	300%	1 ac	5.50/ac	\$16.50			
Glyphosate w/Surf	Herbicide	3	100%	32 oz	0.35/oz	\$11.20			
21-0-0-26s	Spray Grade	3	100%	2 lb	0.53/lb	\$1.06			
Sugar Beets RR Poncho	Seed	4	100%	1 ac	130.00/ac	\$130.00			
Glyphosate w/Surf	Herbicide	8	100%	32 oz	0.35/oz	\$11.20			
21-0-0-26s	Spray Grade	8	100%	2 lb	0.53/lb	\$1.06			
Glyphosate w/Surf	Herbicide	11	100%	32 oz	0.35/oz	\$11.20			
21-0-0-26s	Spray Grade	11	100%	2 lb	0.53/lb	\$1.06			
Headline	Custom	12	100%	5 oz	2.33/oz	\$11.65			
Aerial Spray	Custom	12	100%	1 ac	7.00/ac	\$7.00			
Haul Beets	Custom	15	100%	23 ton	3.00/ton	\$69.00			
Total Materials & Services						\$448.69			
Total listed costs for Field Operations and Materials & Services								\$634.01	
Cost per ton for Field Operations and Materials & Service								\$27.57	

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 40. Sunflower, Rainfed
No-Till, Following Corn or Grain Sorghum
13 cwt/ac Sunflower**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate
				+Pwr	+Imp	+Pwr	+Imp		
1 Spray	1 ac	\$0.59	\$0.46	\$0.35	\$0.30	\$0.04	\$0.25	\$1.99	
2 Spray	1 ac	\$0.59	\$0.46	\$0.35	\$0.30	\$0.04	\$0.25	\$1.99	
3 Plant No-Till	1 ac	\$2.46	\$2.54	\$0.34	\$1.27	\$1.89	\$1.89	\$10.39	
4 Spray	0.55 ac	\$0.55	\$0.28	\$0.32	\$0.11	\$0.02	\$0.12	\$1.40	
5 Combine	1 ac	\$1.84	\$5.84	\$2.30	\$0.13	\$9.40	\$1.37	\$20.88	
6 Truck	Custom								
Total for Field Operations		\$6.03	\$9.58	\$3.66	\$2.11	\$11.39	\$3.88	\$36.65	
Wage \$12.00/hr	Elec \$0.072/kwh								
Diesel \$4.00/gal									
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =	Total \$/Acre			
Glyphosate w/Surf	Herbicide	1	100%	32 oz	0.35/oz	\$11.20			
21-0-0-26s	Spray Grade	1	100%	2 lb	0.53/lb	\$1.06			
Prowl H ₂ O	Herbicide	1	100%	32 oz	0.30/oz	\$9.60			
28-0-0	Fertilizer	1	100%	50 lb N	0.82/lb N	\$41.00			
Spartan 7F DF	Herbicide	2	100%	5 oz	4.00/oz	\$20.00			
Glyphosate w/Surf	Herbicide	2	50%	32 oz	0.35/oz	\$5.60			
21-0-0-26s	Spray Grade	2	50%	2 lb	0.53/lb	\$0.53			
Prowl H ₂ O	Herbicide	2	100%	16 oz	0.30/oz	\$4.80			
Sunflower	Seed	3	100%	5 lb	3.90/lb	\$19.50			
Aerial Spray	Custom	4	55%	1 ac	7.00/ac	\$3.85			
Warrior T	Insecticide*	4	55%	3.84 oz	2.18/oz	\$4.60			
Haul Grain cwt	Custom	6	100%	13 cwt	0.25/cwt	\$3.25			
Total Materials & Services						\$124.99			
*Insecticide for seed weevil and sunflower moth									
Total listed costs for Field Operations and Materials & Services								\$161.54	
Cost per bushel for Field Operations and Materials & Service								\$12.43	

