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EC94-872-S Nebraska Crop Budgets

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NEBRASKA

CROP BUDGETS

1994

By
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CROP BUDGETS

NEBRASKA - 1994

Edited By

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Crops Budgeting Procedures

The crop budgets were developed with the aid of a computerized crop budgeting program. A worksheet format has been used to make adjustments convenient. See "Your Estimate" column in each budget.

An example set of crop and machine operations were selected for each area. Representative field operating rates, fuel use, labor requirements, and materials needed have been budgeted for each crop. An annual use and years to trade were used to determine annual ownership costs for equipment. These assumptions are summarized at the beginning of each set of budgets. Although the budgets are titled by geographical areas of the state, the applicability of the budgets is determined more by climatic and soil conditions. Following is a summary of the budget areas:

- Panhandle:** The ditch irrigated budgets apply to irrigated farms in the North Platte Valley using water from the irrigation project ditches. The center pivot and dryland budgets apply to farms in the Panhandle region whose soil has a sandstone or sand and silt parent material.
- Southwest:** These budgets, unless otherwise specified, apply to the crops grown on upland areas in the Southwest part of the state. There are also some budgets which specifically apply to the Platte Valley in the western part of the state.
- North:** These budgets apply to crops grown in the Sandhills area which includes parts of Sheridan and Garden counties in the Panhandle.
- Central:** These budgets apply to irrigated and dryland farms in the south central part of Nebraska. Holdrege and Hastings soils are the predominant soil associations in this area.
- Northeast:** These budgets apply to the rolling hills area of the north eastern part of the state with Moody-Crofton soils. Some of the budgets specifically apply to the sandy areas of Pierce, Antelope and Holt counties.
- East Central:** The soils to which these budgets apply are flat to rolling glaciated soils of the Sharpsburg-Marshall-Shelby associations with Loess parent material.
- Southeast:** The soils to which these budgets apply are flat to rolling hills of Loess and Drift parent materials consisting of Crete, Fillmore, Wymore and Pawnee soil associations.

Cultural Practices and Yields

Tillage practices and materials used in the budgets were based on farm record data, workshops with growers, consultations with Extension specialists in other disciplines, and the judgement of the farm management specialists. All practices specified may not be utilized by an individual farmer. The cost of those not used can be easily deleted from the budget.

Yields shown in the budgets are representative of county averages over several years, including years of low yields due to such factors as drought, hail and insect damage. No allowance was made for the expense of crop insurance, or the income from crop insurance proceeds although space was provided for including crop insurance premiums.

Machinery Costs

Prices for the machinery were collected from selected dealers in early 1993. Costing factors, based on information in the Ag. Engineer's Yearbook specify repair rates and trade-in values as a proportion of list prices. 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 repair cost estimates are averages over the years of use. Fuel consumption factors were based on Nebraska tractor test data.

Irrigation costs were calculated using prices of irrigation equipment collected in early 1993, engineering performance standards, and typical water application rates.

Current machinery and equipment prices are used to reflect repairs and ownership (depreciation and interest) costs in today's dollars. Custom rates for custom operations are based upon surveys conducted periodically.

Labor Costs

Labor requirements were calculated from machinery accomplishment rates and adjusted through a labor multiplier for "non-field" time required for crop production, such as getting machinery ready, driving to and from fields and hauling fertilizer and other supplies. For operations involving unattended machinery, such as irrigation, the labor multiplier reflects the labor required as a proportion of the machine time.

Interest Costs

Interest rates for machinery and land are commercial rates that have been adjusted for current inflation rates. Interest was calculated on the average investment over the years of use. The resulting estimated interest costs are in current dollars and assume any equity funds are charged the same rate as borrowed funds.

Overhead and Management Charges

Farm overhead expenses are budgeted at 5% of operating expenses. Overhead expenses include items which are normally not allocated to individual farm enterprises, yet are necessary to keep a business running. These include pickup expense, farm share of car expense, farm publications, unallocated farm utilities, cost of attending farm meetings and income tax preparation expense.

Management charges are budgeted on a per unit of production basis resulting in higher management charges for more productive land. Overhead and management charges are included so the total production cost will reflect a charge for all inputs used in the production process.

Land and Irrigation Ownership Charges

The land prices budgeted are representative of the area. The average investment in any irrigation system is subtracted from the land price to determine a price for the bare land with no irrigation development. Irrigation ownership costs are shown separately as interest and depreciation.

Prices Used for 1994 Crop Budgets

Description		Unit	Price	Budget Unit
Custom Operations				
Aerial Spray		1 ac	4.00	4.00/ac
Apply Anhydrous		1 ac	5.00	5.00/ac
Bale Round (1300 lbs.)		1 bale	6.00	6.00/bale
Bale Round (ton)		1 bale	9.75	9.75/bale
Bale(small square)		1 bale	.35	.35/bale
Broadcast Spray		1 ac	3.50	3.50/ac
Broadcast Spread		1 ac	3.25	3.25/ac
Chop Silage		1 ton	2.50	2.50/ton
Cultivate		1 ac	6.00	6.00/ac
Dry		1 bu	.10	.10/bu
Field Loaf Stack		1 stack	10.00	10.00/stack
Load & Stack		1 stack	9.71	9.71/stack
Move Bales		1 bale	1.00	1.00/bale
Move Stack		1 stack	10.00	10.00/stack
Nematicide Application		1 ac	15.50	15.50/ac
Seeding, Alfalfa		1 ac	6.00	6.00/ac
Soil Test		1 test	11.75	11.75/test
Truck Silage		1 ton	2.00	2.00/ton
Truck Sugar Beets		1 ton	2.50	2.50/ton
Truck, Small Grain		1 bu	.12	.12/bu
Truck, cwt.		1 cwt	.17	.17/cwt
Windrow		1 ac	7.50	7.50/ac
Fertilizer				
Ammonium Sulfate	21-0-0-26S	1 ton	191.67	.10/lb
Anhydrous Ammonia	82-0-0	1 ton	192.00	.12/lb. N
Di Ammonium Phosphate	18-46-0	1 ton	229.00	.11/lb
Dry mix	10-30-0-10S-1Z	1 ton	225.50	.11/lb
Dry mix	30-10-0	1 ton	191.94	.10/lb
Liquid N	28-0-0	1 ton	128.00	.23/lb. N
Liquid mix	10-34-0	1 ton	213.20	1.22/gal
Liquid mix	10-34-0-1Z	1 ton	220.00	1.25/gal
Potassium Sulphate	0-0-22-22S-11MG	1 ton	183.33	.09/lb
Sulfur	90 %	1 ton	275.00	.15/lb. S
Triple Sulfur Phosphate	0-46-0	1 ton	176.00	.19/lb. P205
Urea	46-0-0	1 ton	209.20	.23/lb. N
Zinc Ammonium Acetate	10-0-0-10Z	1 ton	489.00	2.54/gal
Fuel				
Diesel w/o tax		1 gal	.65	.65/gal
Diesel w/tax		1 gal	1.13	1.13/gal
Elec Farm		1 Kwh	.06	.06/Kwh
Elec Irrig inc. hookup		1 Kwh	.08	.08/Kwh
Gasoline w/o tax		1 gal	.63	.63/gal
Gasoline w/tax		1 gal	1.05	1.05/gal
Nat'l Gas		1 CCF	3.90	3.90/CCF
Propane		1 gal	.43	.43/gal
Herbicide				
2,4-D Amine		1 gal	10.75	1.34/pt
2,4-D Ester		1 gal	13.51	1.69/pt
Ally		1 oz	28.46	28.46/oz
Atrazine (AAtrex) 4L		1 gal	10.61	1.33/pt
Atrazine 90DF		1 lb	3.02	3.02/lb

Prices Used for 1994 Crop Budgets

Description	Unit	Price	Budget Unit
Herbicide			
Banvel	1 gal	74.45	9.31/pt
Bicep	1 gal	32.51	8.13/qt
Bladex 4L	1 gal	23.93	5.98/qt
Bladex 90DF	1 lb	5.31	5.31/lb
Buctril	1 gal	52.45	6.56/pt
Bullet	1 gal	19.71	4.93/qt
Cyclone	1 gal	26.13	3.27/pt
Dual	1 gal	63.61	7.95/pt
Eptam 7E	1 gal	27.38	3.42/pt
Freedom	1 gal	11.96	2.99/qt
Glean	1 oz	18.23	18.23/oz
Karmex 80 W	1 lb	4.30	4.30/lb
Landmaster BW54	1 gal	19.15	.15/oz
Lariat	1 gal	19.22	4.81/qt
Lasso 4EC	1 gal	25.71	6.43/qt
Lasso II 15G	1 lb	.99	.99/lb
Prowl	1 gal	29.76	3.72/pt
Pursuit +	1 gal	76.03	9.50/pt
Ramrod-Atrazine	1 gal	14.92	3.73/qt
Roneet 7E	1 gal	51.50	6.44/pt
Roundup	1 gal	46.19	5.77/pt
Sencor 4L	1 gal	136.39	3.25/pt
Sencor DF	1 lb	25.96	25.96/lb
Sonalan	1 gal	32.29	4.04/pt
Treflan	1 gal	33.11	4.14/pt
Labor			
Haying	1 hr	6.00	6.00/hr
Move Cattle	1 ac	.25	.25/ac
Rogue Beans	1 ac	5.00	5.00/ac
Thinning	1 ac	40.00	40.00/ac
Thinning & Weeding Beets	1 ac	25.00	25.00/ac
Weeding Beets	1 ac	18.00	18.00/ac
Materials			
Temporary Fencing	1 ac	1.00	1.00/ac
Twine	1 bale	19.95	.40/bale
Wire	1 roll	36.61	.17/bale
Pesticide			
Asana	1 gal	120.00	.94/oz
Counter 15G	1 lb	1.64	1.64/lb
Dipel	1 gal	32.50	4.06/pt
Dyfonate 20G	1 lb	1.99	1.99/lb
Furadan 15G	1 lb	1.70	1.70/lb
Lorsban (15 G)	1 lb	1.66	1.66/lb
Lorsban 4E	1 gal	44.56	5.57/pt
Parathion 4E	1 gal	39.00	9.75/lb
Pounce	1 gal	166.67	1.30/oz
Sulfur Flowable	1 lb	.13	.13/lb
Telane Nematicide	1 gal	9.85	9.85/gal
Tilt (Fungicide)	1 gal	350.00	2.73/oz
Rent			
Anhydrous Applicator	1 ac	1.50	1.50/ac
Broadcast Spreader	1 ac	1.00	1.00/ac

Prices Used for 1994 Crop Budgets

Description	Unit	Price	Budget Unit
Rent			
Grain drill	1 ac	3.75	3.75/ac
Seeder-Packer	1 ac	3.75	3.75/ac
Seed			
Alfalfa w/innoculant	50 lb bag	171.75	3.44/lb
Cane Hay, Sudan	50 lb bag	23.74	.47/lb
Corn	1 bag	79.23	79.23/bag
Dry Edible Beans	1 cwt	50.00	50.00/cwt
Grass	1 lb	4.00	4.00/lb
Millet	50 lb bag	18.00	.36/lb
Oats	1 bu	5.00	5.00/bu
Sorghum	50 lb bag	43.60	.87/lb
Sorghum Safened	50 lb bag	53.60	1.07/lb
Soybeans w/Inoculant	50 lb bag	14.43	14.43/bag
Sugar Beets	1 lb	20.00	20.00/lb
Sunflower	50 lb bag	160.00	3.20/lb
Wheat	50 lb bag	8.50	.17/lb
Tax			
Water Tax	budget A2-A7	1 ac	18.50
Water Tax	budget B4	1 ac	19.00

DESCRIPTION OF THE GRAVITY IRRIGATED BUDGETS, NEBRASKA PANHANDLE

These budgets are intended to be representative of farms located in the North Platte Valley using irrigated project water. Items of machinery used are listed below along with use levels and cost assumptions. Tooling and cost assumptions for each operation are also listed. A summary table providing total cost estimates precedes the operating cost worksheets.

P1 1994 Machinery List -- Panhandle Gravity Irrigated						
Mcode	Machine	Price	Annual Use	Years to Trade	Trade in	Repairs
Power Units						
16	Tractor 120 hp diesel cab	61,289	500 hr	10	18,103	3.06/hr
17	Tractor 150 hp diesel cab	65,573	600 hr	10	19,370	3.93/hr
84	Combine 185 hp	90,000	200 hr	10	16,977	15.44/hr
Implements						
22	Plow 5x15"	8,914	300 ac	15	932	1.88/ac
30	Tandem Disc 20'	14,485	900 ac	15	1,390	.49/ac
34	Subsoiler 13.5'	5,139	120 ac	15	494	.15/ac
38	Row Crop Cultivator 6 row x 30"	3,803	750 ac	10	672	.26/ac
47	Rotary Hoe 15'	3,327	400 ac	15	320	.06/ac
49	Roller/Packer 15'	11,000	300 ac	15	1,055	.22/ac
66	Planter 6 row x 30"	15,640	500 ac	10	2,765	1.76/ac
77	Sprayer 2-200 gallon 15' saddle tanks	2,600	300 ac	20	127	.13/ac
79	Bean Rod 15'	3,265	120 ac	15	334	.07/ac
81	Bean Cutter 6 row x 30"	4,066	120 ac	15	417	.09/ac
87	6 row corn head	33,562	760 ac	10	6,331	1.50/ac
92	15' pickup head	17,378	760 ac	10	3,278	.79/ac
99	Forage Harvester 3 row	27,642	240 ac	10	4,562	2.09/ac
104	Defoliator 4 row x 30"	17,500	120 ac	15	1,792	.92/ac
107	Beet Lifter 4 row x 30"	60,000	140 ac	15	5,760	4.15/ac
114	Ditcher 15'	4,125	400 ac	15	424	.46/ac

1994 Operations List* Panhandle Gravity Irrigated

P1 Operation	Power Code	Imp Code	Energy/hr			% Lube
All Irrig.	Labor					
Apply Anhy	17	Rent	7.70	Gal	Diesel	10%
Apply Nemat	Custom					
Bale	Custom					
Chop	17	99	7.70	Gal	Diesel	10%
Combine	84	87	9.50	Gal	Diesel	10%
Combine	84	92	9.50	Gal	Diesel	10%
Cut	16	81	6.10	Gal	Diesel	10%
Defoliate	16	104	6.10	Gal	Diesel	10%
Disc	17	30	7.70	Gal	Diesel	10%
Ditch	16	114	6.10	Gal	Diesel	10%
Drill	16	Rent	6.10	Gal	Diesel	10%
Haul	Custom					
Hoe	16	47	6.10	Gal	Diesel	10%
Lift	17	107	7.70	Gal	Diesel	10%
Load & Stack	Custom					
Plant	16	66	6.10	Gal	Diesel	10%
Plow	17	22	7.70	Gal	Diesel	10%
Rod	16	79	6.10	Gal	Diesel	10%
Roll	17	49	7.70	Gal	Diesel	10%
Row Crop Cult	16	38	6.10	Gal	Diesel	10%
Spray	Custom					
Spray w/Disc		77				
Spread Fert.	16	Incl	6.10	Gal	Diesel	10%
Subsoil	17	34	7.70	Gal	Diesel	10%
Thin	Hire					
Thin & Weed	Hire					
Truck	Custom					
Truck & Pack	Custom					
Weed	Hire					
Windrow	Custom					

*See previous page for power unit that corresponds to power code and implement code. The % lube is lube charge as a percentage of the fuel cost.

Budgeted Production Costs Summary, Panhandle Gravity Irrigated 1994

Budget Crop Description	A2 Sugar Beets Gravity Irrig	A3 Dry Beans Gravity Irrig	A4 Corn Grain Gravity Irrig	A5 Corn Silage Gravity Irrig	A6 Estab Alfalfa Gravity Irrig w/Oats	A7 Hay Alfalfa Gravity Irrig
Yield	23.0 Ton	20.0 Cwt	140.0 Bu	20.0 Ton	2.265 Ton DM	6.0 Ton
Mgt Fee/unit	\$2.00	\$1.25	\$0.15	\$1.00	\$10.00	\$3.00
Land Invest.	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Unimp. Irrig	1,000	1,000	1,000	1,000	1,000	1,000
Mach Invest	\$635.19	\$363.53	\$289.08	\$303.89	\$209.92	\$4.95
Op Cost/ac	\$470.63	\$164.14	\$160.53	\$186.97	\$160.89	\$199.64
Overhead	23.53	8.21	8.03	9.35	8.04	9.98
Unpaid Mgt	46.00	25.00	21.00	20.00	15.00	18.00
RE Taxes	\$17.00	\$17.00	\$17.00	\$17.00	\$17.00	\$17.00
Land Interest	58.00	58.00	58.00	58.00	58.00	58.00
Irrig Interest						
Irrig Deprec						
Land Subtotal	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00	\$75.00
Mach. Interest	\$43.83	\$25.08	\$19.95	\$20.97	\$14.48	\$0.34
Mach. Deprec	70.09	42.47	34.56	36.09	25.19	0.54
Mach. Subtotal	\$113.92	\$67.55	\$54.51	\$57.06	\$39.67	\$0.88
Total Owner Cost	\$188.92	\$142.55	\$129.51	\$132.06	\$114.67	\$75.88
Estab Costs						\$34.58
Total Cost/ac	\$729.08	\$339.90	\$319.06	\$348.38	\$298.61	\$338.08
Total Cost/unit	\$31.70	\$17.00	\$2.28	\$17.42	\$131.84	\$56.35

Returns Above Operating Costs Budget Worksheet
 Sugar Beets, Gravity Irrigated
 20 Acre-inches 23 Ton Beets

Operation #	Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub-Total	Your Estimate
			Labor	Mach	Fuel & Lube	Repairs Power	Impl		
1	Apply Nemat	Custom							
2	Apply Anhy	Custom							
3	Spread Fert.	16.04 Ac/hr	0.07	0.06	0.27 D	0.19		0.46	
4	Plow	2.89 Ac/hr	0.42	0.35	1.91 D	1.36	1.88	5.15	
5	Roll	6.55 Ac/hr	0.18	0.15	0.84 D	0.60	0.22	1.66	
6	Spray in Tandem	6.55 Ac/hr		0.15			0.13	0.13	
7	Plant	4.9 Ac/hr	0.24	0.20	0.89 D	0.62	1.76	3.27	
8	Hoe	13.44 Ac/hr	0.08	0.07	0.32 D	0.23	0.06	0.61	
9	Row Crop Cult	2.5 Ac/hr	0.48	0.40	1.74 D	1.22	0.26	3.22	
10	Row Crop Cult	2.5 Ac/hr	0.48	0.40	1.74 D	1.22	0.26	3.22	
11	Thin	Hire							
12	Thin & Weed	Hire							
13	Weed	Hire							
14	Ditch	5.29 Ac/hr	0.23	0.19	0.82 D	0.58	0.46	1.86	
15	Ditch	5.29 Ac/hr	0.23	0.19	0.82 D	0.58	0.46	1.86	
16	All Irrig.	Labor	4.00						
17	Spray	Custom							
18	Defoliate	5.6 Ac/hr	0.22	0.18	0.78 D	0.55	0.92	2.25	
19	Lift	2.8 Ac/hr	0.43	0.36	1.97 D	1.40	4.15	7.52	
20	Truck	Custom							
21	Subsoil	6.58 Ac/hr	0.18	0.15	0.84 D	0.60	0.15	1.59	
Subtotal			7.24 Hrs		12.94	9.15	10.71	\$32.80	
Diesel			18.09 Gal @ \$0.65	\$11.76					

Materials & Services		Operation #	Units per Acre	Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Sugar Beets	7	2 lb	20.00	40.00	\$40.00	
Fertilizer	Anhy N	2	100 lb. N	0.12	12.00	12.00	
	0-46-0	3	50 lb. P20	0.19	9.50	9.50	
Chemicals	Telane Nemat.	1	12 gal	9.85	118.20	118.20	
	RoNeet 7E	6	2 pt	6.44	12.88	12.88	
	Flowable Sulfur	17	7 lb	0.13	0.91	0.91	
Custom	Nematicide Appl	1	1 ac	15.50	15.50	15.50	
	Aerial Spray	17	1 ac	4.00	4.00	4.00	
	Truck	20	23 ton	2.50	57.50	57.50	
Other	Thinning	11	1 ac	40.00	40.00	40.00	
	Thinning & Weed	12	1 ac	25.00	25.00	43.00	
	Weeding	13	1 ac	18.00	18.00		
	Water Tax	16	1 ac	18.50	18.50	18.50	
Subtotal						\$371.99	
Total Operating Costs excluding Interest & Unpaid Labor						\$404.79	
Interest on Oper. Capital \$404.79 @ 8.3% for 8 Months						22.40	
Unpaid Labor 7.24 Hours \$6.00 /hr						43.44	
Total Operating Costs						\$470.63	
Projected Returns							
Beets			23 Ton	@			
Total Returns							
Net Return above Operating Costs							

A3

Returns Above Operating Costs Budget Worksheet
 Dry Edible Beans, Gravity Irrigated
 10 Acre-inches 20 Cwt Beans

		Hrs per Acre		Cost per Acre					
Operation #	Description	Operation Rate			Fuel&	Repairs	Sub-	Your Estimate	
			Labor	Mach	Lube	Power	Impl		Total
1	Disc	10.63 Ac/hr	0.11	0.09	0.52 D	0.37	0.49	1.38	
2	Disc	10.63 Ac/hr	0.11	0.09	0.52 D	0.37	0.49	1.38	
3	Plow	2.89 Ac/hr	0.42	0.35	1.91 D	1.36	1.88	5.15	
4	Roll	6.55 Ac/hr	0.18	0.15	0.84 D	0.60	0.22	1.66	
5	Spray in Tandem	6.55 Ac/hr		0.15			0.13	0.13	
6	Plant	4.9 Ac/hr	0.24	0.20	0.89 D	0.62	1.76	3.27	
7	Hoe	13.44 Ac/hr	0.08	0.07	0.32 D	0.23	0.06	0.61	
8	Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.82 D	0.58	0.26	1.66	
9	Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.82 D	0.58	0.26	1.66	
10	Ditch	5.29 Ac/hr	0.23	0.19	0.82 D	0.58	0.46	1.86	
11	Weed	Hire							
12	All Irrig.	Labor	1.66						
13	Spray	Custom							
14	Cut	5.73 Ac/hr	0.20	0.17	0.76 D	0.53	0.09	1.38	
15	Rod	6.36 Ac/hr	0.19	0.16	0.69 D	0.48	0.07	1.24	
16	Combine	4.09 Ac/hr	0.29	0.24	1.66 D	3.78	0.79	6.23	
17	Truck	Custom							
18	Disc	10.63 Ac/hr	0.11	0.09	0.52 D	0.37	0.49	1.38	
Subtotal			4.28 Hrs		11.09	10.45	7.45	\$28.99	

Diesel 15.35 Gal @ \$0.65 \$9.97

Materials & Services		Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Edible Beans	6	0.5 cwt	50.00	25.00	\$25.00	
Fertilizer	10-34-0 w/zn	6	9 gal	1.25	11.25	11.25	
	Eptam 7E	5	2.5 pt	3.42	8.55	8.55	
Chemicals	Sonalan	5	2 pt	4.04	8.08	8.08	
	Asana	13	5.8 oz	0.94	5.45	5.45	
Custom	Aerial Spray	13	1 ac	4.00	4.00	4.00	
	Truck	17	20 cwt	0.17	3.40	3.40	
Other	Weeding	11	1 ac	18.00	18.00	18.00	
	Water Tax	12	1 ac	18.50	18.50	18.50	
Subtotal						\$102.23	
Total Operating Costs excluding Interest & Unpaid Labor						\$131.22	
Interest on Oper. Capital \$131.22 @ 8.3% for 8 Months						7.26	
Unpaid Labor 4.28 Hours \$6.00 /hr						25.66	
Total Operating Costs						\$164.14	
Projected Returns							
Beans			20 Cwt		@		
Total Returns							
Net Return above Operating Costs							

A4

Returns Above Operating Costs Budget Worksheet
Corn for Grain, Gravity Irrigated
18 Acre-inches 140 Bu Corn

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Disc	10.63 Ac/hr	0.11	0.09	0.52 D	0.37	0.49		1.38	
2 Apply Anhy	Custom								
3 Plow	2.89 Ac/hr	0.42	0.35	1.91 D	1.36	1.88		5.15	
4 Roll	6.55 Ac/hr	0.18	0.15	0.84 D	0.60	0.22		1.66	
5 Spray in Tandem	6.55 Ac/hr		0.15			0.13		0.13	
6 Plant	4.9 Ac/hr	0.24	0.20	0.89 D	0.62	1.76		3.27	
7 Hoe	13.44 Ac/hr	0.08	0.07	0.32 D	0.23	0.06		0.61	
8 Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.82 D	0.58	0.26		1.66	
9 Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.82 D	0.58	0.26		1.66	
10 Ditch	5.29 Ac/hr	0.23	0.19	0.82 D	0.58	0.46		1.86	
11 All Irrig.	Labor	2.50							
12 Combine	4.44 Ac/hr	0.28	0.23	1.53 D	3.48	1.5		6.51	
13 Truck	Custom								
Subtotal		4.49 Hrs		8.47	8.40	7.02		\$23.89	
Diesel	11.85 Gal @ \$0.65	\$7.70							

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	6	0.38	bag	79.23	30.11	\$30.11	
Fertilizer	Anhy N	2	130	lb. N	0.12	15.60	15.60	
	10-34-0 w/zn	6	9	gal	1.25	11.25	11.25	
Chemicals	Lasso II 15G	5	5.5	lb	0.99	5.45	5.45	
	2,4-D Amine	10	0.25	pt	1.34	0.34	0.34	
	Banvel	10	0.5	pt	9.31	4.66	4.65	
Custom	Truck	13	140	bu	0.12	16.80	16.80	
Other	Water Tax	11	1	ac	18.50	18.50	18.50	
Subtotal							\$102.69	
Total Operating Costs excluding Interest & Unpaid Labor							\$126.58	
Interest on Oper. Capital			\$126.58	@ 8.3%	for 8 Months		7.00	
Unpaid Labor			4.49	Hours	\$6.00	/hr	26.95	
Total Operating Costs							\$160.53	
Projected Returns								
Corn			140	Bu	@			
Crop Residue			1	AUM	@			
Total Returns								
Net Return above Operating Costs								

A5

Returns Above Operating Costs Budget Worksheet
Corn Silage, Gravity Irrigated
18 Acre-inches 20 Ton Silage

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre					Your Estimate
		Labor	Mach	Fuel & Lube	Repairs		Sub- Total		
					Power	Impl			
1 Disc	10.63 Ac/hr	0.11	0.09	0.52 D	0.37	0.49	1.38		
2 Apply Anhy	Custom								
3 Plow	2.89 Ac/hr	0.42	0.35	1.91 D	1.36	1.88	5.15		
4 Roll	6.55 Ac/hr	0.18	0.15	0.84 D	0.60	0.22	1.66		
5 Spray in Tandem	6.55 Ac/hr		0.15			0.13	0.13		
6 Plant	4.9 Ac/hr	0.24	0.20	0.89 D	0.62	1.76	3.27		
7 Hoe	13.44 Ac/hr	0.08	0.07	0.32 D	0.23	0.06	0.61		
8 Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.82 D	0.58	0.26	1.66		
9 Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.82 D	0.58	0.26	1.66		
10 Ditch	5.29 Ac/hr	0.23	0.19	0.82 D	0.58	0.46	1.86		
11 All Irrig.	Labor	2.50							
12 Chop	2.07 Ac/hr	0.58	0.48	2.66 D	1.90	2.09	6.65		
13 Truck & Pack	Custom								
Subtotal		4.79 Hrs		9.60	6.82	7.61	\$24.03		

Diesel 13.36 Gal @ \$0.65 \$8.69

Materials & Services		Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	6	0.38 bag	79.23	30.11	\$30.11	
Fertilizer	Anhy N	2	130 lb. N	0.12	15.60	15.60	
	10-34-0 w/zn	6	9 gal	1.25	11.25	11.25	
Chemicals	Lasso II 15G	5	5.5 lb	0.99	5.45	5.45	
	2,4-D Amine	3	0.25 pt	1.34	0.34	0.34	
	Banvel	3	0.5 pt	9.31	4.66	4.66	
Custom	Truck	13	20 ton	2.00	40.00	40.00	
Other	Water Tax	11	1 ac	18.50	18.50	18.50	
Subtotal						\$125.89	
Total Operating Costs excluding Interest & Unpaid Labor						\$149.92	
Interest on Oper. Capital \$149.92 @ 8.3% for 8 Months						8.30	
Unpaid Labor 4.79 Hours \$6.00 /hr						28.75	
Total Operating Costs						\$186.97	

Projected Returns

Silage 20 Ton @

Total Returns

Net Return above Operating Costs

Returns Above Operating Costs Budget Worksheet
 Establish alfalfa with oats, Gravity Irrigated
 25 Acre-inches 1.5 Ton Oat haylage 2 Ton Hay
 Cost per Acre

Operation # Description	Operation Rate	Hrs per Acre		Fuel & Lube		Repairs		Sub- Total	Your Estimate
		Labor	Mach	Lube	Power	Impl			
1 Plow	2.89 Ac/hr	0.42	0.35	1.91 D	1.36	1.88		5.15	
2 Spread Fert.	16.04 Ac/hr	0.07	0.06	0.27 D	0.19			0.46	
3 Roll	6.55 Ac/hr	0.18	0.15	0.84 D	0.60	0.22		1.66	
4 Roll	6.55 Ac/hr	0.18	0.15	0.84 D	0.60	0.22		1.66	
5 Drill	4.7 Ac/hr	0.25	0.21	0.93 D	0.65			1.58	
6 Windrow	Custom								
7 Chop	3.87 Ac/hr	0.31	0.26	1.42 D	1.02	2.09		4.53	
8 Haul	Custom								
9 Windrow	Custom								
10 Bale	Custom								
11 Load & Stack	Custom								
12 All Irrig.	Labor	2.50							
Subtotal		3.92 Hrs		6.21	4.42	4.41		\$15.04	

Diesel 8.65 Gal @ \$0.65 \$5.63

Materials & Services		Operation #	Units per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Alfalfa	5	12	lb	3.44	41.28	\$41.28	
	Oats	5	0.5	bu	5.00	2.50	2.50	
Fertilizer	0-46-0	2	50	lb.P20	0.19	9.50	9.50	
Custom	Windrower	6	1	ac	7.50	7.50	7.50	
	Truck Silage	8	1	ton	2.00	2.00	2.00	
	Windrower	9	1	ac	7.50	7.50	7.50	
	Bale 65 lb	10	62	bale	0.35	21.70	21.70	
	Load & Stack	11	2	stack	9.71	19.42	19.42	
Rental	Grain Drill	5	1	ac	3.75	3.75	3.75	
Subtotal							\$115.15	
Total Operating Costs excluding Interest & Unpaid Labor							\$130.19	
Interest on Oper. Capital		\$130.19 @ 8.3% for 8 Months					7.20	
Unpaid Labor		3.92 Hours \$6.00 /hr					23.50	
Total Operating Costs							\$160.89	

Projected Returns

Oat haylage 1.5 Ton @
 Hay 2 Ton Hay @

Total Returns

Net Return above Operating Costs

A7

Returns Above Operating Costs Budget Worksheet
 Alfalfa hay, Gravity Irrigated
 25 Acre-inches 6 Ton Hay

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl			
1 Spread Fert.	16.04 Ac/hr	0.07	0.06	0.27	D 0.19		0.46	
2 Windrow	Custom							
3 Bale	Custom							
4 Load & Stack	Custom							
5 Windrow	Custom							
6 Bale	Custom							
7 Load & Stack	Custom							
8 Windrow	Custom							
9 Bale	Custom							
10 Load & Stack	Custom							
11 All Irrig.	Labor	2.50						
Subtotal		2.57 Hrs		0.27	0.19		\$0.46	

Diesel 0.37 Gal @ \$0.65 \$0.24

Materials & Services		Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Fertilizer	0-46-0	1	60 lb.P20	0.19	11.40	\$11.40	
Custom	Windrower	2	1 ac	7.50	7.50	7.50	
	Baleing	3	76 bale	0.35	26.60	26.60	
	Load & Stack	4	2.5 stack	9.71	24.28	24.27	
	Windrower	5	1 ac	7.50	7.50	7.50	
	Baleing	6	62 bale	0.35	21.70	21.70	
	Load & Stack	7	2 stack	9.71	19.42	19.42	
	Windrower	8	1 ac	7.50	7.50	7.50	
	Baleing	9	46 bale	0.35	16.10	16.10	
	Load & Stack	10	1.4 stack	9.71	13.59	13.59	
Other	Water Tax	11	1 ac	18.50	18.50	18.50	
Subtotal						\$174.09	
Total Operating Costs excluding Interest & Unpaid Labor						\$174.55	
Interest on Oper. Capital \$174.55 @ 8.3% for 8 Months						9.66	
Unpaid Labor 2.57 Hours \$6.00 /hr						15.43	
Total Operating Costs						\$199.64	

Projected Returns

Hay 6 Ton @

Total Returns

Net Return above Operating Costs

DESCRIPTION OF THE PIVOT IRRIGATED BUDGETS, NEBRASKA PANHANDLE

These budgets are intended to be representative of farms in the panhandle using center pivot irrigation.

Items of machinery used are listed below along with use levels and cost assumptions. Tooling and cost assumptions for each operation are also listed. A summary table providing total cost estimates precedes the operating cost worksheets.

P2 1994 Machinery List -- Panhandle Pivot Irrigated						
Mcode	Machine	Price	Annual Use	Years to Trade	Trade in	Repairs
Power Units						
1	Elec Pivot 206' head	68,500	900 hr	20	0	1.18/hr
16	Tractor 120 hp diesel cab	61,289	300 hr	20	7,864	3.68/hr
17	Tractor 150 hp diesel cab	65,573	600 hr	10	19,370	3.93/hr
20	Tractor 220 hp diesel cab FWA	95,432	600 hr	10	28,189	5.73/hr
84	Combine 185 hp	90,000	200 hr	10	16,977	15.44/hr
Implements						
23	Plow 8x18"	14,811	800 ac	12	2,051	2.00/ac
31	Tandem Disc 28'	21,979	1,500 ac	15	2,111	.61/ac
34	Subsoiler 13.5'	5,139	200 ac	20	268	.20/ac
37	Field Cultivator 30'	12,949	400 ac	12	1,793	.14/ac
41	Row Crop Cultivator 8 row x 30"	5,847	1,800 ac	7	1,492	.40/ac
48	Rotary Hoe 20'	5,461	600 ac	15	525	.08/ac
50	Roller/Packer 21'	22,000	1,000 ac	15	2,112	.41/ac
60	Grain Drill 24' hoe 3x8 10" spacing	22,250	400 ac	20	1,160	1.44/ac
69	Planter 8 row x 30"	20,155	500 ac	10	3,564	1.24/ac
77	Sprayer 2-200 gallon 15' saddle tanks	2,600	1,100 ac	10	429	.15/ac
80	Bean Rod 20'	3,585	400 ac	15	367	.07/ac
81	Bean Cutter 6 row x 30"	4,066	400 ac	15	417	.18/ac
87	6 row corn head	33,562	760 ac	10	6,331	1.50/ac
89	15' grain head	17,251	760 ac	10	3,255	.78/ac
92	15' pickup head	17,378	760 ac	10	3,278	.79/ac
95	Swather/Conditioner 14' pull-type	21,042	800 ac	10	3,969	1.17/ac
100	Small Square Baler wire tie	11,437	1,600 ton	6	3,077	.85/ton
104	Defoliator 4 row x 30"	17,500	300 ac	15	1,792	1.33/ac
107	Beet Lifter 4 row x 30"	60,000	300 ac	15	5,760	5.62/ac

1994 Operations List* Panhandle Pivot Irrigated

P2 Operation	Power Code	Imp Code	Energy/hr			% Lube
All Irrig.	1		56.00	Kwh	Elec	1.3%
Apply Anhy	17	Rent	7.70	Gal	Diesel	10%
Bale	17	100	7.70	Gal	Diesel	10%
Combine	84	87	9.50	Gal	Diesel	10%
Combine	84	89	9.50	Gal	Diesel	10%
Combine	84	92	9.50	Gal	Diesel	10%
Cut	16	81	6.10	Gal	Diesel	10%
Defoliate	16	104	6.10	Gal	Diesel	10%
Disc	20	31	11.30	Gal	Diesel	10%
Drill	16	60	6.10	Gal	Diesel	10%
Field cult	17	37	7.70	Gal	Diesel	10%
Haul & Stack	Custom					
Hoe	16	48	6.10	Gal	Diesel	10%
Lift	17	107	7.70	Gal	Diesel	10%
Plant	16	69	6.10	Gal	Diesel	10%
Plow	20	23	11.30	Gal	Diesel	10%
Rod	17	80	7.70	Gal	Diesel	10%
Roll	17	50	7.70	Gal	Diesel	10%
Row Crop Cult	17	41	7.70	Gal	Diesel	10%
Spray	Custom					
Spray in Tandem		77				
Spread Fert.	16		6.10	Gal	Diesel	10%
Subsoil	20	34	11.30	Gal	Diesel	10%
Thin	Hire					
Thin & weed	Hire					
Truck	Custom					
Weed	Hire	Rent				
Windrow	17	95	7.70	Gal	Diesel	10%

*See previous page for power unit that corresponds to power code and implement code. The % lube is lube charge as a percentage of the fuel cost.

**Budgeted Production Costs Summary
Panhandle Pivot Irrigated 1994**

Budget Crop Description	A9 Sugar Beets Pivot Irrig	A10 Dry Beans Pivot Irrig	A11 Corn Grain Pivot Irrig	A12 Wheat Pivot Irrig	A13 Hay Alfalfa Pivot Irrig
Yield	20.0 Ton	19.0 Cwt	130.0 Bu	65.0 Bu	6.0 Ton
Mgt Fee/unit	\$2.00	\$1.25	\$0.15	\$0.15	\$3.00
Land Invest.	\$700	\$700	\$700	\$700	\$700
Unimp.	423	423	423	423	423
Irrig	277	277	277	277	277
Mach Invest	\$415.48	\$305.48	\$228.39	\$226.38	\$187.61
Op Cost/ac	\$342.82	\$163.97	\$184.23	\$109.08	\$228.73
Overhead	17.14	8.20	9.21	5.45	11.44
Unpaid Mgt	40.00	23.75	19.50	9.75	18.00
RE Taxes	\$8.00	\$8.00	\$8.00	\$8.00	\$8.00
Land Interest	24.53	24.53	24.53	24.53	24.53
Irrig Interest	19.11	19.11	19.11	19.11	19.11
Irrig Deprec	28.00	28.00	28.00	28.00	28.00
Land Subtotal	\$79.65	\$79.65	\$79.65	\$79.65	\$79.65
Mach. Interest	\$28.67	\$21.08	\$15.76	\$15.62	\$12.95
Mach. Deprec	44.82	35.22	27.21	26.08	23.76
Mach. Subtotal	\$73.49	\$56.30	\$42.97	\$41.70	\$36.71
Total Owner Cost	\$153.14	\$135.95	\$122.62	\$121.35	\$116.35
Estab Costs					\$34.58
Total Cost/ac	\$553.10	\$331.86	\$335.56	\$245.63	\$409.10
Total Cost/unit	\$27.65	\$17.47	\$2.58	\$3.78	\$68.18

A9

Returns Above Operating Costs Budget Worksheet
 Sugar Beets, Pivot Irrigated, Elec, 206' head
 20 Acre-inches 20 Ton Beets

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Disc	12.14 Ac/hr	0.10	0.08	0.67 D	0.47	0.61		1.75	
2 Apply Anhy	Custom								
3 Spread Fert.	16.04 Ac/hr	0.07	0.06	0.27 D	0.23			0.50	
4 Plow	3.47 Ac/hr	0.35	0.29	2.33 D	1.65	2		5.98	
5 Roll	9.16 Ac/hr	0.13	0.11	0.60 D	0.43	0.41		1.44	
6 Roll	9.16 Ac/hr	0.13	0.11	0.60 D	0.43	0.41		1.44	
7 Spray in Tandem	9.16 Ac/hr		0.11			0.15		0.15	
8 Plant	6.53 Ac/hr	0.18	0.15	0.67 D	0.56	1.24		2.47	
9 Hoe	17.92 Ac/hr	0.07	0.06	0.24 D	0.21	0.08		0.53	
10 Row Crop Cult	5.8 Ac/hr	0.20	0.17	0.95 D	0.68	0.4		2.03	
11 Row Crop Cult	7.05 Ac/hr	0.17	0.14	0.78 D	0.56	0.4		1.74	
12 Row Crop Cult	7.05 Ac/hr	0.17	0.14	0.78 D	0.56	0.4		1.74	
13 Thin	Hire								
14 Thin & Weed	Hire								
15 Weed	Hire								
16 All Irrig.	800 GPM	0.67	11.22	47.60 E	13.24			60.84	
17 Defoliate	5.6 Ac/hr	0.22	0.18	0.78 D	0.66	1.33		2.77	
18 Lift	2.8 Ac/hr	0.43	0.36	1.97 D	1.40	5.62		8.99	
19 Truck	Custom								
20 Subsoil	8.48 Ac/hr	0.14	0.12	0.95 D	0.68	0.2		1.83	
Subtotal		3.04 Hrs		59.19	21.76	13.25		\$94.20	
Diesel	16.21 Gal @ \$0.65			\$10.54					
Electricity	628.32 KWH @ \$0.075			\$47.12					

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Sugar Beets	8	2	lb	20.00	40.00	\$40.00	
Fertilizer	Anhy N	2	100	lb. N	0.12	12.00	12.00	
	0-46-0	3	50	lb.P20	0.19	9.50	9.50	
Chemicals	RoNeet 6E	7	2	pt	6.44	12.88	12.88	
Custom	Anhy Applic	2	1	ac	5.00	5.00	5.00	
	Truck	19	20	ton	2.50	50.00	50.00	
Rental	Spread Fert.	3	1	ac	1.00	1.00	1.00	
Other	Thinning	13	1	ac	40.00	40.00	40.00	
	Thinning & Weed	14	1	ac	25.00	25.00	25.00	
	Weeding	15	1	ac	18.00	18.00	18.00	
Subtotal							\$213.38	
Total Operating Costs excluding Interest & Unpaid Labor							\$307.58	
Interest on Oper. Capital			\$307.58 @ 8.3%	for 8 Months			17.02	
Unpaid Labor			3.04 Hours	\$6.00 /hr			18.22	
Total Operating Costs							\$342.82	

Projected Returns

Beets 20 Ton @

Total Returns

Net Return above Operating Costs

Returns Above Operating Costs Budget Worksheet
 Dry Edible Beans, Pivot Irrigated, Elec., 206' Head
 10 Acre-inches 19 Cwt Beans

Operation #	Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub-Total	Your Estimate
			Labor	Mach	Fuel & Lube	Repairs Power	Impl		
1	Disc	12.14 Ac/hr	0.10	0.08	0.67 D	0.47	0.61	1.75	
2	Plow	3.47 Ac/hr	0.35	0.29	2.33 D	1.65	2	5.98	
3	Roll	9.16 Ac/hr	0.13	0.11	0.60 D	0.43	0.41	1.44	
4	Roll	9.16 Ac/hr	0.13	0.11	0.60 D	0.43	0.41	1.44	
5	Spray in Tandem	9.16 Ac/hr		0.11			0.15	0.15	
6	Plant	6.53 Ac/hr	0.18	0.15	0.67 D	0.56	1.24	2.47	
7	Hoe	17.92 Ac/hr	0.07	0.06	0.24 D	0.21	0.08	0.53	
8	Row Crop Cult	5.8 Ac/hr	0.20	0.17	0.95 D	0.68	0.4	2.03	
9	Row Crop Cult	7.05 Ac/hr	0.17	0.14	0.78 D	0.56	0.4	1.74	
10	Row Crop Cult	7.05 Ac/hr	0.17	0.14	0.78 D	0.56	0.4	1.74	
11	Weed Hire								
12	All Irrig.	800 GPM	0.34	5.61	23.80 E	6.62		30.42	
13	Spray Custom								
14	Cut	7.64 Ac/hr	0.16	0.13	0.57 D	0.48	0.18	1.23	
15	Rod	8.48 Ac/hr	0.14	0.12	0.65 D	0.46	0.07	1.18	
16	Combine	5.09 Ac/hr	0.24	0.20	1.33 D	3.03	0.79	5.15	
17	Truck Custom								
18	Disc	12.14 Ac/hr	0.10	0.08	0.67 D	0.47	0.61	1.75	
Subtotal			2.47 Hrs		34.64	16.61	7.75	\$59.00	