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 41. Sunflower, Rainfed
Ecofallow, After Wheat, Two Crops in Three Years
16 cwt/ac Sunflower**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate
				+Pwr	+Imp	+Pwr	+Imp		
1 Spray	1 ac	\$0.59	\$0.46	\$0.35	\$0.30	\$0.04	\$0.25	\$1.99	
2 Spray	1 ac	\$0.59	\$0.46	\$0.35	\$0.30	\$0.04	\$0.25	\$1.99	
3 Spray	1 ac	\$0.59	\$0.46	\$0.35	\$0.30	\$0.04	\$0.25	\$1.99	
4 Spray	1 ac	\$0.59	\$0.46	\$0.35	\$0.30	\$0.04	\$0.25	\$1.99	
5 Plant No-Till	1 ac	\$2.46	\$2.54	\$0.34	\$1.27	\$1.89	\$1.89	\$10.39	
6 Spray	Custom								
7 Combine	1 ac	\$1.84	\$5.84	\$2.30	\$0.13	\$9.40	\$1.37	\$20.88	
8 Truck	Custom								
Total for Field Operations		\$6.66	\$10.22	\$4.04	\$2.60	\$11.45	\$4.26	\$39.23	
Wage \$12.00/hr	Elec \$0.072/kwh								
Diesel \$4.00/gal									
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =	Total \$/Acre			
Landmaster BW	Herbicide	1	100%	54 oz	0.17/oz	\$9.18			
21-0-0-26s	Spray Grade	1	100%	2 lb	0.53 lb	\$1.06			
Glyphosate w/Surf	Herbicide	2	100%	32 oz	0.35/oz	\$11.20			
21-0-0-26s	Spray Grade	2	100%	2 lb	0.53/lb	\$1.06			
Glyphosate w/Surf	Herbicide	3	100%	32 oz	0.35/oz	\$11.20			
21-0-0-26s	Spray Grade	3	100%	2 lb	0.53/lb	\$1.06			
Prowl H ₂ O	Herbicide	3	100%	32 oz	0.30/oz	\$9.60			
28-0-0	Fertilizer	3	100%	60 lb N	0.82/lb N	\$49.20			
Spartan 7F DF	Herbicide	4	100%	5 oz	4.00/oz	\$20.00			
Glyphosate w/Surf	Herbicide	4	50%	32 oz	0.35/oz	\$5.60			
21-0-0-26s	Spray Grade	4	50%	2 lb	0.53/lb	\$0.53			
Prowl H ₂ O	Herbicide	4	100%	16 oz	0.30/oz	\$4.80			
Sunflower	Seed	5	100%	5 lb	3.90/lb	\$19.50			
Aerial Spray*	Custom	6	55%	1 ac	7.00/ac	\$3.85			
Warrior T	Insecticide	6	55%	3.84/oz	2.18/oz	\$4.60			
Haul Grain cwt	Custom	8	100%	15 cwt	0.25/cwt	\$3.75			
Total for Materials & Services						\$156.19			
*Insecticide for seed weevil and sunflower moth									
Total listed costs for Field Operations and Materials & Services								\$195.42	
Cost per bushel for Field Operations and Materials & Service								\$12.21	

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 42. Wheat, Rainfed
No-Till After Row Crop, 40 bu/ac Yield Goal
35 bu/ac Wheat**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate
				+Pwr	+Imp	+Pwr	+Imp		
1 No-Till Drill	1 ac	\$1.93	\$3.55	\$0.28	\$2.41	\$1.55	\$2.19	\$11.91	
2 Spray	1 ac	\$0.59	\$0.46	\$0.35	\$0.31	\$0.03	\$0.25	\$1.99	
3 Spray	Custom								
4 Combine	1 ac	\$1.84	\$5.76	\$2.30	\$0.13	\$9.41	\$1.36	\$20.80	
5 Truck	Custom								
Total for Field Operations		\$4.36	\$9.77	\$2.93	\$2.85	\$10.99	\$3.80	\$34.70	
Wage \$12.00/hr	Elec \$0.072/kwh								
Diesel \$4.00/gal									
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =	Total \$/Acre			
10-34-0	Fertilizer	1	100%	8 gal	6.84/gal	\$54.72			
Wheat	Seed	1	100%	90 lb	0.30/lb	\$27.00			
28-0-0	Fertilizer	2	100%	80 lb N	0.82/lb N	\$65.60			
Ally Extra	Herbicide	2	100%	0.3 oz	10.00/oz	\$3.00			
2,4-D Ester 4#	Herbicide	2	100%	0.5 pt	2.25/pt	\$1.13			
NIS	Herbicide	2	100%	6 oz	0.20/oz	\$1.20			
Aerial Spray*	Custom	3	15%	1 ac	7.00/ac	\$1.05			
Lorsban 4 E	Insecticide	3	10%	1.5 pt	5.25/pt	\$0.79			
Warrior T	Insecticide	3	5%	1.92 oz	2.81/oz	\$0.27			
Haul Grain bu	Custom	5	100%	35 bu	0.15/bu	\$5.25			
Total for Materials & Services						\$160.01			
*Insecticide for Russian wheat aphid and army cutworm									
Total listed costs for Field Operations and Materials & Services								\$194.71	
Cost per bushel for Field Operations and Materials & Service								\$5.56	