Diesel 15.14 Gal @ \$0.65 \$9.84
 Electricity 314.16 KWH @ \$0.075 \$23.56

Materials & Services		Operation #	Units per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Edible Beans	6	0.5	cwt	50.00	25.00	\$25.00	
Fertilizer	10-34-0 w/zn	6	8	gal	1.25	10.00	10.00	
Chemicals	Eptam 7E	5	2.5	pt	3.42	8.55	8.55	
	Sonalan	5	2	pt	4.04	8.08	8.08	
	Asana	13	5.8	oz	0.94	5.45	5.45	
Custom	Aerial Spray	13	1	ac	4.00	4.00	4.00	
	Truck	17	19	cwt	0.17	3.23	3.23	
Other	Weeding	11	1	ac	18.00	18.00	18.00	
Subtotal							\$82.31	
Total Operating Costs excluding Interest & Unpaid Labor							\$141.31	
Interest on Oper. Capital			\$141.31 @ 8.3%		for 8 Months		7.82	
Unpaid Labor			2.47 Hours	\$6.00 /hr			14.84	
Total Operating Costs							\$163.97	

Projected Returns

Beans

19 Cwt

@

Total Returns

Net Return above Operating Costs

Returns Above Operating Costs Budget Worksheet
 All Corn for Grain, Pivot Irrigated, Elec, 206' Head
 18 Acre-inches 130 Bu Corn

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Disc	12.14 Ac/hr	0.10	0.08	0.67 D	0.47	0.61		1.75	
2 Apply Anhy	Custom								
3 Plow	3.47 Ac/hr	0.35	0.29	2.33 D	1.65	2		5.98	
4 Roll	9.16 Ac/hr	0.13	0.11	0.60 D	0.43	0.41		1.44	
5 Spray in Tandem	9.16 Ac/hr		0.11			0.15		0.15	
6 Plant	6.53 Ac/hr	0.18	0.15	0.67 D	0.56	1.24		2.47	
7 Hoe	17.92 Ac/hr	0.07	0.06	0.24 D	0.21	0.08		0.53	
8 Row Crop Cult	7.05 Ac/hr	0.17	0.14	0.78 D	0.56	0.4		1.74	
9 Row Crop Cult	7.05 Ac/hr	0.17	0.14	0.78 D	0.56	0.4		1.74	
10 All Irrig.	800 GPM	0.61	10.10	42.84 E	11.92			54.76	
11 Combine	6.5 Ac/hr	0.18	0.15	1.05 D	2.38	1.5		4.93	
12 Truck	Custom								
Subtotal		1.95 Hrs		49.96	18.74	6.79		\$75.49	

Diesel 9.89 Gal @ \$0.65 \$6.43
 Electricity 565.60 KWH @ \$0.075 \$42.42

Materials & Services		Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	6	0.38 bag	79.23	30.11	\$30.11	
Fertilizer	Anhy N	2	130 lb. N	0.12	15.60	15.60	
	10-34-0 w/zn	6	9 gal	1.25	11.25	11.25	
Chemicals	Lasso II 15G	5	5.5 lb	0.99	5.45	5.45	
	2,4-D Amine	9	0.25 pt	1.34	0.34	0.34	
	Banvel	9	0.5 pt	9.31	4.66	4.65	
Custom	Anhy Applic	2	1 ac	5.00	5.00	5.00	
	Truck	12	130 bu	0.12	15.60	15.60	
Subtotal						\$87.99	
Total Operating Costs excluding Interest & Unpaid Labor						\$163.48	
Interest on Oper. Capital			\$163.48 @ 8.3% for 8 Months			9.05	
Unpaid Labor			1.95 Hours \$6.00 /hr			11.70	
Total Operating Costs						\$184.23	

Projected Returns

Corn 130 Bu @

Total Returns

Net Return above Operating Costs

Returns Above Operating Costs Budget Worksheet
 Winter Wheat, Pivot Irrigated, Elec, 206' Head
 10 Acre-inches 65 Bu Wheat

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Disc	12.14 Ac/hr	0.10	0.08	0.67 D	0.47	0.61		1.75	
2 Plow	3.47 Ac/hr	0.35	0.29	2.33 D	1.65	2		5.98	
3 Apply Anhy	Custom								
4 Spread Fert.	16.04 Ac/hr	0.07	0.06	0.27 D	0.23			0.50	
5 Field cult	13.53 Ac/hr	0.08	0.07	0.41 D	0.29	0.14		0.84	
6 Field cult	13.53 Ac/hr	0.08	0.07	0.41 D	0.29	0.14		0.84	
7 Drill	8.44 Ac/hr	0.14	0.12	0.52 D	0.44	1.44		2.40	
8 All Irrig.	800 GPM	0.34	5.61	23.80 E	6.62			30.42	
9 Combine	5.09 Ac/hr	0.24	0.20	1.33 D	3.03	0.78		5.14	
10 Truck	Custom								
Subtotal		1.40 Hrs		29.74	13.02	5.11		\$47.87	

Diesel 8.26 Gal @ \$0.65 \$5.37
 Electricity 314.16 KWH @ \$0.075 \$23.56

Materials & Services		Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Wheat	7	90 lb	0.17	15.30	\$15.30	
Fertilizer	Anhy N	3	90 lb. N	0.12	10.80	10.80	
	0-46-0	4	40 lb.P20	0.19	7.60	7.60	
Custom	Anhy Applic	3	1 ac	5.00	5.00	5.00	
	Truck	10	65 bu	0.12	7.80	7.80	
Rental	Spread Fert.	4	1 ac	1.00	1.00	1.00	
Subtotal						\$47.50	
Total Operating Costs excluding Interest & Unpaid Labor						\$95.37	
Interest on Oper. Capital			\$95.37 @ 8.3% for 8 Months			5.28	
Unpaid Labor			1.40 Hours \$6.00 /hr			8.43	
Total Operating Costs						\$109.08	

Projected Returns

Wheat 65 Bu @

Total Returns

Net Return above Operating Costs

Returns Above Operating Costs Budget Worksheet
 Alfalfa Hay, Pivot Irrigated, Elec, 206' Head
 25 Acre-inches 6 Ton Hay

Operation # Description		Operation Rate	Hrs per Acre		Cost per Acre				Your Estimate
			Labor	Mach	Fuel& Lube	Repairs Power Impl	Sub- Total		
1	Spread Fert.	16.04 Ac/hr	0.07	0.06	0.27	D 0.23		0.50	
2	Windrow	3.81 Ac/hr	0.31	0.26	1.45	D 1.03	1.17	3.65	
3	Bale	8.4 Ton/hr	0.29	0.24	1.30	D 0.93	1.71	3.94	
4	Haul & Stack	Custom							
5	Windrow	3.81 Ac/hr	0.31	0.26	1.45	D 1.03	1.17	3.65	
6	Bale	8.4 Ton/hr	0.29	0.24	1.30	D 0.93	1.71	3.94	
7	Haul & Stack	Custom							
8	Windrow	3.81 Ac/hr	0.31	0.26	1.45	D 1.03	1.17	3.65	
9	Bale	8.4 Ton/hr	0.29	0.24	1.34	D 0.95	1.71	4.00	
10	Haul & Stack	Custom							
11	All Irrig.	800 GPM	0.84	14.03	59.49	E16.55		76.04	
Subtotal			2.71	Hrs	68.05	22.68	8.64	\$99.37	

Diesel 11.92 Gal @ \$0.65 \$7.75
 Electricity 785.68 KWH @ \$0.075 \$58.93

Materials & Services		Operation #	Units per Acre	Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Fertilizer	0-46-0	1	60 lb.P20	0.19	11.40	\$11.40	
Custom	Load & Stack	4	2.5 stack	9.71	24.28	24.28	
	Load & Stack	7	2 stack	9.71	19.42	19.42	
	Load & Stack	10	1.5 stack	9.71	14.57	14.57	
Rental	Spread Fert.	1	1 ac	1.00	1.00	1.00	
Other	bale(Wire)	3	76 bale	0.17	12.92	12.92	
	bale(Wire)	6	62 bale	0.17	10.54	10.54	
	bale(Wire)	9	46 bale	0.17	7.82	7.82	
Subtotal						\$101.94	
Total Operating Costs excluding Interest & Unpaid Labor						\$201.31	
Interest on Oper. Capital \$201.31 @ 8.3% for 8 Months						11.14	
Unpaid Labor 2.71 Hours \$6.00 /hr						16.28	
Total Operating Costs						\$228.73	

Projected Returns

Hay 6 Ton @
 Total Returns
 Net Return above Operating Costs

DESCRIPTION OF THE NON-IRRIGATED BUDGETS, NEBRASKA PANHANDLE

These budgets are intended to be representative of summer fallow winter wheat farms in the panhandle.

Items of machinery used are listed below along with use levels and cost assumptions. Tooling and cost assumptions for each operation are also listed. A summary table providing total cost estimates precedes the operating cost budget worksheets.

NOTE: Actual equipment requirements vary depending on the fallow tillage used. A budget for millet has been included in this section.

P3 1994 Machinery List -- Panhandle Dryland Crops						
Mcode	Machine	Price	Annual Use	Years to Trade	Trade in	Repairs
Power Units						
16	Tractor 120 hp diesel cab	61,289	200 hr	10	18,103	1.23/hr
19	Tractor 190 hp diesel cab FWA	95,858	800 hr	10	28,315	7.67/hr
84	Combine 185 hp	90,000	200 hr	10	16,977	15.44/hr
Implements						
25	Chisel 24'	11,894	1,600 ac	12	1,648	.40/ac
27	Blade Plow 25' (5x5)	15,000	800 ac	15	1,440	.24/ac
31	Tandem Disc 28'	21,979	2,200 ac	10	3,886	.60/ac
37	Field Cultivator 30'	12,949	2,200 ac	10	2,290	.26/ac
41	Row Crop Cultivator 8 row x 30"	5,847	150 ac	20	305	.08/ac
46	Rodweeder 30'	8,600	1,600 ac	15	826	.17/ac
60	Grain Drill 24' hoe 3x8 10" spacing	22,250	600 ac	10	3,935	1.05/ac
69	Planter 8 row x 30"	20,155	500 ac	10	3,564	1.24/ac
73	Anhydrous Applicator 21'	8,141	500 ac	10	1,439	.22/ac
77	Sprayer 2-200 gallon 15' saddle tanks	2,600	2,200 ac	5	791	.15/ac
89	15' grain head	17,251	600 ac	12	2,549	.74/ac
92	15' pickup head	17,378	760 ac	10	3,278	.79/ac
111	Grain Auger 8" X 66' PTO	3,216	40 bu000	20	178	.07/bu000

1994 Operations List* Panhandle Dryland Crops

P3 Operation	Power Code	Imp Code	Energy/hr	% Lube
Apply Anhy	19	73	9.70 Gal Diesel	10%
Apply Anhy	19	Rent	9.70 Gal Diesel	10%
Auger	16	111	6.10 Gal Diesel	10%
Chisel	19	25	9.70 Gal Diesel	10%
Combine	84	89	11.00 Gal Diesel	10%
Combine	84	92	11.00 Gal Diesel	10%
Disc	19	31	9.70 Gal Diesel	10%
Drill	16	60	6.10 Gal Diesel	10%
Field Cult	19	37	9.70 Gal Diesel	10%
Noble	19	27	9.70 Gal Diesel	10%
Plant	16	69	6.10 Gal Diesel	10%
Rod Weed	19	46	9.70 Gal Diesel	10%
Row Crop Cult	16	41	6.10 Gal Diesel	10%
Spray	Custom			
Sprayer in tandem		77		
Spread Fert.	16	Rent	6.10 Gal Diesel	10%
Truck	Custom			
Windrow	Custom			

*See previous page for power unit that corresponds to power code and implement code. The % lube is lube charge as a percentage of the fuel cost.

Budgeted Production Costs Summary
Panhandle Dryland Crops 1994

Budget Crop Description	A15 Wheat Stubble Mulch Fallow	A16 Wheat Chemical Tillage Combo	A17 Sunflower ff wheat	A18 Millet rotated with wheat fallow
Yield	35.0 Bu	35.0 Bu	10.0 Cwt	20.0 Cwt
Mgt Fee/unit	\$0.20	\$0.20	\$0.25	\$0.25
Land Invest.	\$350	\$350	\$350	\$350
Unimp.	350	350	350	350
Irrig				
Mach Invest	\$210.14	\$169.71	\$242.13	\$220.32
Op Cost/ac	\$43.91	\$47.29	\$53.50	\$43.38
Overhead	2.20	2.36	2.68	2.17
Unpaid Mgt	7.00	7.00	2.50	5.00
RE Taxes	\$14.40	\$14.40	\$10.80	\$14.40
Land Interest	40.60	40.60	30.45	40.60
Irrig Interest				
Irrig Deprec				
Land Subtotal	\$55.00	\$55.00	\$41.25	\$55.00
Mach. Interest	\$14.50	\$11.71	\$16.71	\$15.20
Mach. Deprec	25.42	21.28	29.15	26.98
Mach. Subtotal	\$39.92	\$32.99	\$45.86	\$42.18
Total Owner Cost	\$94.92	\$87.99	\$87.11	\$97.18
Etab Costs.				
Total Cost/ac	\$148.03	\$144.64	\$145.78	\$147.73
Total Cost/unit	\$4.23	\$4.13	\$14.58	\$7.39

A15

Returns Above Operating Costs Budget Worksheet
 Winter Wheat of wheat/fallow rotation, stubble mulch
 35 Bu Wheat

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Noble	16 Ac/hr	0.07	0.06	0.43 D	0.48	0.24		1.15	
2 Noble	16 Ac/hr	0.07	0.06	0.43 D	0.48	0.24		1.15	
3 Noble	16 Ac/hr	0.07	0.06	0.43 D	0.48	0.24		1.15	
4 Noble	16 Ac/hr	0.07	0.06	0.43 D	0.48	0.24		1.15	
5 Apply Anhy	Custom								
6 Spread Fert.	16.04 Ac/hr	0.07	0.06	0.27 D	0.08			0.35	
7 Rod Weed	17.45 Ac/hr	0.07	0.06	0.40 D	0.44	0.17		1.01	
8 Rod Weed	17.45 Ac/hr	0.07	0.06	0.40 D	0.44	0.17		1.01	
9 Drill	8.44 Ac/hr	0.14	0.12	0.52 D	0.15	1.05		1.72	
10 Combine	5.09 Ac/hr	0.24	0.20	1.55 D	3.03	0.79		5.37	
11 Truck	Custom								
12 Auger	2500 Bu/hr	0.01	0.01	0.06 D	0.02			0.08	
Subtotal		0.90	Hrs	4.92	6.08	3.14		\$14.14	

Diesel 6.85 Gal @ \$0.65 \$4.45

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Wheat	9	45	lb	0.17	7.65	\$7.65	
Fertilizer	Anhy N	5	40	lb. N	0.12	4.80	4.80	
	0-46-0	6	30	lb.P20	0.19	5.70	5.70	
Custom	Truck	11	35	bu	0.12	4.20	4.20	
Subtotal							\$22.35	
Total Operating Costs excluding Interest & Unpaid Labor							\$36.49	
Interest on Oper. Capital			\$36.49 @	8.3%	for 8 Months		2.02	
Unpaid Labor			0.90	Hours	\$6.00 /hr		5.40	
Total Operating Costs							\$43.91	

Projected Returns

Wheat 35 Bu @

Total Returns

Net Return above Operating Costs

A16

Returns Above Operating Costs Budget Worksheet
 Winter Wheat of wheat/fallow rot., chemical & tillage
 35 Bu Wheat

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Power	Repairs Impl			
1 Spray	Custom								
2 Noble	16 Ac/hr	0.07	0.06	0.43 D	0.48	0.24		1.15	
3 Noble	16 Ac/hr	0.07	0.06	0.43 D	0.48	0.24		1.15	
4 Apply Anhy	Custom								
5 Rod Weed	17.45 Ac/hr	0.07	0.06	0.40 D	0.44	0.17		1.01	
6 Drill	8.44 Ac/hr	0.14	0.12	0.52 D	0.15	1.05		1.72	
7 Combine	5.09 Ac/hr	0.24	0.20	1.55 D	3.03	0.79		5.37	
8 Truck	Custom								
9 Auger	2500 Bu/hr	0.01	0.01	0.06 D	0.02			0.08	
Subtotal		0.61 Hrs		3.39	4.60	2.49		\$10.48	

Diesel 4.74 Gal @ \$0.65 \$3.08

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Wheat	6	45	lb	0.17	7.65	\$7.65	
Fertilizer	Anhy N	4	70	lb. N	0.12	8.40	8.40	
Chemicals	Atrazine 4L	1	1	pt	1.33	1.33	1.33	
	Roundup	1	1	pt	5.77	5.77	5.77	
Custom	Broadcast Spray	1	1	ac	3.50	3.50	3.50	
	Truck	8	35	bu	0.12	4.20	4.20	
Subtotal							\$30.85	
Total Operating Costs excluding Interest & Unpaid Labor							\$41.33	
Interest on Oper. Capital			\$41.33 @ 8.3% for 8 Months				2.29	
Unpaid Labor			0.61 Hours \$6.00 /hr				3.67	
Total Operating Costs							\$47.29	

Projected Returns

Wheat 35 Bu @

Total Returns

Net Return above Operating Costs

A17

Returns Above Operating Costs Budget Worksheet
Sunflower, wheat/sunflower/fallow rot., stubble mulch
10 Cwt Seed

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Power	Repairs Impl			
1 Noble	16 Ac/hr	0.07	0.06	0.43 D	0.48	0.24		1.15	
2 Chisel	12.85 Ac/hr	0.10	0.08	0.54 D	0.60	0.4		1.54	
3 Apply Anhy	Custom								
4 Disc	13.92 Ac/hr	0.08	0.07	0.50 D	0.55	0.6		1.65	
5 Field Cult	14.05 Ac/hr	0.08	0.07	0.49 D	0.55	0.26		1.30	
6 Sprayer in tand	14.05 Ac/hr		0.07			0.15		0.15	
7 Rod Weed	17.45 Ac/hr	0.07	0.06	0.40 D	0.44	0.17		1.01	
8 Plant	6.53 Ac/hr	0.18	0.15	0.67 D	0.19	1.24		2.10	
9 Row Crop Cult	7.05 Ac/hr	0.17	0.14	0.62 D	0.17	0.08		0.87	
10 Combine	5.09 Ac/hr	0.24	0.20	1.55 D	3.03	0.74		5.32	
11 Truck	Custom								
Subtotal		1.00 Hrs		5.20	6.01	3.88		\$15.09	

Diesel 7.27 Gal @ \$0.65 \$4.72

Materials & Services		Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Sunflower	8	5 lb	3.20	16.00	\$16.00	
Fertilizer	Anhy N	3	40 lb. N	0.12	4.80	4.80	
Chemicals	Prowl	6	2 pt	3.72	7.44	7.44	
Custom	Truck	11	10 cwt	0.17	1.70	1.70	
Subtotal						\$29.94	
Total Operating Costs excluding Interest & Unpaid Labor						\$45.03	
Interest on Oper. Capital		\$45.03 @ 8.3% for 8 Months				2.49	
Unpaid Labor		1.00 Hours \$6.00 /hr				5.98	
Total Operating Costs						\$53.50	

Projected Returns

Seed 10 Cwt @

Total Returns

Net Return above Operating Costs

Returns Above Operating Costs Budget Worksheet
Millet of Wheat/millet rotation, stubble mulch fallow
20 Cwt Millet

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Noble	16 Ac/hr	0.07	0.06	0.43 D	0.48	0.24		1.15	
2 Noble	16 Ac/hr	0.07	0.06	0.43 D	0.48	0.24		1.15	
3 Noble	16 Ac/hr	0.07	0.06	0.43 D	0.48	0.24		1.15	
4 Noble	16 Ac/hr	0.07	0.06	0.43 D	0.48	0.24		1.15	
5 Chisel	12.85 Ac/hr	0.10	0.08	0.54 D	0.60	0.4		1.54	
6 Apply Anhy	Custom								
7 Disc	13.92 Ac/hr	0.08	0.07	0.50 D	0.55	0.6		1.65	
8 Rod Weed	17.45 Ac/hr	0.07	0.06	0.40 D	0.44	0.17		1.01	
9 Drill	8.44 Ac/hr	0.14	0.12	0.52 D	0.15	1.05		1.72	
10 Windrow	Custom								
11 Combine	5.09 Ac/hr	0.24	0.20	1.55 D	3.03	0.74		5.32	
12 Truck	Custom								
Subtotal		0.92 Hrs		5.23	6.69	3.92		\$15.84	

Diesel 7.30 Gal @ \$0.65 \$4.74

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Millet	9	12	lb	0.36	4.32	\$4.32	
Fertilizer	Anhy N	6	40	lb. N	0.12	4.80	4.80	
Custom	Windrower	10	1	ac	7.50	7.50	7.50	
	Truck	12	20	bu	0.17	3.40	3.40	
Subtotal							\$20.02	
Total Operating Costs excluding Interest & Unpaid Labor							\$35.86	
Interest on Oper. Capital			\$35.86 @	8.3%	for 8 Months		1.98	
Unpaid Labor			0.92	Hours	\$6.00 /hr		5.54	
Total Operating Costs							\$43.38	

Projected Returns

Millet 20 Cwt @

Total Returns

Net Return above Operating Costs

DESCRIPTION OF THE CROP BUDGETS FOR SOUTHWEST NEBRASKA

Due to variations in soils, precipitation, topography, depth to water table, etc., one set of operations cannot be selected as typical. Therefore, the crop budgets represent acreages, practices, and machinery sizes that are deemed representative of the area. An attempt has been made also to use machinery sizes that are consistent with the acreages farmed.

Items of machinery used are listed below along with use levels and cost assumptions. Tooling and cost assumptions for each operation are also listed. A summary table providing total cost estimates precedes the operating cost budget worksheets.

SW 1994 Machinery List -- Southwestern Nebraska						
Mcode	Machine	Price	Annual Use	Years to Trade	Trade in	Repairs
Power Units						
1	Elec Pivot 206' head	68,500	900 hr	20	0	1.18/hr
2	Diesel Pivot 206' head	71,900	900 hr	17	0	1.49/hr
3	Elec Pivot 281' head	74,700	900 hr	20	0	1.19/hr
4	Diesel Pivot 281' head	80,600	900 hr	17	0	1.66/hr
9	Elec Gated 148' head	60,000	900 hr	24	0	.83/hr
10	Diesel Gated 148' head	65,600	900 hr	22	0	1.08/hr
15	Tractor 100 hp diesel cab	47,800	500 hr	10	14,120	2.39/hr
17	Tractor 150 hp diesel cab	65,573	400 hr	10	19,370	2.62/hr
84	Combine 185 hp	90,000	200 hr	10	16,977	15.44/hr
94	Swather/Conditioner 14' self prop	45,463	150 hr	10	8,575	15.08/hr
Implements						
25	Chisel 24'	11,894	600 ac	15	1,142	.29/ac
27	Blade Plow 25' (5x5)	15,000	600 ac	15	1,440	.20/ac
31	Tandem Disc 28'	21,979	1,100 ac	15	2,111	.48/ac
37	Field Cultivator 30'	12,949	1,200 ac	8	2,923	.19/ac
38	Row Crop Cultivator 6 row x 30"	3,803	800 ac	10	672	.28/ac
39	Row Crop Cultivator 6 row x 36"	5,445	600 ac	15	522	.31/ac
40	Ridge-Till Cultivator 6 row x 30"	7,041	600 ac	15	676	.60/ac
45	Rodweeder 24'	7,300	500 ac	15	701	.13/ac
48	Rotary Hoe 20'	5,461	200 ac	15	525	.05/ac
49	Roller/Packer 15'	11,000	300 ac	15	1,055	.22/ac
53	Spike Tooth Harrow 24'	1,172	150 ac	20	61	.01/ac
61	Grain Drill 30' hoe 3x10 10" spacing	28,500	800 ac	15	2,737	1.82/ac
66	Planter 6 row x 30"	15,640	500 ac	7	3,990	1.18/ac
67	Planter 6 row x 36"	14,437	400 ac	10	2,553	.86/ac
68	Ridge-Till Planter 6 row x 30"	14,495	400 ac	10	2,563	1.86/ac
75	Sprayer 500 gallon 40' pull-type	4,780	450 ac	20	232	.07/ac
77	Sprayer 2-200 gallon 15' saddle tanks	2,600	1,100 ac	10	429	.15/ac
81	Bean Cutter 6 row x 30"	4,066	200 ac	10	767	.09/ac
87	6 row corn head	33,562	760 ac	10	6,331	1.50/ac
89	15' grain head	17,251	760 ac	10	3,255	.78/ac
92	15' pickup head	17,378	760 ac	10	3,278	.79/ac
95	Swather/Conditioner 14' pull-type	21,042	500 ac	15	2,155	1.12/ac
99	Forage Harvester 3 row	27,642	150 ac	10	4,562	1.58/ac
100	Small Square Baler wire tie	11,437	400 ton	15	1,025	.59/ton
101	Large Round Baler	19,182	800 ton	10	3,166	.85/ton
103	Bale Wagon & Stacker 144 bales/loan	22,150	200 ac	15	2,134	3.53/ac
109	Rolling Stalk Shredder 15'	8,450	500 ac	12	1,249	.35/ac
110	Rolling Stalk Shredder 18'	11,400	500 ac	15	1,167	.40/ac
111	Grain Auger 8" X 66' PTO	3,216	150 bu000	20	178	.21/bu000

1994 Operations List* Southwestern Nebraska

SW Operation	Power Code	Imp Code	Energy/hr		% Lube
All Irrig	Labor				
All Irrig.	1		56.00	Kwh Elec	1.3%
All Irrig.	2		4.00	Gal Diesel	10%
All Irrig.	3		73.00	Kwh Elec	1.3%
All Irrig.	4		5.20	Gal Diesel	10%
All Irrig.	9		46.00	Kwh Elec	1.1%
All Irrig.	10		3.35	Gal Diesel	10%
Apply Anhy	17	Rent	7.70	Gal Diesel	10%
Auger	15	111	5.10	Gal Diesel	10%
Bale	15	100	5.10	Gal Diesel	10%
Bale	15	101	5.10	Gal Diesel	10%
Bale	Custom				
Bale	Custom				
Chisel	17	25	7.70	Gal Diesel	10%
Chop	17	99	7.70	Gal Diesel	10%
Combine	84	87	9.50	Gal Diesel	10%
Combine	84	89	9.50	Gal Diesel	10%
Combine	84	92	9.50	Gal Diesel	10%
Cut	15	81	5.10	Gal Diesel	10%
Disc	17	31	7.70	Gal Diesel	10%
Drill	15	61	5.10	Gal Diesel	10%
Dry	Custom				
Field Cult	17	37	7.70	Gal Diesel	10%
Harrow	15	53	5.10	Gal Diesel	10%
Harrow	15	53	5.10	Gal Diesel	10%
Hoe	15	48	5.10	Gal Diesel	10%
Move Bales	Custom				
Noble	17	27	7.70	Gal Diesel	10%
Pack	17		7.70	Gal Diesel	10%
Plant	15	66	5.10	Gal Diesel	10%
Plant	15	67	5.10	Gal Diesel	10%
Plant	17	68	7.70	Gal Diesel	10%
Ridge Cult	17	40	7.70	Gal Diesel	10%
Rod Weeder	17	45	7.70	Gal Diesel	10%
Roller	15	49	5.10	Gal Diesel	10%
Row Crop Cult	15	38	5.10	Gal Diesel	10%
Row Crop Cult	15	39	5.10	Gal Diesel	10%
Shred	17	109	7.70	Gal Diesel	10%
Shred	17	110	7.70	Gal Diesel	10%
Spray	15	75	5.10	Gal Diesel	10%
Spray	Custom				
Spray w/Disc		77			
Spread Fert.	Custom				
Stack	15	103	5.10	Gal Diesel	10%
Truck	Custom				
Windrow	15	95	5.10	Gal Diesel	10%
Windrow	94		3.80	Gal Diesel	10%

*See previous page for power unit that corresponds to power code and implement code. The % lube is lube charge as a percentage of the fuel cost.

Budgeted Production Costs Summary, Southwest Nebraska 1994

Budget Crop Description	B2 Corn Grain Gravity Cont.	B3 Corn Silage Gravity ff Corn	B4 Corn Grain Ditch	B5 Corn Grain Gravity Ridge	B6 Corn Grain Pivot Cont. Fine	B7 Corn Grain Pivot Cont. Sandy	B8 Pinto Bean	B9 Soybean Pivot ff Corn	B10 Alfalfa Estab Pivot Fall	B11 Alfalfa Hay Pivot	B12 Alfalfa Hay Sub-irrig
Yield	135.0 Bu	20.0 Ton	140.0 Bu	140.0 Bu	135.0 Bu	135.0 Bu	20.0 cwt	45.0 Bu		5.5 Ton	6.0 Ton
Mgt Fee/unit	\$0.10	\$0.70	\$0.10	\$0.10	\$0.10	\$0.10	\$0.75	\$0.30		\$2.25	\$2.25
Land Invest.	\$1,000	\$1,000	\$1,100	\$1,000	\$820	\$820	\$820	\$820	\$820	\$820	\$500
Unimp.	671	671	1000	641	492	492	492	492	492	492	500
Irrig	329	329	100	359	328	328	328	328	328	328	
Mach Invest	\$236.89	\$345.41	\$260.70	\$222.67	\$209.26	\$209.26	\$286.67	\$173.28	\$87.20	\$345.41	\$622.53
Op Cost/ac	\$171.04	\$188.23	\$165.79	\$173.21	\$185.99	\$191.26	\$115.44	\$107.54	\$86.97	\$132.88	\$83.86
Overhead	\$8.55	\$9.41	\$8.29	\$8.66	\$9.30	\$9.56	\$5.77	\$5.38	\$4.35	\$6.64	\$4.19
Unpaid Mgt	\$13.50	\$14.00	\$14.00	\$14.00	\$13.50	\$13.50	\$15.00	\$13.50		\$12.38	\$13.50
RE Taxes	\$12.00	\$12.00	\$15.00	\$12.00	\$7.00	\$7.00	\$7.00	\$7.00		\$7.00	\$5.00
Land Interest	38.92	38.92	50.00	37.18	28.54	28.54	28.54	28.54		28.54	29.00
Irrig Interest	22.70	22.70	6.90	24.77	22.63	22.63	22.63	22.63		22.63	
Irrig Deprec	25.00	25.00	4.00	31.00	36.00	36.00	36.00	36.00		36.00	
Land Subtotal	\$98.62	\$98.62	\$83.90	\$104.95	\$94.17	\$94.17	\$94.17	\$94.17		\$94.17	\$34.00
Mach. Interest	\$16.35	\$23.83	\$17.99	\$15.36	\$14.44	\$14.44	\$19.78	\$11.96	\$6.02	\$23.83	\$42.95
Mach. Deprec	29.84	42.82	31.61	27.44	26.71	26.71	35.34	22.54	9.38	45.96	73.95
Mach. Subtotal	\$46.19	\$66.65	\$49.60	\$42.80	\$41.15	\$41.15	\$55.12	\$34.50	\$15.40	\$69.79	\$116.90
Total Owner Cost	\$144.80	\$165.27	\$133.50	\$147.75	\$135.32	\$135.32	\$149.29	\$128.66	\$15.40	\$163.96	\$150.90
Estab Costs										\$21.34	\$21.34
Total Cost/ac	\$337.90	\$376.91	\$321.58	\$343.62	\$344.11	\$349.64	\$285.50	\$255.08	\$106.72	\$337.20	\$273.80
Total Cost/unit	\$2.50	\$18.85	\$2.30	\$2.45	\$2.55	\$2.59	\$14.28	\$5.67		\$61.31	\$45.63

Budgeted Production Costs Summary, Southwest Nebraska 1994 (con't)

Budget	B13	B14	B15	B16	B17	B18	B19	B20	B21	B22	B23
Crop	Grass	Pasture	Wheat	Wheat	Wheat	Wheat	Wheat	Corn	Sorghum	Sorghum	Cane
Description	Estab	Irrig	ff Beans	Mulch	Clean	Cont.	Eco	Eco	Cont.	No-till	Hay
	Pivot	Pivot	Pivot	Fallow	Till	Chem.	Fallow	Fallow		ff Eco	
				via	Fallow	Weed				Fallow	
				Tillage		Control					
Yield		12.0 AUM	70.0 Bu	42.0 Bu	37.0 Bu	30.0 Bu	45.0 Bu	65.0 Bu	40.0 Bu	70.0 Bu	3.0 Ton
Mgt Fee/unit	\$0.25	\$1.10	\$0.20	\$0.20	\$0.15	\$0.15	\$0.15	\$0.10	\$0.10	\$0.10	\$2.00
Land Invest.	\$820	\$820	\$820	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$400
Unimp.	518	518	518	400	400	400	400	400	400	400	400
Irrig	302	302	302								
Mach Invest	\$68.93		\$176.95	\$233.10	\$230.86	\$142.72	\$221.69	\$163.42	\$214.26	\$137.45	\$173.35
Op Cost/ac	\$105.16	\$129.97	\$105.10	\$66.85	\$64.76	\$70.70	\$64.45	\$100.06	\$66.65	\$100.65	\$55.40
Overhead	\$5.26	\$6.50	\$5.26	\$3.34	\$3.24	\$3.54	\$3.22	\$5.00	\$3.33	\$5.03	\$2.77
Unpaid Mgt		\$13.20	\$14.00	\$8.40	\$5.55	\$4.50	\$6.75	\$6.50	\$4.00	\$7.00	\$6.00
RE Taxes	\$7.00	\$7.00	\$7.00	\$12.00	\$12.00	\$6.00	\$9.00	\$9.00	\$6.00	\$6.00	\$6.00
Land Interest	30.04	30.04	30.04	46.40	46.40	23.20	34.80	34.80	23.20	23.20	23.20
Irrig Interest	20.84	20.84	20.84								
Irrig Deprec	30.00	30.00	30.00								
Land Subtotal	\$87.88	\$87.88	\$87.88	\$58.40	\$58.40	\$29.20	\$43.80	\$43.80	\$29.20	\$29.20	\$29.20
Mach. Interest	\$4.76		\$12.21	\$16.08	\$15.93	\$9.85	\$15.30	\$11.28	\$14.78	\$9.48	\$11.96
Mach. Deprec	7.55		22.08	28.54	28.30	17.42	26.39	21.24	27.18	18.11	20.68
Mach. Subtotal	\$12.31		\$34.29	\$44.62	\$44.23	\$27.27	\$41.69	\$32.52	\$41.96	\$27.59	\$32.64
Total Owner Cost	\$100.19	\$87.88	\$122.17	\$103.02	\$102.63	\$56.47	\$85.49	\$76.32	\$71.16	\$56.79	\$61.84
Estab Costs		\$42.12									
Total Cost/ac	\$210.61	\$279.67	\$246.53	\$181.62	\$176.18	\$135.20	\$159.91	\$187.88	\$145.15	\$169.48	\$126.01
Total Cost/unit		\$23.31	\$3.52	\$4.32	\$4.76	\$4.51	\$3.55	\$2.89	\$3.63	\$2.42	\$42.00

B2

Returns Above Operating Costs Budget Worksheet
 Cont. Corn, Gravity Irrig, Elec, 206' Head
 15 Acre-inches 135 Bu Corn

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre					Your Estimate
		Labor	Mach	Fuel & Lube	Repairs		Sub- Total		
					Power	Impl			
1 Shred	7.72 Ac/hr	0.16	0.13	0.71 D	0.34	0.35	1.40		
2 Disc	12.14 Ac/hr	0.10	0.08	0.45 D	0.22	0.48	1.15		
3 Disc	12.14 Ac/hr	0.10	0.08	0.45 D	0.22	0.48	1.15		
4 Apply Anhy	6.87 Ac/hr	0.18	0.15	0.80 D	0.38		1.18		
5 Plant	4.9 Ac/hr	0.24	0.20	0.74 D	0.49	1.18	2.41		
6 Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.69 D	0.45	0.28	1.42		
7 Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.69 D	0.45	0.28	1.42		
8 All Irrig.	1000 GPM	1.48	6.73	23.46 E	5.59		29.05		
9 Combine	4.04 Ac/hr	0.30	0.25	1.68 D	3.82	1.5	7.00		
10 Truck	Custom								
11 Auger	2500 Bu/hr	0.06	0.05	0.20 D	0.13	0.03	0.36		
12 Dry	Custom								
Subtotal		3.06 Hrs		29.87	12.09	4.58	\$46.54		

Diesel 8.98 Gal @ \$0.65 \$5.83
 Electricity 309.58 KWH @ \$0.075 \$23.22

Materials & Services		Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	5	0.33 bag	79.23	26.15	\$26.15	
Fertilizer	Anhy N	4	140 lb. N	0.12	16.80	16.80	
	10-34-0	5	6 gal	1.22	7.32	7.32	
Chemicals	Bicep	5	0.72 qt	8.13	5.85	5.85	
	Lorsban 15G	5	6.5 lb	1.66	10.79	10.79	
Custom	Truck	10	135 bu	0.12	16.20	16.20	
	Dryer	12	135 bu	0.10	13.50	13.50	
Rental	Anhy Applic	4	1 ac	1.50	1.50	1.50	
Subtotal						\$98.11	
Total Operating Costs excluding Interest & Unpaid Labor						\$144.65	
Interest on Oper. Capital \$144.65 @ 8.3% for 8 Months						8.00	
Unpaid Labor 3.06 Hours \$6.00 /hr						18.39	
Total Operating Costs						\$171.04	

Projected Returns

Corn 135 Bu @

Total Returns

Net Return above Operating Costs

B3 Returns Above Operating Costs Budget Worksheet
 Corn Silage After Corn, Gravity Irrig. Elect., 206' Head
 15 Acre-inches 20 Ton Silage

Operation #	Description	Operation Rate	Hrs per Acre		Cost per Acre				Your Estimate
			Labor	Mach	Fuel & Lube	Power	Repairs Impl	Sub-Total	
1	Shred	7.72 Ac/hr	0.16	0.13	0.71 D	0.34	0.35	1.40	
2	Disc	12.14 Ac/hr	0.10	0.08	0.45 D	0.22	0.48	1.15	
3	Apply Anhy	6.87 Ac/hr	0.18	0.15	0.80 D	0.38		1.18	
4	Disc	12.14 Ac/hr	0.10	0.08	0.45 D	0.22	0.48	1.15	
5	Plant	4.9 Ac/hr	0.24	0.20	0.74 D	0.49	1.18	2.41	
6	Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.69 D	0.45	0.28	1.42	
7	Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.69 D	0.45	0.28	1.42	
8	All Irrig.	1000 GPM	1.48	6.73	23.46 E	5.59		29.05	
9	Chop	2.07 Ac/hr	0.58	0.48	2.66 D	1.27	1.58	5.51	
10	Truck	Custom							
11	Pack	45 Ton/hr	0.53	0.44	2.45 D	1.16		3.61	
Subtotal			3.81 Hrs		33.10	10.57	4.63	\$48.30	
Diesel		13.43 Gal @ \$0.65	\$8.73						
Electricity		309.58 KWH @ \$0.075	\$23.22						

Materials & Services		Operation #	Units per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Corn	5	0.33	bag	79.23	26.15	\$26.15	
Fertilizer	Anhy N	3	140	lb. N	0.12	16.80	16.80	
	10-34-0	5	6	gal	1.22	7.32	7.32	
Chemicals	Bicep	5	0.72	qt	8.13	5.85	5.85	
	Lorsban 15G	5	6.5	lb	1.66	10.79	10.79	
Custom	Truck	10	20	ton	2.00	40.00	40.00	
Rental	Anhy Applic	3	1	ac	1.50	1.50	1.50	
Subtotal							\$108.41	
Total Operating Costs excluding Interest & Unpaid Labor							\$156.71	
Interest on Oper. Capital		\$156.71 @ 8.3%		for 8 Months			8.67	
Unpaid Labor		3.81 Hours		\$6.00 /hr			22.85	
Total Operating Costs							\$188.23	

Projected Returns

Silage 20 Ton @

Total Returns

Net Return above Operating Costs

B4

Returns Above Operating Costs Budget Worksheet
Corn For Grain, Ditch Irrig.
16 Acre-inches 140 Bu Corn

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Shred	9.26 Ac/hr	0.13	0.11	0.59 D	0.28	0.4		1.27	
2 Apply Anhy	6.87 Ac/hr	0.18	0.15	0.80 D	0.38			1.18	
3 Chisel	6.17 Ac/hr	0.19	0.16	0.89 D	0.42	0.29		1.60	
4 Disc	12.14 Ac/hr	0.10	0.08	0.45 D	0.22	0.48		1.15	
5 Plant	5.88 Ac/hr	0.20	0.17	0.62 D	0.41	0.86		1.89	
6 Row Crop Cult	6.35 Ac/hr	0.19	0.16	0.57 D	0.38	0.31		1.26	
7 Row Crop Cult	6.35 Ac/hr	0.19	0.16	0.57 D	0.38	0.31		1.26	
8 Row Crop Cult	6.35 Ac/hr	0.19	0.16	0.57 D	0.38	0.31		1.26	
9 All Irrig.	Labor	1.67							
10 Combine	4.04 Ac/hr	0.30	0.25	1.68 D	3.82	1.5		7.00	
11 Truck	Custom								
12 Auger	2500 Bu/hr	0.07	0.06	0.20 D	0.13	0.03		0.36	
13 Dry	Custom								
Subtotal		3.42 Hrs		6.94	6.80	4.49		\$18.23	
Diesel	9.85 Gal @ \$0.65	\$6.40							

Materials & Services		Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	5	0.33 bag	79.23	26.15	\$26.15	
Fertilizer	Anhy N	2	150 lb. N	0.12	18.00	18.00	
	10-34-0	5	6 gal	1.22	7.32	7.32	
Chemicals	Bicep	5	0.72 qt	8.13	5.85	5.85	
	Lorsban 15G	5	6.5 lb	1.66	10.79	10.79	
Custom	Truck	11	140 bu	0.12	16.80	16.80	
	Dryer	13	140 bu	0.10	14.00	14.00	
Rental	Anhy Applic	2	1 ac	1.50	1.50	1.50	
Other	Water tax	9	1 ac	19.00	19.00	19.00	
Subtotal						\$119.41	
Total Operating Costs excluding Interest & Unpaid Labor						\$137.64	
Interest on Oper. Capital \$137.64 @ 8.3% for 8 Months						7.62	
Unpaid Labor 3.42 Hours \$6.00 /hr						20.53	
Total Operating Costs						\$165.79	

Projected Returns

Corn	140 Bu	@	
Crop Residue	2 AUM	@	
Total Returns			
Net Return above Operating Costs			

B5 Returns Above Operating Costs Budget Worksheet
 Ridge-Till, Corn Grain, Gravity Irrig., Diesel 206' Head
 15 Acre-inches 140 Bu Corn