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 43. Wheat, Rainfed
Stubble Mulch Fallow, One Crop in Two Years, 48 bu/ac Yield Goal
45 bu/ac Wheat**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate
				+Pwr	+Imp	+Pwr	+Imp		
1 Fallow Master	1 ac	\$0.62	\$1.60	\$0.24	\$0.59	\$0.50	\$1.28	\$4.83	
2 Fallow Master	1 ac	\$0.62	\$1.60	\$0.24	\$0.59	\$0.50	\$1.28	\$4.83	
3 Fallow Master	1 ac	\$0.62	\$1.60	\$0.24	\$0.59	\$0.50	\$1.28	\$4.83	
4 Rod Weeder	1 ac	\$1.00	\$1.62	\$0.26	\$0.74	\$0.51	\$1.35	\$5.48	
5 Rod Weeder	1 ac	\$1.00	\$1.62	\$0.26	\$0.74	\$0.51	\$1.35	\$5.48	
6 Spray (attached)	1 ac	\$0.20			\$0.20		\$0.22	\$0.62	
7 Drill	1 ac	\$0.83	\$1.88	\$0.12	\$2.83	\$0.67	\$3.55	\$9.88	
8 Spray	1 ac	\$0.59	\$0.46	\$0.35	\$0.31	\$0.03	\$0.25	\$1.99	
9 Spray	Custom								
10 Combine	1 ac	\$1.18	\$4.58	\$1.69	\$0.17	\$6.93	\$0.74	\$15.29	
11 Truck	Custom								
Total for Field Operations		\$6.66	\$14.96	\$3.40	\$6.76	\$10.15	\$11.30	\$53.23	
Wage \$12.00/hr	Elec \$0.072/kwh								
Diesel \$4.00/gal									
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =	Total \$/Acre			
28-0-0	Fertilizer	6	100%	60 lb N	0.82/lb N	\$49.20			
10-34-0	Fertilizer	7	100%	8 gal	6.84/gal	\$54.72			
Wheat	Seed	7	100%	60 lb	0.30/lb	\$18.00			
2,4-D Ester 4#	Herbicide	8	100%	0.5 pt	2.25/pt	\$1.13			
Ally Extra	Herbicide	8	100%	0.3 oz	10.00/oz	\$3.00			
NIS	Herbicide	8	100%	6 oz	0.20/oz	\$1.20			
Aerial Spray*	Custom	9	15%	1 ac	7.00/ac	\$1.05			
Lorsban 4 E	Insecticide	9	10%	1.5 pt	5.25/pt	\$0.79			
Warrior T	Insecticide	9	5%	1.92 oz	2.81oz	\$0.27			
Haul Grain bu	Custom	11	100%	45 bu	\$0.15/bu	\$6.75			
Total Materials & Services						\$136.11			
*Insecticide for Russian wheat aphid and army cutworm									
Total listed costs for Field Operations and Materials & Services								\$189.34	
Cost per bushel for Field Operations and Materials & Service								\$4.21	

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 44. Wheat, Rainfed
Clean Till Fallow, One Crop in Two Years, 44 bu/a Yield Goal
40 bu/ac Wheat**