		Hrs per Acre		Cost per Acre					
Operation #	Description	Operation Rate			Fuel&	Repairs	Sub-	Your Estimate	
			Labor	Mach	Lube	Power	Impl		Total
1	Shred	9.26 Ac/hr	0.13	0.11	0.59 D	0.28	0.4	1.27	
2	Spray	Custom							
3	Apply Anhy	6.87 Ac/hr	0.18	0.15	0.80 D	0.38		1.18	
4	Plant	5.88 Ac/hr	0.20	0.17	0.94 D	0.45	1.86	3.25	
5	Ridge Cult	6.35 Ac/hr	0.19	0.16	0.87 D	0.41	0.6	1.88	
6	Ridge Cult	6.35 Ac/hr	0.19	0.16	0.87 D	0.41	0.6	1.88	
7	All Irrig.	1000 GPM	1.48	6.73	16.12 D	7.27		23.39	
8	Combine	4.04 Ac/hr	0.30	0.25	1.68 D	3.82	1.5	7.00	
9	Truck	Custom							
10	Auger	2500 Bu/hr	0.07	0.06	0.20 D	0.13	0.03	0.36	
11	Dry	Custom							
Subtotal			2.75 Hrs		22.07	13.15	4.99	\$40.21	

Diesel 31.00 Gal @ \$0.65 \$20.15

Materials & Services		Operation #	Units per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Corn	4	0.33	bag	79.23	26.15	\$26.15	
Fertilizer	Anhy N	3	150	lb. N	0.12	18.00	18.00	
	10-34-0	4	6	gal	1.22	7.32	7.32	
Chemicals	2,4D Ester	2	1	pt	1.69	1.69	1.69	
	Atrazine 4L	2	2	pt	1.33	2.66	2.66	
	Bicep	4	0.72	qt	8.13	5.85	5.85	
	Lorsban 15G	4	6.5	lb	1.66	10.79	10.79	
Custom	Spray	2	1	ac	3.50	3.50	3.50	
	Truck	9	140	bu	0.12	16.80	16.80	
	Dryer	11	140	bu	0.10	14.00	14.00	
Rental	Anhy Applic	3	1	ac	1.50	1.50	1.50	
Subtotal							\$108.26	
Total Operating Costs excluding Interest & Unpaid Labor							\$148.47	
Interest on Oper. Capital			\$148.47 @ 8.3%		for 8 Months		8.22	
Unpaid Labor			2.75 Hours		\$6.00 /hr		16.52	
Total Operating Costs							\$173.21	

Projected Returns

Corn	140 Bu	@		
Crop Residue	2 AUM	@		
Total Returns				
Net Return above Operating Costs				

B6

Returns Above Operating Costs Budget Worksheet
 Cont Corn, Grain, Pivot Diesel, 281' Head, Fine Texture
 15 Acre-inches 135 Bu Corn

Operation # Description		Operation Rate	Hrs per Acre		Cost per Acre					Your Estimate
			Labor	Mach	Fuel& Lube	Repairs Power	Impl	Sub- Total		
1	Shred	7.72 Ac/hr	0.16	0.13	0.71	D	0.34	0.35	1.40	
2	Apply Anhy	6.87 Ac/hr	0.18	0.15	0.80	D	0.38		1.18	
3	Disc	12.14 Ac/hr	0.10	0.08	0.45	D	0.22	0.48	1.15	
4	Spray w/Disc	12.14 Ac/hr		0.08				0.15	0.15	
5	Disc	12.14 Ac/hr	0.10	0.08	0.45	D	0.22	0.48	1.15	
6	Plant	4.9 Ac/hr	0.24	0.20	0.74	D	0.49	1.18	2.41	
7	All Irrig.	800 GPM	0.51	8.42	31.29	D	13.97		45.26	
8	Combine	4.04 Ac/hr	0.30	0.25	1.68	D	3.82	1.5	7.00	
9	Truck	Custom								
10	Auger	2500 Bu/hr	0.06	0.05	0.20	D	0.13	0.03	0.36	
11	Dry	Custom								
Subtotal			1.63	Hrs	36.32		19.57	4.17	\$60.06	

Diesel 50.82 Gal @ \$0.65 \$33.03

Materials & Services		Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	6	0.33 bag	79.23	26.15	\$26.15	
Fertilizer	Anhy N	2	140 lb. N	0.12	16.80	16.80	
	10-34-0	6	6 gal	1.22	7.32	7.32	
Chemicals	Bicep	4	1.8 qt	8.13	14.63	14.63	
	Lorsban 15G	6	6.5 lb	1.66	10.79	10.79	
Custom	Truck	8	135 bu	0.12	16.20	16.20	
	Drying	10	135 bu	0.10	13.50	13.50	
Rental	Anhy Applic	2	1 ac	1.50	1.50	1.50	
Subtotal						\$106.89	
Total Operating Costs excluding Interest & Unpaid Labor						\$166.95	
Interest on Oper. Capital \$166.95 @ 8.3% for 8 Months						9.24	
Unpaid Labor 1.63 Hours \$6.00 /hr						9.80	
Total Operating Costs						\$185.99	

Projected Returns

Corn 135 Bu @

Total Returns

Net Return above Operating Costs

B7

Returns Above Operating Costs Budget Worksheet
Cont Corn, Grain, Pivot Diesel, 281' Head, Sandy Soil
15 Acre-inches 135 Bu Corn

Operation #	Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub-Total	Your Estimate
			Labor	Mach	Fuel & Lube	Repairs Power	Impl			
1	Shred	7.72 Ac/hr	0.16	0.13	0.71 D	0.34	0.35		1.40	
2	Apply Anhy	6.87 Ac/hr	0.18	0.15	0.80 D	0.38			1.18	
3	Disc	12.14 Ac/hr	0.10	0.08	0.45 D	0.22	0.48		1.15	
4	Spray w/Disc	12.14 Ac/hr		0.08			0.15		0.15	
5	Disc	12.14 Ac/hr	0.10	0.08	0.45 D	0.22	0.48		1.15	
6	Plant	4.9 Ac/hr	0.24	0.20	0.74 D	0.49	1.18		2.41	
7	All Irrig.	800 GPM	0.51	8.42	31.29 D	13.97			45.26	
8	Combine	4.04 Ac/hr	0.30	0.25	1.68 D	3.82	1.5		7.00	
9	Truck	Custom								
10	Auger	2500 Bu/hr	0.06	0.05	0.20 D	0.13	0.03		0.36	
11	Dry	Custom								
Subtotal			1.63 Hrs		36.32	19.57	4.17		\$60.06	

Diesel 50.82 Gal @ \$0.65 \$33.03

Materials & Services		Operation #	Units per Acre	Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Corn	6	0.33 bag	79.23	26.15	\$26.15	
Fertilizer	Anhy N	2	140 lb. N	0.12	16.80	16.80	
	10-0-0-10z	6	1 gal	2.54	2.54	2.54	
	10-34-0	6	6 gal	1.22	7.32	7.32	
	28-0-0	6	10 lb. N	0.23	2.30	2.30	
Chemicals	Bullet	4	3 qt	4.93	14.79	14.79	
	Lorsban 15G	6	6.5 lb	1.66	10.79	10.79	
Custom	Truck	9	135 bu	0.12	16.20	16.20	
	Drying	11	135 bu	0.10	13.50	13.50	
Rental	Anhydrous App.	2	1 ac	1.50	1.50	1.50	
Subtotal						\$111.89	
Total Operating Costs excluding Interest & Unpaid Labor						\$171.95	
Interest on Oper. Capital \$171.95 @ 8.3% for 8 Months						9.51	
Unpaid Labor 1.63 Hours \$6.00 /hr						9.80	
Total Operating Costs						\$191.26	

Projected Returns

Corn 135 Bu @

Total Returns

Net Return above Operating Costs

B8

Returns Above Operating Costs Budget Worksheet
 Pinto Beans, Center Pivot Irrig., Diesel, 281' Head
 9 Acre-inches 20 cwt Beans

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre					Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl	Sub- Total			
1 Shred	7.72 Ac/hr	0.16	0.13	0.71 D	0.34	0.35	1.40		
2 Disc	12.14 Ac/hr	0.10	0.08	0.45 D	0.22	0.48	1.15		
3 Spray w/Disc	12.14 Ac/hr		0.08			0.15	0.15		
4 Disc	12.14 Ac/hr	0.10	0.08	0.45 D	0.22	0.48	1.15		
5 Plant	4.9 Ac/hr	0.24	0.20	0.74 D	0.49	1.18	2.41		
6 Hoe	17.92 Ac/hr	0.07	0.06	0.20 D	0.13	0.05	0.38		
7 Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.69 D	0.45	0.28	1.42		
8 Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.69 D	0.45	0.28	1.42		
9 All Irrig.	800 GPM	0.30	5.05	18.77 D	8.38		27.15		
10 Cut	5.73 Ac/hr	0.20	0.17	0.64 D	0.42	0.09	1.15		
11 Windrow	3.82 Ac/hr	0.31	0.26	0.95 D	0.63	1.12	2.70		
12 Combine	4 Ac/hr	0.30	0.25	1.70 D	3.86	0.79	6.35		
13 Truck	Custom								
Subtotal		2.24 Hrs		25.99	15.59	5.25	\$46.83		
Diesel	36.33 Gal @ \$0.65	\$23.61							

Materials & Services		Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Pinto Beans	5	0.5 cwt	50.00	25.00	\$25.00	
Fertilizer	10-34-0	5	9 gal	1.22	10.98	10.98	
Chemicals	Freedom	3	3.5 qt	2.99	10.47	10.47	
Custom	Truck	13	20 cwt	0.17	3.40	3.40	
Subtotal						\$49.85	
Total Operating Costs excluding Interest & Unpaid Labor						\$96.68	
Interest on Oper. Capital			\$96.68 @ 8.3% for 8 Months			5.35	
Unpaid Labor			2.24 Hours \$6.00 /hr			13.41	
Total Operating Costs						\$115.44	
Projected Returns							
Beans			20 cwt		@		
Total Returns							
Net Return above Operating Costs							

B9 Returns Above Operating Costs Budget Worksheet
 Soybeans Following Corn,Pivot Irrig.,Diesel 281'Head
 10 Acre-inches 45 Bu Beans

				Cost per Acre					
Operation # Description	Operation Rate	Hrs per Acre		Fuel & Lube	Power	Repairs Impl	Sub- Total	Your Estimate	
		Labor	Mach						
1 Shred	7.72 Ac/hr	0.16	0.13	0.71	D 0.34	0.35	1.40		
2 Spray w/Disc	12.14 Ac/hr		0.08			0.15	0.15		
3 Disc	12.14 Ac/hr	0.10	0.08	0.45	D 0.22	0.48	1.15		
4 Plant	4.9 Ac/hr	0.24	0.20	0.74	D 0.49	1.18	2.41		
5 Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.69	D 0.45	0.28	1.42		
6 All Irrig.	800 GPM	0.34	5.61	20.86	D 9.31		30.17		
7 Combine	4 Ac/hr	0.30	0.25	1.70	D 3.86	0.78	6.34		
8 Truck	Custom								
9 Auger	2500 Bu/hr	0.02	0.02	0.07	D 0.04	0.01	0.12		
Subtotal		1.38	Hrs	25.22	14.71	3.23	\$43.16		

Diesel 35.26 Gal @ \$0.65 \$22.92

Materials & Services		Operation #	Units per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Soybeans	4	1	bag	14.43	14.43	\$14.43	
Fertilizer	10-34-0	4	6	gal	1.22	7.32	7.32	
Chemicals	Pursuit +	2	2.5	pt	9.50	23.75	23.75	
Custom	Truck	8	45	bu	0.12	5.40	5.40	
Subtotal							\$50.90	
Total Operating Costs excluding Interest & Unpaid Labor							\$94.06	
Interest on Oper. Capital			\$94.06 @	8.3%	for 8 Months		5.20	
Unpaid Labor			1.38	Hours	\$6.00	/hr	8.28	
Total Operating Costs							\$107.54	

Projected Returns

Beans 45 Bu @

Total Returns

Net Return above Operating Costs

B10

Returns Above Operating Costs Budget Worksheet
 Fall Seed Alfalfa, Center Pivot Irrig., Diesel 281' Head
 4 Acre-inches

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre					Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl	Sub- Total			
1 Disc	12.14 Ac/hr	0.10	0.08	0.45 D	0.22	0.48	1.15		
2 Spread Fert.	Custom								
3 Disc	12.14 Ac/hr	0.10	0.08	0.45 D	0.22	0.48	1.15		
4 Harrow	12.33 Ac/hr	0.10	0.08	0.30 D	0.19	0.01	0.50		
5 Harrow	12.33 Ac/hr	0.10	0.08	0.30 D	0.19	0.01	0.50		
6 Roll	6.55 Ac/hr	0.18	0.15	0.56 D	0.36	0.22	1.14		
7 Plant	Custom								
8 All Irrig.	800 GPM	0.13	2.24	8.34 D	3.73		12.07		
Subtotal		0.70 Hrs		10.40	4.91	1.20	\$16.51		
Diesel	14.46 Gal @ \$0.65	\$9.40							

Materials & Services		Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Alfalfa	7	12 lb	3.44	41.28	\$41.28	
Fertilizer	0-46-0	2	60 lb.P20	0.19	11.40	11.40	
Custom	Spread Fert.	2	1 ac	3.25	3.25	3.25	
	Seeder	7	1 ac	6.00	6.00	6.00	
Subtotal						\$61.93	
Total Operating Costs excluding Interest & Unpaid Labor						\$78.44	
Interest on Oper. Capital		\$78.44 @ 8.3% for 8 Months				4.34	
Unpaid Labor		0.70 Hours \$6.00 /hr				4.19	
Total Operating Costs						\$86.97	

Returns Above Operating Costs Budget Worksheet
 Alfalfa Hay, Center Pivot Irrig., Diesel 281' Head
 18 Acre-inches 5.5 Ton Alfalfa Hay
 Cost per Acre

Operation # Description	Operation Rate	Hrs per Acre		Fuel & Repairs		Sub- Total	Your Estimate
		Labor	Mach	Lube	Power Impl		
1 Spread Fert.	Custom						
2 Windrow	3.5 Ac/hr	0.35	0.29	0.78 D	4.31	5.09	
3 Bale	5.43 Ton/hr	0.30	0.25	0.92 D	0.61 1.15	2.68	
4 Windrow	3.5 Ac/hr	0.35	0.29	0.78 D	4.31	5.09	
5 Bale	5.43 Ton/hr	0.30	0.25	0.92 D	0.61 1.15	2.68	
6 Windrow	3.5 Ac/hr	0.35	0.29	0.78 D	4.31	5.09	
7 Bale	5.43 Ton/hr	0.30	0.25	0.92 D	0.61 1.15	2.68	
8 Windrow	3.5 Ac/hr	0.35	0.29	0.78 D	4.31	5.09	
9 Bale	5.43 Ton/hr	0.30	0.25	0.92 D	0.61 1.15	2.68	
10 All Irrig.	800 GPM	0.61	10.10	37.54 D	16.76	54.30	
11 Move Bales	Custom						

Subtotal 3.20 Hrs 44.34 36.44 4.60 \$85.38

Diesel 62.03 Gal @ \$0.65 \$40.32

Materials & Services		Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Fertilizer	0-46-0	1	60 lb.P20	0.19	11.40	\$11.40	
Custom	Spread Fert.	1	1 ac	3.25	3.25	3.25	
Other	Move Bales	11	5.5 bale	1.00	5.50	5.50	
	Twine	3	2 bales	0.40	0.80	0.80	
	Twine	5	1.75 bales	0.40	0.70	0.70	
	Twine	7	1.25 bales	0.40	0.50	0.50	
	Twine	9	0.5 bales	0.40	0.20	0.20	

Subtotal \$22.35

Total Operating Costs excluding Interest & Unpaid Labor \$107.73

Interest on Oper. Capital \$107.73 @ 8.3% for 8 Months 5.96

Unpaid Labor 3.20 Hours \$6.00 /hr 19.19

Total Operating Costs \$132.88

Projected Returns

Alfalfa Hay 5.5 Ton @

Total Returns

Net Return above Operating Costs

B12

Returns Above Operating Costs Budget Worksheet
 Sub-Irrigated Alfalfa Platte Valley
 6 Ton Alfalfa Hay

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl			
1 Spread Fert.	Custom							
2 Windrow	3.5 Ac/hr	0.35	0.29	0.78 D	4.31		5.09	
3 Bale	5.93 Ton/hr	0.30	0.25	0.92 D	0.60	0.87	2.39	
4 Stack	14 Ac/hr	0.08	0.07	0.26 D	0.17	3.53	3.96	
5 Windrow	3.5 Ac/hr	0.35	0.29	0.78 D	4.31		5.09	
6 Bale	5.93 Ton/hr	0.30	0.25	0.92 D	0.60	0.87	2.39	
7 Stack	14 Ac/hr	0.08	0.07	0.26 D	0.17	3.53	3.96	
8 Windrow	3.5 Ac/hr	0.35	0.29	0.78 D	4.31		5.09	
9 Bale	5.93 Ton/hr	0.30	0.25	0.92 D	0.60	0.87	2.39	
10 Stack	14 Ac/hr	0.08	0.07	0.26 D	0.17	3.53	3.96	
11 Windrow	3.5 Ac/hr	0.35	0.29	0.78 D	4.31		5.09	
12 Bale	5.93 Ton/hr	0.30	0.25	0.92 D	0.60	0.87	2.39	
13 Stack	14 Ac/hr	0.08	0.07	0.26 D	0.17	3.53	3.96	
Subtotal		2.93 Hrs		7.84	20.32	17.60	\$45.76	
Diesel	10.94 Gal @ \$0.65	\$7.11						

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Fertilizer	0-46-0	1	60	lb.P20	0.19	11.40	\$11.40	
Custom	Spread Fert.	1	1	ac	3.25	3.25	3.25	
Other	Twine	3	2	bales	0.40	0.80	0.80	
	Twine	6	1.75	bales	0.40	0.70	0.70	
	Twine	9	1.5	bales	0.40	0.60	0.60	
	Twine	12	0.75	bales	0.40	0.30	0.30	
Subtotal							\$17.05	
Total Operating Costs excluding Interest & Unpaid Labor							\$62.81	
Interest on Oper. Capital		\$62.81 @ 8.3% for 8 Months					3.48	
Unpaid Labor		2.93 Hours \$6.00 /hr					17.57	
Total Operating Costs							\$83.86	

Projected Returns

Alfalfa Hay 6 Ton @

Total Returns

Net Return above Operating Costs

B13

Returns Above Operating Costs Budget Worksheet
 Fall Seed Grass, Center Pivot., Elect. Diesel 281' Head
 4 Acre-inches

		Hrs per Acre		Cost per Acre					
Operation # Description	Operation Rate			Fuel & Lube	Repairs		Sub- Total	Your Estimate	
		Labor	Mach		Power	Impl			
1 Disc	12.14 Ac/hr	0.10	0.08	0.45 D	0.22	0.48	1.15		
2 Spread Fert.	Custom								
3 Disc	12.14 Ac/hr	0.10	0.08	0.45 D	0.22	0.48	1.15		
4 Roll	6.55 Ac/hr	0.18	0.15	0.56 D	0.36	0.22	1.14		
5 Plant	Custom								
6 All Irrig.	800 GPM	0.13	2.24	12.41 E	2.67		15.08		
Subtotal		0.51 Hrs		13.87	3.47	1.18	\$18.52		
Diesel	2.00 Gal @ \$0.65	\$1.30							
Electricity	163.52 KWH @ \$0.075	\$12.26							

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Grass	5	16	lb	4.00	64.00	\$64.00	
Fertilizer	18-46-0	2	100	lb	0.11	11.00	11.00	
Custom	Spread Fert.	2	1	ac	3.25	3.25	3.25	
Subtotal							\$78.25	
Total Operating Costs excluding Interest & Unpaid Labor							\$96.77	
Interest on Oper. Capital			\$96.77 @ 8.3%		for 8 Months		5.35	
Unpaid Labor			0.51 Hours		\$6.00 /hr		3.04	
Total Operating Costs							\$105.16	

B14 Returns Above Operating Costs Budget Worksheet
 Pasture Center Pivot., Elect. Diesel 281' Head
 18 Acre-inches 12 AUM Pasture

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl			
1 All Irrig.	800 GPM	0.61	10.10	55.84	E12.02		67.86	
Subtotal		0.61 Hrs		55.84	12.02		\$67.86	

Electricity 737.30 KWH @ \$0.075 \$55.30

Materials & Services		Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Fertilizer	28-0-0	1	220 lb. N	0.23	50.60	\$50.60	
Other	Fencing	2	1 ac	1.00	1.00	1.00	
	Move Cattle	3	1 ac	0.25	0.25	0.25	
Subtotal						\$51.85	
Total Operating Costs excluding Interest & Unpaid Labor						\$119.71	
Interest on Oper. Capital			\$119.71 @ 8.3%	for 8 Months		6.62	
Unpaid Labor			0.61 Hours	\$6.00 /hr		3.64	
Total Operating Costs						\$129.97	

Projected Returns

Pasture

12 AUM

@

Total Returns

Net Return above Operating Costs

Returns Above Operating Costs Budget Worksheet
 Wheat Following Beans, Center Pivot, Elec. 281' Head
 6 Acre-inches 70 Bu Wheat

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre					Your Estimate
		Labor	Mach	Fuel& Lube	Repairs		Sub- Total		
					Power	Impl			
1 Field Cult	9.1 Ac/hr	0.13	0.11	0.61 D	0.29	0.19	1.09		
2 Field Cult	9.1 Ac/hr	0.13	0.11	0.61 D	0.29	0.19	1.09		
3 Apply Anhy	6.87 Ac/hr	0.18	0.15	0.80 D	0.38		1.18		
4 Weed	11.63 Ac/hr	0.11	0.09	0.47 D	0.23	0.13	0.83		
5 Drill	8.44 Ac/hr	0.14	0.12	0.43 D	0.28	1.82	2.53		
6 All Irrig.	800 GPM	0.20	3.37	18.61 E	4.01		22.62		
7 Spray	Custom								
8 Combine	4.12 Ac/hr	0.29	0.24	1.65 D	3.75	0.78	6.18		
9 Truck	Custom								
10 Auger	2500 Bu/hr	0.04	0.03	0.10 D	0.07	0.02	0.19		
Subtotal		1.22 Hrs		23.28	9.30	3.13	\$35.71		
Diesel	6.59 Gal @ \$0.65	\$4.28							
Electricity	246.01 KWH @ \$0.075	\$18.45							