Year 2009

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate
				+Pwr	+Imp	+Pwr	+Imp		
1 Discing	1 ac	\$1.21	\$3.00	\$0.20	\$1.00	\$1.07	\$1.03	\$7.51	
2 Field Cultivations	1 ac	\$0.62	\$1.53	\$0.10	\$0.57	\$0.53	\$0.58	\$3.93	
3 Field Cultivations	1 ac	\$0.62	\$1.53	\$0.10	\$0.57	\$0.53	\$0.58	\$3.93	
4 Field Cultivations	1 ac	\$0.62	\$1.53	\$0.10	\$0.57	\$0.53	\$0.58	\$3.93	
5 Rod Weeder	1 ac	\$1.00	\$1.62	\$0.26	\$0.74	\$0.51	\$1.35	\$5.48	
6 Rod Weeder	1 ac	\$1.00	\$1.62	\$0.26	\$0.74	\$0.51	\$1.35	\$5.48	
7 Apply Anhy (attach)	1 ac	\$0.33			\$0.20		\$0.20	\$0.73	
8 Drill	1 ac	\$0.83	\$1.88	\$0.12	\$2.83	\$0.67	\$3.55	\$9.88	
9 Spray	1 ac	\$0.59	\$0.46	\$0.35Q	\$0.31	\$0.03	\$0.25	\$1.99	
10 Spray	Custom								
11 Combine	1 ac	\$1.18	\$4.58	\$1.69	\$0.17	\$6.93	\$0.74	\$15.29	
12 Truck	Custom								
Total for Field Operations		\$8.00	\$17.75	\$3.18	\$7.70	\$11.31	\$10.21	\$58.15	
Wage \$12.00/hr	Elec \$0.072/kwh								
Diesel \$4.00/gal									
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =	Total \$/Acre			
82-0-0	Fertilizer	7	100%	50 lb N	0.67/lb N	\$33.50			
10-34-0	Fertilizer	8	100%	8 gal	6.84/gal	\$54.72			
Wheat	Seed	8	100%	60 lb	0.30/lb	\$18.00			
2,4-D Ester 4#	Herbicide	9	100%	0.5 pt	2.25/pt	\$1.13			
Ally Extra	Herbicide	9	100%	0.3 oz	10.00/oz	\$3.00			
NIS	Herbicide	9	100%	6 oz	0.20/oz	\$1.20			
Aerial Spray*	Custom	10	15%	1 ac	7.00/ac	\$1.05			
Lorsban 4 E	Insecticide	10	10%	1.5 pt	5.25/pt	\$0.79			
Warrior T	Insecticide	10	5%	1.92 oz	2.81/oz	\$0.27			
Haul Grain bu	Custom	12	100%	40 bu	0.15/bu	\$6.00			
Total for Materials & Services						\$119.66			
*Insecticide for Russian wheat aphid and army cutworm									
Total listed costs for Field Operations and Materials & Services								\$177.81	
Cost per bushel for Field Operations and Materials & Service								\$4.45	

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

Table 45. Wheat, Rainfed

Year 2009

**No-Till Wheat before Corn, Two Crops in Three Years, 60 bu/ac Yield Goal
55 bu/ac Wheat**

Field Operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate
				+Pwr	+Imp	+Pwr	+Imp		
1 Spray	1 ac	\$0.59	\$0.46	\$0.35	\$0.31	\$0.03	\$0.25	\$1.99	
2 Spray	1 ac	\$0.59	\$0.46	\$0.35	\$0.31	\$0.03	\$0.25	\$1.99	
3 Spray	1 ac	\$0.59	\$0.46	\$0.35	\$0.31	\$0.03	\$0.25	\$1.99	
4 Spray	1 ac	\$0.59	\$0.46	\$0.35	\$0.31	\$0.03	\$0.25	\$1.99	
5 No-Till Drill	1 ac	\$1.93	\$3.55	\$0.28	\$2.41	\$1.55	\$2.19	\$11.91	
6 Spread Fertilizer	1 ac	\$0.95	\$1.09	\$0.56	Inc	\$0.04	Inc	\$2.64	
7 Spray	1 ac	\$0.59	\$0.46	\$0.35	\$0.31	\$0.03	\$0.25	\$1.99	
8 Spray	Custom								
9 Combine	1 ac	\$1.84	\$5.76	\$2.30	\$0.13	\$9.41	\$1.36	\$20.80	
10 Truck	Custom								
Total for Field Operations		\$7.67	\$12.70	\$4.89	\$4.09	\$11.15	\$4.80	\$45.30	
Wage \$12.00/hr	Elec \$0.073/kwh								
Diesel \$4.00/gal									
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =		Total \$/Acre		
Glyphosate w/Surf	Herbicide	1	100%	32 oz	0.35/oz		\$11.20		
21-0-0-26S	Spray Grade	1	100%	2 lb	0.53/lb		\$1.06		
Glyphosate w/Surf	Herbicide	2	100%	32 oz	0.35/oz		\$11.20		
21-0-0-26S	Spray Grade	2	100%	2 lb	0.53/lb		\$1.06		
Glyphosate w/Surf	Herbicide	3	100%	32 oz	0.35/oz		\$11.20		
21-0-0-26S	Spray Grade	3	100%	2 lb	0.53/lb		\$1.06		
Glyphosate w/Surf	Herbicide	4	100%	32 oz	0.35/oz		\$11.20		
21-0-0-26S	Spray Grade	4	100%	2 lb	0.53/lb		\$1.06		
10-34-0	Fertilizer	5	100%	8 gal	6.84/gal		\$54.72		
Wheat	Seed	5	100%	60 lb	0.30/lb		\$18.00		
46-0-0	Fertilizer	6	100%	70 lb N	0.90/lb N		\$63.00		
Ally Extra	Herbicide	7	100%	0.3 oz	10.00/oz		\$3.00		
NIS	Herbicide	7	100%	6 oz	0.20/oz		\$1.20		
2,4-D Ester 4#	Herbicide	7	100%	0.5 pt	2.25/pt		\$1.13		
Aerial Spray*	Custom	8	15%	1 ac	7.00/ac		\$1.05		
Lorsban 4 E	Insecticide	8	10%	1.5 pt	5.25/pt		\$0.79		
Warrior T	Insecticide	8	5%	1.92 oz	2.81/oz		\$0.27		
Haul Grain bu	Custom	10	100%	55 bu	0.15/bu		\$8.25		
Total for Materials & Services							\$200.45		
*Insecticide for Russian wheat aphid and army cutworm									
Total listed costs for Field Operations and Materials & Services								\$245.75	
Cost per bushel for Field Operations and Materials & Service								\$4.47	

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.

**Table 46. Wheat, Pivot Irrigated, 800 GPM 35 PSI, 8 acre-inches
No-Till after Beans, 88 bu/ac Yield Goal
80 bu/ac Wheat**

Year 2009

Field operations	Times or Qty	Labor	+Fuel & Lube	Repairs		Depreciation		= Total	Your Estimate
				+Pwr	+Imp	+Pwr	+Imp		
1 No-Till Drill	1 ac	\$1.93	\$3.55	\$0.28	\$2.41	\$1.55	\$2.19	\$11.91	
2 PivotD 125' Lift	8 AI	\$3.23	\$65.59	\$3.26	\$3.04	\$6.62	\$13.19	\$94.93	
3 Spray	1 ac	\$0.59	\$0.46	\$0.35	\$0.31	\$0.03	\$0.25	\$1.99	
4 Spray	Custom								
5 Spray	Custom								
6 Combine	1 ac	\$1.84	\$5.76	\$2.30	\$0.13	\$9.41	\$1.36	\$20.80	
7 Truck	Custom								
Total for Field Operations		\$7.59	\$75.36	\$6.19	\$5.89	\$17.61	\$16.99	\$129.63	
Wage \$12.00/hr	Elec \$0.072/kwh								
Diesel \$4.00/gal									
Materials & Services		Oper #	Acres X	Quantity/Acre x	Price\$/Unit =	Total \$/Acre			
10-34-0	Fertilizer	1	100%	8 gal	6.84/gal	\$54.72			
Wheat	Seed	1	100%	120 lb	0.30/lb	\$36.00			
28-0-0	Fertilizer	2	100%	160 lb N	0.82/lb N	\$131.20			
2,4-D Ester 4#	Herbicide	3	100%	0.5 pt	2.55/pt	\$1.28			
Ally Extra	Herbicide	3	100%	0.3 oz	10.00/oz	\$3.00			
NIS	Herbicide	3	100%	6 oz	0.20/oz	\$1.20			
Aerial Spray	Custom	4	100%	1 ac	7.00/ac	\$7.00			
Tilt	Fungicide	4	100%	4 oz	3.13/oz	\$12.52			
Aerial Spray*	Custom	5	15%	1 ac	7.00/ac	\$1.05			
Lorsban 4 E	Insecticide	5	10%	1.5 pt	5.25/pt	\$0.79			
Warrior T	Insecticide	5	5%	1.92 oz	2.81/oz	\$0.27			
Haul Grain bu	Custom	7	100%	80 bu	0.15/bu	\$12.00			
Total for Materials & Services						\$261.03			
*Insecticide for Russian wheat aphid and army cutworm									
Total listed costs for Field Operations and Materials & Services								\$390.66	
Cost per bushel for Field Operations and Materials & Service								\$4.88	

For interest, overhead, management, crop insurance, machinery insurance, and land costs see the "Worksheet to Calculate Costs Other than Operating and Use-Related Depreciation" on page 4. For help in converting energy costs for your farm situation, see "Converting Energy Numbers in Budgets," page 5, and "Diesel Fuel Conversion for Center Pivots," page 5.