Materials & Services		Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Wheat	5	75 lb	0.17	12.75	\$12.75	
Fertilizer	Anhy N	3	80 lb. N	0.12	9.60	9.60	
	10-34-0	5	8 gal	1.22	9.76	9.76	
Chemicals	Fungicide Tilt	7	4 oz	2.73	10.92	10.92	
Custom	Aerial Spray	7	1 ac	4.00	4.00	4.00	
	Truck	9	70 bu	0.12	8.40	8.40	
Rental	Anhy Applic	3	1 ac	1.50	1.50	1.50	
Subtotal						\$56.93	
Total Operating Costs excluding Interest & Unpaid Labor						\$92.64	
Interest on Oper. Capital			\$92.64 @ 8.3%	for 8 Months		5.13	
Unpaid Labor			1.22 Hours	\$6.00 /hr		7.33	
Total Operating Costs						\$105.10	
Projected Returns							
Wheat			70 Bu	@			
Total Returns							
Net Return above Operating Costs							

B16

Returns Above Operating Costs Budget Worksheet
Wheat Stubble Mulch Fallow Via Tillage
42 Bu Wheat

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre					Your Estimate
		Labor	Mach	Fuel & Lube	Repairs		Sub- Total		
					Power	Impl			
1 Chisel	9.76 Ac/hr	0.12	0.10	0.56	D	0.27	0.29	1.12	
2 Field Cult	9.1 Ac/hr	0.13	0.11	0.61	D	0.29	0.19	1.09	
3 Field Cult	9.1 Ac/hr	0.13	0.11	0.61	D	0.29	0.19	1.09	
4 Field Cult	9.1 Ac/hr	0.13	0.11	0.61	D	0.29	0.19	1.09	
5 Apply Anhy	6.87 Ac/hr	0.18	0.15	0.80	D	0.38		1.18	
6 Weed	11.63 Ac/hr	0.11	0.09	0.47	D	0.23	0.13	0.83	
7 Weed	11.63 Ac/hr	0.11	0.09	0.47	D	0.23	0.13	0.83	
8 Drill	8.44 Ac/hr	0.14	0.12	0.43	D	0.28	1.82	2.53	
9 Spray	Custom								
10 Combine	4.12 Ac/hr	0.29	0.24	1.65	D	3.75	0.78	6.18	
11 Truck	Custom								
12 Auger	2500 Bu/hr	0.02	0.02	0.06	D	0.04	0.01	0.11	
Subtotal		1.37	Hrs	6.27		6.05	3.73	\$16.05	

Diesel 8.85 Gal @ \$0.65 \$5.75

Materials & Services		Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Wheat	8	60 lb	0.17	10.20	\$10.20	
Fertilizer	Anhy N	5	50 lb. N	0.12	6.00	6.00	
	10-34-0	8	8 gal	1.22	9.76	9.76	
Chemicals	2,4-D Amine	9	0.5 pt	1.34	0.67	0.67	
	Ally	9	0.1 oz	28.46	2.85	2.85	
Custom	Spray	9	1 ac	3.50	3.50	3.50	
	Truck	11	42 bu	0.12	5.04	5.04	
Rental	Anhy Applic	5	1 ac	1.50	1.50	1.50	
Subtotal						\$39.52	
Total Operating Costs excluding Interest & Unpaid Labor						\$55.57	
Interest on Oper. Capital			\$55.57 @ 8.3% for 8 Months			3.07	
Unpaid Labor			1.37 Hours \$6.00 /hr			8.21	
Total Operating Costs						\$66.85	

Projected Returns

Wheat

42 Bu

@

Total Returns

Net Return above Operating Costs

B17

Returns Above Operating Costs Budget Worksheet
 Wheat, Clean-Till Fallow
 37 Bu Wheat

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Power	Repairs Impl			
1 Disc	12.14 Ac/hr	0.10	0.08	0.45 D	0.22	0.48		1.15	
2 Field Cult	9.1 Ac/hr	0.13	0.11	0.61 D	0.29	0.19		1.09	
3 Field Cult	9.1 Ac/hr	0.13	0.11	0.61 D	0.29	0.19		1.09	
4 Field Cult	9.1 Ac/hr	0.13	0.11	0.61 D	0.29	0.19		1.09	
5 Apply Anhy	6.87 Ac/hr	0.18	0.15	0.80 D	0.38			1.18	
6 Weed	11.63 Ac/hr	0.11	0.09	0.47 D	0.23	0.13		0.83	
7 Weed	11.63 Ac/hr	0.11	0.09	0.47 D	0.23	0.13		0.83	
8 Drill	8.44 Ac/hr	0.14	0.12	0.43 D	0.28	1.82		2.53	
9 Spray	Custom								
10 Combine	4.12 Ac/hr	0.29	0.24	1.65 D	3.75	0.78		6.18	
11 Truck	Custom								
12 Auger	2500 Bu/hr	0.01	0.01	0.05 D	0.04	0.01		0.10	
Subtotal		1.33 Hrs		6.15	6.00	3.92		\$16.07	

Diesel 8.64 Gal @ \$0.65 \$5.62

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Wheat	8	60	lb	0.17	10.20	\$10.20	
Fertilizer	Anhy N	5	40	lb. N	0.12	4.80	4.80	
	10-34-0	8	8	gal	1.22	9.76	9.76	
Chemicals	2,4-D Amine	9	0.5	pt	1.34	0.67	0.67	
	Ally	9	0.1	oz	28.46	2.85	2.85	
Custom	Spray	9	1	ac	3.50	3.50	3.50	
	Truck	11	37	bu	0.12	4.44	4.44	
Rental	Anhy Applic	5	1	ac	1.50	1.50	1.50	
Subtotal							\$37.72	
Total Operating Costs excluding Interest & Unpaid Labor							\$53.79	
Interest on Oper. Capital			\$53.79 @ 8.3%	for 8 Months			2.98	
Unpaid Labor			1.33 Hours	\$6.00 /hr			7.99	
Total Operating Costs							\$64.76	

Projected Returns

Wheat 37 Bu @

Total Returns

Net Return above Operating Costs

B18

Returns Above Operating Costs Budget Worksheet
Continuous Wheat With Chemical Weed Control
30 Bu Wheat

Operation # Description		Operation Rate	Hrs per Acre		Cost per Acre				Your Estimate
			Labor	Mach	Fuel& Lube	Repairs		Sub- Total	
						Power	Impl		
1	Spray	9.45 Ac/hr	0.13	0.11	0.39 D	0.25	0.07	0.71	
2	Spray	9.45 Ac/hr	0.13	0.11	0.39 D	0.25	0.07	0.71	
3	Drill	8.44 Ac/hr	0.14	0.12	0.43 D	0.28	1.82	2.53	
4	Spray	9.45 Ac/hr	0.13	0.11	0.39 D	0.25	0.07	0.71	
5	Combine	4.12 Ac/hr	0.29	0.24	1.65 D	3.75	0.78	6.18	
6	Truck	Custom							
7	Auger	2500 Bu/hr	0.01	0.01	0.04 D	0.03	0.01	0.08	
Subtotal			0.84 Hrs		3.29	4.81	2.82	\$10.92	

Diesel 4.63 Gal @ \$0.65 \$3.01

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Wheat	3	60	lb	0.17	10.20	\$10.20	
Fertilizer	10-34-0	3	8	gal	1.22	9.76	9.76	
	28-0-0	4	45	lb. N	0.23	10.35	10.35	
Chemicals	Landmaster	1	54	oz	0.15	8.10	8.10	
	Roundup	2	1	pt	5.77	5.77	5.77	
	2,4-D Amine	4	0.5	pt	1.34	0.67	0.67	
	Ally	4	0.1	oz	28.46	2.85	2.85	
Custom	Truck	6	30	bu	0.12	3.60	3.60	
Subtotal							\$51.30	
Total Operating Costs excluding Interest & Unpaid Labor							\$62.22	
Interest on Oper. Capital			\$62.22 @ 8.3%	for 8 Months			3.44	
Unpaid Labor			0.84 Hours	\$6.00 /hr			5.04	
Total Operating Costs							\$70.70	

Projected Returns

Wheat

30 Bu

@

Total Returns

Net Return above Operating Costs

B19

Returns Above Operating Costs Budget Worksheet
Eco-Fallow Wheat Before Corn in Three-Year System
45 Bu Wheat

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Chisel	9.76 Ac/hr	0.12	0.10	0.56 D	0.27	0.29		1.12	
2 Noble	13.33 Ac/hr	0.10	0.08	0.41 D	0.20	0.2		0.81	
3 Apply Anhy	6.87 Ac/hr	0.18	0.15	0.80 D	0.38			1.18	
4 Noble	13.33 Ac/hr	0.10	0.08	0.41 D	0.20	0.2		0.81	
5 Weed	11.63 Ac/hr	0.11	0.09	0.47 D	0.23	0.13		0.83	
6 Weed	11.63 Ac/hr	0.11	0.09	0.47 D	0.23	0.13		0.83	
7 Drill	8.44 Ac/hr	0.14	0.12	0.43 D	0.28	1.82		2.53	
8 Spray	Custom								
9 Combine	4.12 Ac/hr	0.29	0.24	1.65 D	3.75	0.78		6.18	
10 Truck	Custom								
11 Auger	2500 Bu/hr	0.02	0.02	0.07 D	0.04	0.01		0.12	
Subtotal		1.16 Hrs		5.27	5.58	3.56		\$14.41	

Diesel 7.54 Gal @ \$0.65 \$4.90

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Wheat	7	60	lb	0.17	10.20	\$10.20	_____
Fertilizer	10-34-0	3	8	gal	1.22	9.76	9.76	_____
	Anhy N	3	50	lb. N	0.12	6.00	6.00	_____
Chemicals	2,4-D Ester	8	0.5	pt	1.69	0.85	0.84	_____
	Ally	8	0.1	oz	28.46	2.85	2.85	_____
Custom	Sprayer	8	1	ac	3.50	3.50	3.50	_____
	Truck	10	45	bu	0.12	5.40	5.40	_____
Rental	Anhy Applic	3	1	ac	1.50	1.50	1.50	_____
Subtotal							\$40.05	_____
Total Operating Costs excluding Interest & Unpaid Labor							\$54.46	_____
Interest on Oper. Capital			\$54.46 @	8.3%	for 8 Months		3.01	_____
Unpaid Labor			1.16	Hours	\$6.00 /hr		6.98	_____
Total Operating Costs							\$64.45	_____

Projected Returns

Wheat 45 Bu @

Total Returns

Net Return above Operating Costs

B20

Returns Above Operating Costs Budget Worksheet
Corn Following Eco-Fallow Wheat In Three-Year System
65 Bu Corn

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre					Your Estimate
		Labor	Mach	Fuel & Lube	Repairs		Sub- Total		
					Power	Impl			
1 Spray	9.45 Ac/hr	0.13	0.11	0.39 D	0.25	0.07	0.71		
2 Spray	9.45 Ac/hr	0.13	0.11	0.39 D	0.25	0.07	0.71		
3 Spray	9.45 Ac/hr	0.13	0.11	0.39 D	0.25	0.07	0.71		
4 Plant	4.9 Ac/hr	0.24	0.20	0.74 D	0.49	1.18	2.41		
5 Combine	4.04 Ac/hr	0.30	0.25	1.68 D	3.82	1.5	7.00		
6 Truck	Custom								
7 Auger	2500 Bu/hr	0.04	0.03	0.09 D	0.06	0.02	0.17		
Subtotal		0.97 Hrs		3.68	5.12	2.91	\$11.71		
Diesel	5.23 Gal @ \$0.65	\$3.40							

Materials & Services		Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	4	0.18 bag	79.23	14.26	\$14.26	
Fertilizer	28-0-0	3	75 lb. N	0.23	17.25	17.25	
	10-34-0	4	6 gal	1.22	7.32	7.32	
Chemicals	Landmaster	1	54 oz	0.15	8.10	8.10	
	Atrazine 4L	2	2 pt	1.33	2.66	2.66	
	Cyclone	2	1.5 pt	3.27	4.91	4.90	
	Atrazine 4L	3	2 pt	1.33	2.66	2.66	
	Banvel	3	0.5 pt	9.31	4.66	4.66	
	Bladex 90 DF	3	1.5 lb	5.31	7.97	7.97	
Custom	Truck	6	65 bu	0.12	7.80	7.80	
Subtotal						\$77.58	
Total Operating Costs excluding Interest & Unpaid Labor						\$89.29	
Interest on Oper. Capital \$89.29 @ 8.3% for 8 Months						4.94	
Unpaid Labor 0.97 Hours \$6.00 /hr						5.83	
Total Operating Costs						\$100.06	

Projected Returns

Corn 65 Bu @
Crop Residue 1 AUM @

Total Returns

Net Return above Operating Costs

B21

Returns Above Operating Costs Budget Worksheet
Continuous Grain Sorghum
40 Bu Grain

		Hrs per Acre		Cost per Acre					
Operation #	Description	Operation Rate	Labor	Mach	Fuel & Lube	Repairs Power	Impl	Sub-Total	Your Estimate
1	Disc	12.14 Ac/hr	0.10	0.08	0.45 D	0.22	0.48	1.15	
2	Disc	12.14 Ac/hr	0.10	0.08	0.45 D	0.22	0.48	1.15	
3	Apply Anhy	6.87 Ac/hr	0.18	0.15	0.80 D	0.38		1.18	
4	Field Cult	9.1 Ac/hr	0.13	0.11	0.61 D	0.29	0.19	1.09	
5	Plant	4.9 Ac/hr	0.24	0.20	0.74 D	0.49	1.18	2.41	
6	Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.69 D	0.45	0.28	1.42	
7	Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.69 D	0.45	0.28	1.42	
8	Spray	Custom							
9	Combine	4.12 Ac/hr	0.29	0.24	1.65 D	3.75	0.78	6.18	
10	Truck	Custom							
11	Auger	2500 Bu/hr	0.02	0.02	0.06 D	0.04	0.01	0.11	
Subtotal			1.51 Hrs		6.14	6.29	3.68	\$16.11	

Diesel 8.57 Gal @ \$0.65 \$5.57

Materials & Services		Operation #	Units per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Sorghum	5	5	lb	0.87	4.35	\$4.35	
Fertilizer	Anhy N	3	50	lb. N	0.12	6.00	6.00	
	10-34-0	5	5	gal	1.22	6.10	6.10	
Chemicals	Bicep	5	0.84	qt	8.13	6.83	6.83	
	Parathion 4E	8	0.5	lb	9.75	4.88	4.88	
Custom	Aerial Spray	8	1	ac	4.00	4.00	4.00	
	Truck	10	40	bu	0.12	4.80	4.80	
Rental	Anhy Applic	3	1	ac	1.50	1.50	1.50	
Subtotal							\$38.45	
Total Operating Costs excluding Interest & Unpaid Labor							\$54.56	
Interest on Oper. Capital			\$54.56 @ 8.3%		for 8 Months		3.02	
Unpaid Labor			1.51 Hours		\$6.00 /hr		9.07	
Total Operating Costs							\$66.65	

Projected Returns

Grain	40 Bu	@	
Crop Residue	1 AUM	@	
Total Returns			
Net Return above Operating Costs			

B22

Returns Above Operating Costs Budget Worksheet
 Cont. Grain Sorghum No Till,ff Eco Corn or Sorg
 70 Bu Grain

		Hrs per Acre		Cost per Acre					
Operation # Description	Operation Rate			Fuel&	Repairs		Sub- Total	Your Estimate	
		Labor	Mach	Lube	Power	Impl			
1 Spray	9.45 Ac/hr	0.13	0.11	0.39 D	0.25	0.07	0.71		
2 Spray	9.45 Ac/hr	0.13	0.11	0.39 D	0.25	0.07	0.71		
3 Plant	4.9 Ac/hr	0.24	0.20	0.74 D	0.49	1.18	2.41		
4 Spray	Custom								
5 Combine	4.12 Ac/hr	0.29	0.24	1.65 D	3.75	0.78	6.18		
6 Truck	Custom								
7 Auger	2500 Bu/hr	0.04	0.03	0.10 D	0.07	0.02	0.19		
Subtotal		0.83 Hrs		3.27	4.81	2.12	\$10.20		

Diesel 4.57 Gal @ \$0.65 \$2.97

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Sorghum	3	4	lb	1.07	4.28	\$4.28	
Fertilizer	28-0-0	2	80	lb. N	0.23	18.40	18.40	
	10-34-0	3	6	gal	1.22	7.32	7.32	
Chemicals	Bladex 4L	1	2	qt	5.98	11.96	11.96	
	Atrazine 4L	2	2	pt	1.33	2.66	2.66	
	Banvel	2	0.5	pt	9.31	4.66	4.66	
	Dual	2	1.75	pt	7.95	13.91	13.91	
	Parathion 4E	4	0.5	lb	9.75	4.88	4.88	
Custom	Aerial Spray	4	1	ac	4.00	4.00	4.00	
	Truck	6	70	bu	0.12	8.40	8.40	
Subtotal							\$80.46	
Total Operating Costs excluding Interest & Unpaid Labor							\$90.66	
Interest on Oper. Capital			\$90.66 @ 8.3% for 8 Months			5.02		
Unpaid Labor			0.83 Hours \$6.00 /hr			4.97		
Total Operating Costs							\$100.65	

Projected Returns

Grain 70 Bu @

Crop Residue 1 AUM @

Total Returns

Net Return above Operating Costs

B23

Returns Above Operating Costs Budget Worksheet
Cane Hay

3 Ton Hay

Cost per Acre

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl			
1 Disc	12.14 Ac/hr	0.10	0.08	0.45 D	0.22	0.48	1.15	
2 Disc	12.14 Ac/hr	0.10	0.08	0.45 D	0.22	0.48	1.15	
3 Field Cult	9.1 Ac/hr	0.13	0.11	0.61 D	0.29	0.19	1.09	
4 Apply Anhy	Rent							
5 Drill	8.44 Ac/hr	0.14	0.12	0.43 D	0.28	1.82	2.53	
6 Windrow	Custom							
7 Bale	3.96 Ton/hr	0.91	0.76	2.76 D	1.81	2.56	7.13	
8 Move Bales	Custom							
Subtotal		1.38 Hrs		4.70	2.82	5.53	\$13.05	
Diesel	6.57 Gal @ \$0.65			\$4.27				

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Cane Hay	5	20	1b	0.47	9.40	\$9.40	
Fertilizer	Anhy N	4	40	lb. N	0.12	4.80	4.80	
Custom	Windrow	6	1	ac	7.50	7.50	7.50	
	Move Bales	8	6	bale	1.00	6.00	6.00	
Rental	Anhy Applic	4	1	ac	1.50	1.50	1.50	
Other	Twine	7	6	bales	0.40	2.40	2.40	
Subtotal							\$31.60	
Total Operating Costs excluding Interest & Unpaid Labor							\$44.65	
Interest on Oper. Capital			\$44.65 @ 8.3%		for 8 Months		2.47	
Unpaid Labor			1.38 Hours		\$6.00 /hr		8.28	
Total Operating Costs							\$55.40	

Projected Returns

Hay

3 Ton

@

Total Returns

Net Return above Operating Costs

DESCRIPTION OF THE CROP BUDGETS FOR NORTHERN NEBRASKA

Cultivated crops are generally not grown in the Sandhills area without irrigation. Irrigation is primarily by center-pivot irrigation. Native hay is produced on either sub-irrigated meadows or upland sites. Some non-irrigated crops are grown on the edges of the Sandhills. Budgets for adjacent areas may be used for those interested in the non-irrigated crops.

Items of machinery used are listed below along with use levels and cost assumptions. Tooling and cost assumptions for each operation are also listed. A summary table providing total cost estimates precedes the operating cost worksheets.

1994 Machinery List -- Northern Nebraska						
Mcode	Machine	Price	Annual Use	Years to Trade	Trade in	Repairs
Power Units						
2	Diesel Pivot 206' head	71,900	900 hr	17	0	1.49/hr
15	Tractor 100 hp diesel cab	47,800	500 hr	10	14,120	2.39/hr
16	Tractor 120 hp diesel cab	61,289	200 hr	10	18,103	1.23/hr
84	Combine 185 hp	90,000	200 hr	10	16,977	15.44/hr
94	Swather/Conditioner 14' self prop	45,463	150 hr	10	8,575	15.08/hr
Implements						
31	Tandem Disc 28'	21,979	1,100 ac	15	2,111	.48/ac
66	Planter 6 row x 30"	15,640	500 ac	7	3,990	1.18/ac
67	Planter 6 row x 36"	14,437	400 ac	10	2,553	.86/ac
78	Sprayer 2-200 gallon 28' saddle tanks	3,200	1,787 ac	12	413	.10/ac
87	6 row corn head	33,562	760 ac	10	6,331	1.50/ac
96	Mower 2x9' tandem 18'	15,000	1,450 ac	12	2,216	1.28/ac
97	Side Delivery Rake 19'	7,400	1,383 ac	12	1,093	.38/ac
99	Forage Harvester 3 row	27,642	150 ac	10	4,562	1.58/ac
101	Large Round Baler	19,182	400 ton	10	3,166	.49/tnn
111	Grain Auger 8" X 66' PTO	3,216	150 bu000	20	178	.21/bu000

1994 Operations List* Northern Nebraska

NO Operation	Power Code	Imp Code	Energy/hr	% Lube
All Irrig.	2		4.00 Gal Diesel	10%
Apply Anhy	16	Rent	6.10 Gal Diesel	10%
Auger	15	111	5.10 Gal Diesel	10%
Bale	15	101	5.10 Gal Diesel	10%
Chop	16	99	6.10 Gal Diesel	10%
Combine	84	87	9.50 Gal Diesel	10%
Disc	16	31	6.10 Gal Diesel	10%
Drill	15	Rent	5.10 Gal Diesel	10%
Dry	Custom			
Move Bales	Custom			
Mow	15	96	5.10 Gal Diesel	10%
Pack	16		6.10 Gal Diesel	10%
Plant	15	66	5.10 Gal Diesel	10%
Rake	15	97	5.10 Gal Diesel	10%
Spray w/Disc		78		
Spread Fert.	Custom			
Truck	Custom			
Windrow	94		3.80 Gal Diesel	10%

*See previous page for power unit that corresponds to power code and implement code. The % lube is lube charge as a percentage of the fuel cost.

Budgeted Production Costs Summary, Northern Nebraska 1994

Budget	B25	B26	B27	B28	B29	B30	B31	B32
Crop	Corn	Corn	Alfalfa	Alfalfa	Grass	Grass	Native	Native
Description	Grain	Silage	Hay	Hay	Hay	Pasture	Hay	Hay
	Pivot	Pivot	Pivot	Pivot	Pivot	Pivot	Subirr	Upland
	Cont.	Cont.	Estab		Estab			
					Fall			
Yield	130.0 Bu	18.0 Ton		5.0 Ton		10.0 AUM	1.3 Ton	0.7 Ton
Mgt Fee/unit	\$0.10	\$0.70		\$2.50		\$2.00	\$1.00	\$2.00
Land Invest.	\$690	\$690	\$690	\$690	\$690	\$690	\$300	\$135
Unimp.	397	397	397	397	397	397	300	135
Irrig	293	293	293	293	293	293		
Mach Invest	\$212.62	\$196.13	\$37.62	\$290.51	\$37.62		\$86.59	\$55.25
Op Cost/ac	\$187.84	\$227.25	\$86.39	\$101.46	\$128.17	\$93.80	\$12.02	\$8.38
Overhead	\$9.39	\$11.36	\$4.32	\$5.07	\$6.41	\$4.69	\$0.60	\$0.42
Unpaid Mgt	\$13.00	\$12.60		\$12.50		\$20.00	\$1.30	\$1.40
RE Taxes	\$6.00	\$6.00		\$6.00		\$6.00	\$5.00	\$2.00
Land Interest	23.03	23.03		23.03		23.03	17.40	7.83
Irrig Interest	20.22	20.22		20.22		20.22		
Irrig Deprec	32.00	32.00		32.00		32.00		
Land Subtotal	\$81.24	\$81.24		\$81.24		\$81.24	\$22.40	\$9.83
Mach. Interest	\$14.67	\$13.53	\$2.60	\$20.05	\$2.60		\$5.97	\$3.81
Mach. Deprec	26.87	22.57	4.10	39.35	4.10		11.65	6.82
Mach. Subtotal	\$41.54	\$36.10	\$6.70	\$59.40	\$6.70		\$17.62	\$10.63
Total Owner Cost	\$122.78	\$117.35	\$6.70	\$140.64	\$6.70	\$81.24	\$40.02	\$20.46
Estab Costs				\$19.48		\$28.25		
Total Cost/ac	\$333.02	\$368.56	\$97.41	\$279.15	\$141.27	\$227.99	\$53.95	\$30.66
Total Cost/unit	\$2.56	\$20.48		\$55.83		\$22.80	\$41.50	\$43.80

Returns Above Operating Costs Budget Worksheet
 Cont. Corn Grain Center Pivot Irrig., Diesel, 206' Head
 B25 15 Acre-inches 130 Bu Corn

		Cost per Acre							
Operation #	Description	Operation Rate	Hrs per Acre					Sub-Total	Your Estimate
			Labor	Mach	Fuel& Lube	Repairs Power	Impl		
1	Apply Anhy	6.87 Ac/hr	0.18	0.15	0.63	D 0.18		0.81	
2	Disc	12.14 Ac/hr	0.10	0.08	0.36	D 0.10	0.48	0.94	
3	Spray w/Disc	12.14 Ac/hr		0.08			0.1	0.10	
4	Disc	12.14 Ac/hr	0.10	0.08	0.36	D 0.10	0.48	0.94	
5	Plant	4.9 Ac/hr	0.24	0.20	0.74	D 0.49	1.18	2.41	
6	All Irrig.	800 GPM	0.51	8.42	24.07	D12.54		36.61	
7	Combine	4.12 Ac/hr	0.29	0.24	1.65	D 3.75	1.5	6.90	
8	Truck	Custom							
9	Auger	2500 Bu/hr	0.06	0.05	0.19	D 0.12	0.03	0.34	
10	Dry	Custom							
Subtotal			1.47	Hrs	28.00	17.28	3.77	\$49.05	

Diesel 39.13 Gal @ \$0.65 \$25.43

Materials & Services		Operation #	Units per Acre	Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Corn	5	0.33 bag	79.23	26.15	\$26.15	
Fertilizer	Anhy N	1	120 lb. N	0.12	14.40	14.40	
	10-34-0	5	6 gal	1.22	7.32	7.32	
	28-0-0	5	30 lb. N	0.23	6.90	6.90	
	Zinc sulfate	5	4 gal	2.54	10.16	10.16	
Chemicals	Bullet	3	3 qt	4.93	14.79	14.79	
	Lorsban 15G	3	6.5 lb	1.66	10.79	10.79	
Custom	Truck	8	130 bu	0.12	15.60	15.60	
	Dryer	10	130 bu	0.10	13.00	13.00	
Rental	Anhy Applic	1	1 ac	1.50	1.50	1.50	
Subtotal						\$120.61	
Total Operating Costs excluding Interest & Unpaid Labor						\$169.66	
Interest on Oper. Capital \$169.66 @ 8.3% for 8 Months						9.39	
Unpaid Labor 1.47 Hours \$6.00 /hr						8.79	
Total Operating Costs						\$187.84	

Projected Returns

Corn	130 Bu	@	
Crop Residue	2 AUM	@	
Total Returns			
Net Return above Operating Costs			

B26

Returns Above Operating Costs Budget Worksheet
 Cont. Corn Silage Center Pivot Irrig., Diesel, 206' Head
 15 Acre-inches 18 Ton Silage

Cost per Acre

Operation #	Description	Operation Rate	Hrs per Acre		Fuel & Lube	Repairs		Sub-Total	Your Estimate
			Labor	Mach		Power	Impl		
1	Apply Anhy	6.87 Ac/hr	0.18	0.15	0.63 D	0.18		0.81	
2	Disc	12.15 Ac/hr	0.10	0.08	0.36 D	0.10	0.48	0.94	
3	Spray w/Disc	12.15 Ac/hr		0.08			0.1	0.10	
4	Disc	12.15 Ac/hr	0.10	0.08	0.36 D	0.10	0.48	0.94	
5	Plant	4.9 Ac/hr	0.24	0.20	0.74 D	0.49	1.18	2.41	
6	All Irrig.	800 GPM	0.51	8.42	24.07 D	12.54		36.61	
7	Chop	Custom							
8	Truck	Custom							
9	Pack	2.5 Ac/hr	0.48	0.40	1.74 D	0.49		2.23	
Subtotal			1.60 Hrs		27.90	13.90	2.24	\$44.04	

Diesel

39.03 Gal @ \$0.65 \$25.37

Materials & Services		Operation #	Units per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Corn	5	0.33	bag	79.23	26.15	\$26.15	
Fertilizer	Anhy N	1	120	lb. N	0.12	14.40	14.40	
	10-34-0	5	6	gal	1.22	7.32	7.32	
	28-0-0	5	30	lb. N	0.23	6.90	6.90	
	Zinc sulfate	5	4	gal	2.54	10.16	10.16	
Chemicals	Bullet	3	3	qt	4.93	14.79	14.79	
Custom	Forage Chopper	7	18	ton	2.50	45.00	45.00	
	Truck	8	18	ton	2.00	36.00	36.00	
Rental	Anhy Applic	1	1	ac	1.50	1.50	1.50	
Subtotal							\$162.22	
Total Operating Costs excluding Interest & Unpaid Labor							\$206.26	
Interest on Oper. Capital \$206.26 @ 8.3% for 8 Months							11.41	
Unpaid Labor 1.60 Hours \$6.00 /hr							9.58	
Total Operating Costs							\$227.25	

Projected Returns

Silage

18 Ton

@

Total Returns

Net Return above Operating Costs

B27

Returns Above Operating Costs Budget Worksheet
 Estab Alfalfa In Stubble, Pivot Irrig, Diesel, 206' Head
 4 Acre-inches

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Spread Fert.	Custom								
2 Disc	12.14 Ac/hr	0.10	0.08	0.36 D	0.10	0.48		0.94	
3 Drill	6 Ac/hr	0.20	0.17	0.61 D	0.40			1.01	
4 All Irrig.	800 GPM	0.13	2.24	6.42 D	3.34			9.76	
Subtotal		0.43 Hrs		7.39	3.84	0.48		\$11.71	

Diesel 10.32 Gal @ \$0.65 \$6.70

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Alfalfa	3	12	lb	3.44	41.28	\$41.28	
Fertilizer	0-46-0	1	60	lb.P20	0.19	11.40	11.40	
	Ammon Sulfate	1	80	lb	0.10	8.00	8.00	
Custom	Spread Fert.	1	1	ac	3.25	3.25	3.25	
Rental	Grain Drill	3	1	ac	3.75	3.75	3.75	
Subtotal							\$67.68	
Total Operating Costs excluding Interest & Unpaid Labor							\$79.39	
Interest on Oper. Capital			\$79.39 @ 8.3%		for 8 Months		4.39	
Unpaid Labor			0.43 Hours	\$6.00 /hr			2.61	
Total Operating Costs							\$86.39	

B28

Returns Above Operating Costs Budget Worksheet
 Alfalfa Hay, Center Pivot Irrig., Diesel, 206' Head
 18 Acre-inches 5 Ton Hay

Operation #	Description	Operation Rate	Hrs per Acre		Cost per Acre				Your Estimate
			Labor	Mach	Fuel & Lube	Repairs Power	Impl	Sub-Total	
1	Spread Fert.	Custom							
2	Windrow	5.07 Ac/hr	0.24	0.20	0.54 D	2.97		3.51	
3	Bale	7 Ton/hr	0.29	0.24	0.86 D	0.56	0.82	2.24	
4	Windrow	5.07 Ac/hr	0.24	0.20	0.54 D	2.97		3.51	
5	Bale	7 Ton/hr	0.29	0.24	0.86 D	0.56	0.82	2.24	
6	Windrow	5.07 Ac/hr	0.24	0.20	0.54 D	2.97		3.51	
7	Bale	7 Ton/hr	0.29	0.24	0.89 D	0.58	0.82	2.29	
8	All Irrig.	800 GPM	0.61	10.10	28.88 D	15.05		43.93	
9	Move Bales	Custom							
Subtotal			2.19 Hrs		33.11	25.66	2.46	\$61.23	

Diesel 46.35 Gal @ \$0.65 \$30.13

Materials & Services		Operation #	Units per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Fertilizer	18-46-0	1	40	lb	0.11	4.40	\$4.40	
	Potass Mag	1	9	lb	0.09	0.81	0.81	
Custom	Spread Fert.	1	1	ac	3.25	3.25	3.25	
	Move Bales	9	10	bale	1.00	10.00	10.00	
Other	Twine	3	4	bales	0.40	1.60	1.60	
	Twine	5	3	bales	0.40	1.20	1.20	
	Twine	7	3	bales	0.40	1.20	1.20	
Subtotal							\$22.46	
Total Operating Costs excluding Interest & Unpaid Labor							\$83.69	
Interest on Oper. Capital			\$83.69 @ 8.3% for 8 Months			4.63		
Unpaid Labor			2.19 Hours \$6.00 /hr			13.14		
Total Operating Costs							\$101.46	

Projected Returns

Hay 5 Ton @
 Crop Residue 1 AUM @

Total Returns

Net Return above Operating Costs

B29

Returns Above Operating Costs Budget Worksheet
 Establish Grass, Fall, Pivot Irrig., Diesel, 206' Head
 4 Acre-inches

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Spread Fert.	Custom								
2 Disc	12.14 Ac/hr	0.10	0.08	0.36 D	0.10	0.48		0.94	
3 Drill	6 Ac/hr	0.20	0.17	0.61 D	0.40			1.01	
4 All Irrig.	800 GPM	0.13	2.24	6.42 D	3.34			9.76	
Subtotal		0.43 Hrs		7.39	3.84	0.48		\$11.71	

Diesel 10.32 Gal @ \$0.65 \$6.70

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Grass	3	17	lb	4.00	68.00	\$68.00	
Fertilizer	0-46-0	1	50	lb.P20	0.19	9.50	9.50	
	10-34-0	1	18	gal	1.22	21.96	21.96	
	Potass Mag	1	9	lb	0.09	0.81	0.81	
Custom	Spread Fert.	1	1	ac	3.25	3.25	3.25	
Rental	Grain Drill	3	1	ac	3.75	3.75	3.75	
Subtotal							\$107.27	
Total Operating Costs excluding Interest & Unpaid Labor							\$118.98	
Interest on Oper. Capital			\$118.98 @	8.3%	for 8 Months		6.58	
Unpaid Labor			0.43	Hours	\$6.00 /hr		2.61	
Total Operating Costs							\$128.17	

B30

Returns Above Operating Costs Budget Worksheet
 Pasture, Center Pivot Irrig., Diesel, 206' Head
 18 Acre-inches 10 AUM Pasture

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl			
1 All Irrig.	800 GPM	0.61	10.10	28.88	D15.05		43.93	
Subtotal		0.61 Hrs		28.88	15.05		\$43.93	
Diesel	40.40 Gal @ \$0.65	\$26.26						
Materials & Services	Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre		Sub- Total	Your Estimate
Fertilizer 28-0-0	1	175 lb.	N	0.23	40.25		\$40.25	
Other Fencing	2	1 ac		1.00	1.00		1.00	
Rotate Cattle	3	1 ac		0.25	0.25		0.25	
Subtotal							\$41.50	
Total Operating Costs excluding Interest & Unpaid Labor							\$85.43	
Interest on Oper. Capital		\$85.43 @ 8.3%	for 8 Months				4.73	
Unpaid Labor		0.61 Hours	\$6.00 /hr				3.64	
Total Operating Costs							\$93.80	
Projected Returns								
Pasture		10 AUM			@			
Total Returns								
Net Return above Operating Costs								

B31

Returns Above Operating Costs Budget Worksheet
Native Subirrigated Meadow Hay
1.3 Ton Hay

		Hrs per Acre		Cost per Acre				
Operation # Description	Operation Rate			Fuel&	Repairs	Sub-	Your Estimate	
		Labor	Mach	Lube	Power Impl	Total		
1 Windrow	5.07 Ac/hr	0.24	0.20	0.54 D	2.97	3.51		
2 Bale	5.46 Ton/hr	0.29	0.24	0.87 D	0.57 0.64	2.08		
3 Move Bales	Custom							
Subtotal		0.53 Hrs		1.41	3.54 0.64	\$5.59		
Diesel		1.98 Gal @ \$0.65	\$1.29					
Materials & Services		Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate	
Custom	Move Bale	3	2 bale	1.00	2.00	\$2.00		
Other	Twine	2	2 bales	0.40	0.80	0.80		
Subtotal						\$2.80		
Total Operating Costs excluding Interest & Unpaid Labor						\$8.39		
Interest on Oper. Capital			\$8.39 @ 8.3%	for 8 Months		0.46		
Unpaid Labor			0.53 Hours	\$6.00 /hr		3.17		
Total Operating Costs						\$12.02		
Projected Returns								
Hay			1.3 Ton		@			
Crop Residue			1 AUM		@			
Total Returns								
Net Return above Operating Costs								

B32

Returns Above Operating Costs Budget Worksheet
Native Upland Hay In Big Bale
0.7 Ton Hay

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel& Lube	Power	Repairs Impl			
1 Mow	7.6 Ac/hr	0.16	0.13	0.48 D	0.31	1.28	2.07		
2 Rake	9.89 Ac/hr	0.12	0.10	0.37 D	0.24	0.38	0.99		
3 Bale	3.53 Ton/hr	0.24	0.20	0.72 D	0.47	0.35	1.54		
Subtotal		0.52 Hrs		1.57	1.02	2.01	\$4.60		
Diesel	2.19 Gal @ \$0.65	\$1.43							
Materials & Services	Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre		Sub- Total	Your Estimate	
Other Twine	3	1 bales		0.40	0.40		\$0.40		
Subtotal							\$0.40		
Total Operating Costs excluding Interest & Unpaid Labor							\$5.00		
Interest on Oper. Capital		\$5.00 @ 8.3%	for 8 Months				0.28		
Unpaid Labor		0.52 Hours	\$6.00 /hr				3.10		
Total Operating Costs							\$8.38		
Projected Returns									
Hay		0.7 Ton			@				
Total Returns									
Net Return above Operating Costs									

DESCRIPTION OF THE CROP BUDGETS FOR CENTRAL NEBRASKA

Crop budgets have been prepared that are typical to irrigated and dryland farms of central Nebraska. Not all of these crops are necessarily raised on any one farm in the area.

Items of machinery used are listed below along with use levels and cost assumptions. Tooling and cost assumptions for each operation are also listed. A summary table providing total cost estimates precedes the operating cost worksheets.

SC 1994 Machinery List -- South Central Nebraska						
Mcode	Machine	Price	Annual Use	Years to Trade	Trade in	Repairs
Power Units						
4	Diesel Pivot 281' head	80,600	900 hr	17	0	1.66/hr
10	Diesel Gated 148' head	65,600	900 hr	22	0	1.08/hr
13	Tractor 40 hp diesel	18,200	500 hr	20	2,335	1.82/hr
15	Tractor 100 hp diesel cab	47,800	500 hr	10	14,120	2.39/hr
16	Tractor 120 hp diesel cab	61,289	200 hr	10	18,103	1.23/hr
17	Tractor 150 hp diesel cab	65,573	400 hr	10	19,370	2.62/hr
84	Combine 185 hp	90,000	330 hr	10	16,977	26.77/hr
Implements						
26	Chisel 30'	14,730	2,316 ac	12	2,041	.42/ac
30	Tandem Disc 20'	14,485	900 ac	15	1,390	.49/ac
37	Field Cultivator 30'	12,949	1,200 ac	8	2,923	.19/ac
38	Row Crop Cultivator 6 row x 30"	3,803	800 ac	10	672	.28/ac
53	Spike Tooth Harrow 24'	1,172	150 ac	20	61	.01/ac
58	Grain Drill 16' hoe 2x8 10" spacing	8,508	540 ac	12	1,178	1.03/ac
66	Planter 6 row x 30"	15,640	500 ac	7	3,990	1.18/ac
73	Anhydrous Applicator 21'	8,141	500 ac	10	1,439	.22/ac
75	Sprayer 500 gallon 40' pull-type	4,780	450 ac	20	232	.07/ac
87	6 row corn head	33,562	500 ac	10	6,331	.95/ac
89	15' grain head	17,251	540 ac	10	3,255	.53/ac
103	Bale Wagon & Stacker 144 bales/loan	22,150	200 ac	15	2,127	3.53/ac
108	Shredder 6 row x 30"	8,130	950 ac	12	1,202	.43/ac
111	Grain Auger 8" X 66' PTO	3,216	90 bu000	20	178	.13/bu000
113	Grain Cart 450 bushel	9,600	90 bu000	12	1,418	10.70/bu000

1994 Operations List* South Central Nebraska

SC Operation	Power Code	Imp Code	Energy/hr	% Lube
Anhy Apply	17	73	7.70 Gal Diesel	10%
Auger	13	111	2.00 Gal Diesel	10%
Bale	Custom			
Cart	17	113	7.70 Gal Diesel	10%
Chisel	17	26	7.70 Gal Diesel	10%
Chop	Custom			
Combine	84	87	9.50 Gal Diesel	10%
Combine	84	89	9.50 Gal Diesel	10%
Disc w/Harrow	17	30	7.70 Gal Diesel	10%
Drill	16	58	6.10 Gal Diesel	10%
Dry	Custom			
Field Cult	17	37	7.70 Gal Diesel	10%
Harrow	15	53	5.10 Gal Diesel	10%
Haul & Stack	15	103	5.10 Gal Diesel	10%
Irrig.	4		5.20 Gal Diesel	10%
Irrig.	10		3.35 Gal Diesel	10%
Pack silage	17		7.70 Gal Diesel	10%
Plant	16	66	6.10 Gal Diesel	10%
Rouge	Labor			
Row Crop Cult	17	38	7.70 Gal Diesel	10%
Seeder-Packer	15	Rent	5.10 Gal Diesel	10%
Shred	17	108	7.70 Gal Diesel	10%
Spray	15	75	5.10 Gal Diesel	10%
Spray	Custom			
Spread, Fert.	15	Rent	5.10 Gal Diesel	10%
Stack Bales	Labor			
Truck	Custom			
Truck Silage	Custom			
Windrow	Custom			

*See previous page for power unit that corresponds to power code and implement code. The % lube is lube charge as a percentage of the fuel cost.

Budgeted Production Costs Summary, South Central Nebraska 1994

Budget	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12
Crop	Corn	Corn	Sorghum	Corn	Corn	Soybeans	Alfalfa	Alfalfa	Corn	Corn	Corn
Description	Grain	Silage	Grain	Grain	Silage	Irrig	Estab	Hay	Grain	Grain	Silage
	Pivot	Pivot	Pivot	Gravity	Gravity	Gravity	Irrig	Gravity	Dryland	EcoFallow	Dryland
	Irrig	Irrig	Irrig	Irrig	Irrig	Irrig		Irrig			
Yield	135.0 Bu	20.0 Ton	115.0 Bu	145.0 Bu	20.0 Ton	47.0 Bu		7.0 Ton	65.0 Bu.	80.0 Bu.	9.0 Ton
Mgt Fee/unit	\$0.10	\$0.60	\$0.10	\$0.10	\$0.60	\$0.30		\$2.00	\$0.10	\$0.10	\$0.60
Land Invest.	\$1,000	\$1,000	\$1,000	\$1,200	\$1,200	\$1,200	\$1,200	\$1,200	\$600	\$600	\$600
Unimp.	672	672	672	841	841	841	841	841	600	600	600
Irrig	328	328	328	359	359	359	359	359			
Mach Invest	\$293.47	\$229.20	\$231.14	\$298.70	\$229.20	\$204.34	\$70.45	\$348.92	\$246.19	\$174.05	\$206.75
Op Cost/ac	\$184.80	\$247.86	\$119.61	\$189.49	\$245.98	\$89.37	\$83.36	\$230.06	\$79.46	\$88.02	\$107.06
Overhead	\$9.24	\$12.39	\$5.98	\$9.47	\$12.30	\$4.47	\$4.17	\$11.50	\$3.97	\$4.40	\$5.35
Unpaid Mgt	\$13.50	\$12.00	\$11.50	\$14.50	\$12.00	\$14.10		\$14.00	\$6.50	\$8.00	\$5.40
RE Taxes	\$20.00	\$20.00	\$20.00	\$24.00	\$24.00	\$24.00		\$24.00	\$12.00	\$18.00	\$12.00
Land Interest	38.98	38.98	38.98	48.78	48.78	48.78		48.78	34.80	52.20	34.80
Irrig Interest	22.63	22.63	22.63	24.77	24.77	24.77		24.77			
Irrig Deprec	36.00	36.00	36.00	31.00	31.00	31.00		31.00			
Land Subtotal	\$117.61	\$117.61	\$117.61	\$128.55	\$128.55	\$128.55		\$128.55	\$46.80	\$70.20	\$46.80
Mach. Interest	\$20.25	\$15.81	\$15.95	\$20.61	\$15.81	\$14.10	\$4.86	\$24.08	\$16.99	\$12.01	\$14.27
Mach. Deprec	36.12	26.62	28.42	36.96	26.62	25.25	7.51	38.08	30.53	22.38	24.18
Mach. Subtotal	\$56.37	\$42.43	\$44.37	\$57.57	\$42.43	\$39.35	\$12.37	\$62.16	\$47.52	\$34.39	\$38.45
Total Owner Cost	\$173.98	\$160.04	\$161.98	\$186.12	\$170.98	\$167.90	\$12.37	\$190.70	\$94.32	\$104.59	\$85.25
Estab Costs								\$19.98			
Total Cost/ac	\$381.52	\$432.30	\$299.07	\$399.58	\$441.26	\$275.84	\$99.90	\$466.25	\$184.25	\$205.01	\$203.06
Total Cost/unit	\$2.83	\$21.61	\$2.60	\$2.76	\$22.06	\$5.87		\$66.61	\$2.83	\$2.56	\$22.56

Budgeted Production Costs Summary, South Central Nebraska 1994 (con't)

Budget Crop Description	C13 Sorghum Grain Dryland	C14 Sorghum Grain EcoFallow	C15 Sorghum Grain Dryland No-till	C16 Soybeans Dryland	C17 Wheat No-till	C18 Wheat No-till	C19 Wheat Fallow Every 3 yr	C20 Alfalfa Estab Dryland	C21 Alfalfa Hay Dryland	C22 Set Aside
Yield	70.0 Bu.	85.0 Bu.	85.0 Bu.	30.0 Bu.	39.0 Bu.	50.0 Bu.	49.0 Bu.		3.5 Ton	
Mgt Fee/unit	\$0.10	\$0.10	\$0.10	\$0.30	\$0.15	\$0.15	\$0.15		\$2.00	
Land Invest.	\$600	\$600	\$600	\$600	\$600	\$600	\$600	\$600	\$600	\$600
Unimp.	600	600	600	600	600	600	600	600	600	600
Irrig										
Mach Invest	\$202.54	\$164.09	\$117.43	\$203.79	\$176.75	\$108.46	\$206.82	\$101.04	\$18.44	\$63.90
Op Cost/ac	\$69.10	\$75.12	\$88.99	\$58.12	\$50.63	\$55.75	\$54.42	\$56.33	\$78.88	\$11.73
Overhead	\$3.45	\$3.76	\$4.45	\$2.91	\$2.53	\$2.79	\$2.72	\$2.82	\$3.94	\$0.59
Unpaid Mgt	\$7.00	\$8.50	\$8.50	\$9.00	\$5.85	\$7.50	\$7.35		\$7.00	
RE Taxes	\$12.00	\$18.00	\$12.00	\$12.00	\$12.00	\$12.00	\$18.00		\$12.00	\$12.00
Land Interest	34.80	52.20	34.80	34.80	34.80	34.80	52.20		34.80	34.80
Irrig Interest										
Irrig Deprec										
Land Subtotal	\$46.80	\$70.20	\$46.80	\$46.80	\$46.80	\$46.80	\$70.20		\$46.80	\$46.80
Mach. Interest	\$13.98	\$11.32	\$8.10	\$14.06	\$12.20	\$7.48	\$14.27	\$6.97	\$1.27	\$4.41
Mach. Deprec	25.13	20.63	15.46	25.20	21.30	13.18	24.95	10.96	1.83	7.20
Mach. Subtotal	\$39.11	\$31.95	\$23.56	\$39.26	\$33.50	\$20.66	\$39.22	\$17.93	\$3.10	\$11.61
Total Owner Cost	\$85.91	\$102.15	\$70.36	\$86.06	\$80.30	\$67.46	\$109.42	\$17.93	\$49.90	\$58.41
Estab Costs									\$15.42	
Total Cost/ac	\$165.46	\$189.53	\$172.30	\$156.09	\$139.31	\$133.50	\$173.91	\$77.08	\$155.14	\$70.73
Total Cost/unit	\$2.36	\$2.23	\$2.03	\$5.20	\$3.57	\$2.67	\$3.55		\$44.33	

C2

Returns Above Operating Costs Budget Worksheet
 Corn Grain.Pivot Irrig, Diesel,281' Head
 12 Acre-inches 135 Bu Corn

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Shred	7.73 Ac/hr	0.16	0.13	0.71 D	0.34	0.43		1.48	
2 Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.52 D	0.25	0.49		1.26	
3 Anhy Apply	6.87 Ac/hr	0.18	0.15	0.80 D	0.38	0.22		1.40	
4 Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.52 D	0.25	0.49		1.26	
5 Plant	4.9 Ac/hr	0.24	0.20	0.89 D	0.25	1.18		2.32	
6 Row Crop Cult	5.29 Ac/hr	0.23	0.19	1.04 D	0.50	0.28		1.82	
7 Row Crop Cult	5.29 Ac/hr	0.23	0.19	1.04 D	0.50	0.28		1.82	
8 Irrig.	800 GPM	0.40	6.73	25.03 D	11.18			36.21	
9 Spray	Custom								
10 Combine	3.5 Ac/hr	0.35	0.29	1.94 D	7.65	0.95		10.54	
11 Cart	1750 Bu/hr	0.10	0.08	0.42 D	0.20	1.5		2.12	
12 Truck	Custom								
13 Auger	2500 Bu/hr	0.06	0.05	0.08 D	0.10	0.02		0.20	
14 Dry	Custom								
Subtotal		2.16 Hrs		32.99	21.60	5.84		\$60.43	

Diesel 46.16 Gal @ \$0.65 \$30.00

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	5	0.33	bag	79.23	26.15	\$26.15	
Fertilizer	Anhy. N	3	145	lb. N	0.12	17.40	17.40	
	18-46-0	5	100	lb	0.11	11.00	11.00	
Chemicals	Bicep	5	0.9	qt	8.13	7.32	7.32	
	Counter 1/2	5	4.356	lb	1.64	7.14	7.14	
	Dipel 1/3	8	0.6125	pt	4.06	2.49	2.49	
	Lorsban 1/10	9	0.15	pt	5.57	0.84	0.84	
Custom	Aerial spray	9	0.1	ac	4.00	0.40	0.40	
	Truck	12	135	bu	0.12	16.20	16.20	
	Drying	14	135	bu	0.10	13.50	13.50	

Subtotal							\$102.43	
Total Operating Costs excluding Interest & Unpaid Labor							\$162.86	
Interest on Oper. Capital			\$162.86 @ 8.3%	for 8 Months			9.01	
Unpaid Labor			2.16 Hours	\$6.00 /hr			12.93	
Total Operating Costs							\$184.80	

Projected Returns								
	Corn		135	Bu	@			
	Crop Residue		2.5	AUM	@			
Total Returns								
Net Return above Operating Costs								

C3

Returns Above Operating Costs Budget Worksheet
 Corn For Silage.Pivot Irrig, Diesel,281' Head
 12 Acre-inches 20 Ton Silage

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.52 D	0.25	0.49		1.26	
2 Anhy Apply	6.87 Ac/hr	0.18	0.15	0.80 D	0.38	0.22		1.40	
3 Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.52 D	0.25	0.49		1.26	
4 Plant	4.9 Ac/hr	0.24	0.20	0.89 D	0.25	1.18		2.32	
5 Row Crop Cult	5.29 Ac/hr	0.23	0.19	1.04 D	0.50	0.28		1.82	
6 Row Crop Cult	5.29 Ac/hr	0.23	0.19	1.04 D	0.50	0.28		1.82	
7 Irrig.	800 GPM	0.40	6.73	25.03 D	11.18			36.21	
8 Spray	Custom								
9 Chop	Custom								
10 Truck Silage	Custom								
11 Pack silage	35 Ton/hr	0.68	0.57	3.15 D	1.50			4.65	
Subtotal		2.18 Hrs		32.99	14.81	2.94		\$50.74	
Diesel	46.07 Gal @ \$0.65			\$29.95					

Materials & Services		Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	4	0.33 bag	79.23	26.15	\$26.15	
Fertilizer	Anhy. N	2	220 lb. N	0.12	26.40	26.40	
	18-46-0	4	100 lb	0.11	11.00	11.00	
Chemicals	Bicep	4	0.9 qt	8.13	7.32	7.32	
	Counter 1/2	4	4.356 lb	1.64	7.14	7.14	
	Dipel 1/3	7	0.6125 pt	4.06	2.49	2.49	
	Lorsban 1/2	8	0.15 pt	5.57	0.84	0.84	
Custom	Aerial spray1/3	8	0.1 ac	4.00	0.40	0.40	
	Chop Silage	9	20 ton	2.50	50.00	50.00	
	Truck Silage	10	20 ton	2.00	40.00	40.00	
Subtotal						\$171.73	
Total Operating Costs excluding Interest & Unpaid Labor						\$222.47	
Interest on Oper. Capital \$222.47 @ 8.3% for 8 Months						12.31	
Unpaid Labor 2.18 Hours \$6.00 /hr						13.08	
Total Operating Costs						\$247.86	

Projected Returns

Silage 20 Ton @

Total Returns

Net Return above Operating Costs

C4 Returns Above Operating Costs Budget Worksheet
Sorghum Grain, Limited Pivot Irrig, Diesel, 281' Head
6 Acre-inches 115 Bu Sorghum

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl			
1 Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.52 D	0.25	0.49	1.26	
2 Anhy Apply	6.87 Ac/hr	0.18	0.15	0.80 D	0.38	0.22	1.40	
3 Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.52 D	0.25	0.49	1.26	
4 Plant	4.9 Ac/hr	0.24	0.20	0.89 D	0.25	1.18	2.32	
5 Row Crop Cult	5.29 Ac/hr	0.23	0.19	1.04 D	0.50	0.28	1.82	
6 Row Crop Cult	5.29 Ac/hr	0.23	0.19	1.04 D	0.50	0.28	1.82	
7 Irrig.	800 GPM	0.20	3.37	12.51 D	5.59		18.10	
8 Combine	4 Ac/hr	0.30	0.25	1.70 D	6.69	0.53	8.92	
9 Truck	Custom							
10 Auger	2500 Bu/hr	0.06	0.05	0.07 D	0.08	0.02	0.17	
11 Dry	Custom							
Subtotal		1.65 Hrs		19.09	14.49	3.49	\$37.07	

Diesel 26.69 Gal @ \$0.65 \$17.35

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Sorghum	4	10	lb	0.87	8.70	\$8.70	
Fertilizer	Anhy. N	2	120	lb. N	0.12	14.40	14.40	
	18-46-0	4	100	lb	0.11	11.00	11.00	
Chemicals	Ramrod-Atraz.	4	2	qt	3.73	7.46	7.46	
Custom	Truck	9	115	bu	0.12	13.80	13.80	
	Drying	11	115	bu	0.10	11.50	11.50	
Subtotal							\$66.86	
Total Operating Costs excluding Interest & Unpaid Labor							\$103.93	
Interest on Oper. Capital		\$103.93 @ 8.3% for 8 Months					5.75	
Unpaid Labor		1.65 Hours \$6.00 /hr					9.93	
Total Operating Costs							\$119.61	

Projected Returns

Sorghum 115 Bu @
Crop Residue 2.5 AUM @

Total Returns

Net Return above Operating Costs

C5

Returns Above Operating Costs Budget Worksheet
 Corn For Grain.Gravity Irrig.,Diesel,148' Head
 15 Acre-inches 145 Bu Corn

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre					Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Power	Repairs Impl				
1 Shred	7.73 Ac/hr	0.16	0.13	0.71 D	0.34	0.43			1.48	
2 Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.52 D	0.25	0.49			1.26	
3 Anhy Apply	6.87 Ac/hr	0.18	0.15	0.80 D	0.38	0.22			1.40	
4 Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.52 D	0.25	0.49			1.26	
5 Plant	4.9 Ac/hr	0.24	0.20	0.89 D	0.25	1.18			2.32	
6 Row Crop Cult	5.29 Ac/hr	0.23	0.19	1.04 D	0.50	0.28			1.82	
7 Row Crop Cult	5.29 Ac/hr	0.23	0.19	1.04 D	0.50	0.28			1.82	
8 Irrig.	1000 GPM	1.48	6.73	16.12 D	7.27				23.39	
9 Spray	Custom									
10 Spray	Custom									
11 Combine	3.5 Ac/hr	0.35	0.29	1.94 D	7.65	0.95			10.54	
12 Cart	1750 Bu/hr	0.10	0.08	0.46 D	0.22	1.5			2.18	
13 Truck	Custom									
14 Auger	2500 Bu/hr	0.07	0.06	0.08 D	0.11	0.02			0.21	
15 Dry	Custom									
Subtotal		3.24 Hrs		24.12	17.72	5.84			\$47.68	

Diesel 33.72 Gal @ \$0.65 \$21.92

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	5	0.33 bag		79.23	26.15	\$26.15	
Fertilizer	Anhy. N	3	155 lb. N		0.12	18.60	18.60	
	18-46-0	5	100 lb		0.11	11.00	11.00	
Chemicals	Bicep	5	0.9 qt		8.13	7.32	7.32	
	Counter 1/2	5	4.356 lb		1.64	7.14	7.14	
	Dipel 1/3	9	0.6125 pt		4.06	2.49	2.49	
	Lorsban 1/2	10	0.15 pt		5.57	0.84	0.84	
Custom	Aerial spray	9	1 ac		4.00	4.00	4.00	
	Aerial spray	10	1 ac		4.00	4.00	4.00	
	Truck	13	145 bu		0.12	17.40	17.40	
	Drying	15	145 bu		0.10	14.50	14.50	
Subtotal							\$113.43	
Total Operating Costs excluding Interest & Unpaid Labor							\$161.11	
Interest on Oper. Capital			\$161.11 @ 8.3%	for 8 Months			8.91	
Unpaid Labor			3.24 Hours	\$6.00 /hr			19.47	
Total Operating Costs							\$189.49	
Projected Returns								
Corn			145 Bu		@			
Crop Residue			2.5 AUM		@			
Total Returns								
Net Return above Operating Costs								

Returns Above Operating Costs Budget Worksheet
 C6 Corn For Silage, Gravity Irrig., Diesel, 148' Head
 15 Acre-inches 20 Ton Silage

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre					Your Estimate
		Labor	Mach	Fuel& Lube	Repairs Power Impl	Sub- Total			
1 Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.52 D	0.25	0.49	1.26		
2 Anhy Apply	6.87 Ac/hr	0.18	0.15	0.80 D	0.38	0.22	1.40		
3 Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.52 D	0.25	0.49	1.26		
4 Plant	4.9 Ac/hr	0.24	0.20	0.89 D	0.25	1.18	2.32		
5 Row Crop Cult	5.29 Ac/hr	0.23	0.19	1.04 D	0.50	0.28	1.82		
6 Row Crop Cult	5.29 Ac/hr	0.23	0.19	1.04 D	0.50	0.28	1.82		
7 Irrig.	1000 GPM	1.48	6.73	16.12 D	7.27		23.39		
8 Spray	Custom								
9 Spray	Custom								
10 Chop	Custom								
11 Truck Silage	Custom								
12 Pack silage	35 Ton/hr	0.68	0.57	3.15 D	1.50		4.65		
Subtotal		3.26 Hrs		24.08	10.90	2.94	\$37.92		
Diesel	33.62 Gal @ \$0.65	\$21.85							

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	4	0.33	bag	79.23	26.15	\$26.15	
Fertilizer	Anhy. N	2	220	lb. N	0.12	26.40	37.40	
	18-46-0	5	100	lb	0.11	11.00		
Chemicals	Bicep	5	0.9	qt	8.13	7.32	7.32	
	Counter 1/2	5	4.356	lb	1.64	7.14	7.14	
	Dipel 1/3	8	0.6125	pt	4.06	2.49	2.49	
	Lorsban 1/2	9	0.15	pt	5.57	0.84	0.84	
Custom	Aerial spray	8	0.33	ac	4.00	1.32	1.32	
	Aerial spray	9	1	ac	4.00	4.00	4.00	
	Chop Silage	10	20	ton	2.50	50.00	50.00	
	Truck Silage	11	20	ton	2.00	40.00	40.00	
Subtotal							\$176.65	
Total Operating Costs excluding Interest & Unpaid Labor							\$214.57	
Interest on Oper. Capital		\$214.57 @ 8.3% for 8 Months					11.87	
Unpaid Labor		3.26 Hours \$6.00 /hr					19.54	
Total Operating Costs							\$245.98	

Projected Returns							
Silage	20 Ton	@					
Total Returns							
Net Return above Operating Costs							

C7

Returns Above Operating Costs Budget Worksheet
Soybeans, Gravity Irrig., Diesel, 148' Head
9 Acre-inches 47 Bu Beans

		Hrs per Acre		Cost per Acre					
Operation # Description	Operation Rate			Fuel & Lube	Repairs		Sub- Total	Your Estimate	
		Labor	Mach		Power	Impl			
1 Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.52 D	0.25	0.49	1.26		
2 Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.52 D	0.25	0.49	1.26		
3 Plant	4.9 Ac/hr	0.24	0.20	0.89 D	0.25	1.18	2.32		
4 Row Crop Cult	5.29 Ac/hr	0.23	0.19	1.04 D	0.50	0.28	1.82		
5 Row Crop Cult	5.29 Ac/hr	0.23	0.19	1.04 D	0.50	0.28	1.82		
6 Irrig.	1000 GPM	0.89	4.04	9.67 D	4.36		14.03		
7 Combine	4 Ac/hr	0.30	0.25	1.70 D	6.69	0.53	8.92		
8 Truck	Custom								
9 Auger	2500 Bu/hr	0.02	0.02	0.03 D	0.03	0.01	0.07		
Subtotal		2.12	Hrs	15.41	12.83	3.26	\$31.50		

Diesel 21.48 Gal @ \$0.65 \$13.96

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Soybeans	3	1.2	bag	14.43	17.32	\$17.32	
Fertilizer	18-46-0	3	50	lb	0.11	5.50	5.50	
Chemicals	Lasso 4EC	3	1	qt	6.43	6.43	6.43	
	Sencor 4L	3	0.375	pt	3.25	1.22	1.22	
Custom	Truck	8	47	bu	0.12	5.64	5.64	
Other	Rouging	6	1	ac	5.00	5.00	5.00	
Subtotal							\$41.10	
Total Operating Costs excluding Interest & Unpaid Labor							\$72.60	
Interest on Oper. Capital			\$72.60 @ 8.3%	for 8 Months			4.02	
Unpaid Labor			2.12	Hours	\$6.00 /hr		12.75	
Total Operating Costs							\$89.37	

Projected Returns

Beans

47 Bu

@

Total Returns

Net Return above Operating Costs

Returns Above Operating Costs Budget Worksheet
 C8 Establish Alfalfa(5 Yr)Gravity Irrig.,Diesel 148'Head
 6 Acre-inches

		Hrs per Acre		Cost per Acre					
Operation # Description	Operation Rate			Fuel&	Repairs	Sub-	Your Estimate		
		Labor	Mach	Lube	Power Impl	Total			
1 Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.52 D	0.25	0.49	1.26		
2 Spread,Fert.	12 Ac/hr	0.10	0.08	0.30 D	0.20		0.50		
3 Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.52 D	0.25	0.49	1.26		
4 Harrow	12.33 Ac/hr	0.10	0.08	0.30 D	0.19	0.01	0.50		
5 Seeder-Packer	5.62 Ac/hr	0.22	0.18	0.65 D	0.43		1.08		
6 Spray	11.82 Ac/hr	0.10	0.08	0.31 D	0.20	0.07	0.58		
7 Irrig.	1000 GPM	0.59	2.69	6.45 D	2.91		9.36		
Subtotal		1.31 Hrs		9.05	4.43	1.06	\$14.54		
Diesel	12.54 Gal @ \$0.65		\$8.15						

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Alfalfa	6	12	lb	3.44	41.28	\$41.28	
Fertilizer	18-46-0	2	40	lb	0.11	4.40	4.40	
Chemicals	Buctril	7	1	pt	6.56	6.56	6.56	
Rental	Spread fert.	2	1	ac	1.00	1.00	1.00	
	Rent seeder	5	1	ac	3.75	3.75	3.75	
Subtotal							\$56.99	
Total Operating Costs excluding Interest & Unpaid Labor							\$71.53	
Interest on Oper. Capital			\$71.53 @ 8.3% for 8 Months			3.96		
Unpaid Labor			1.31 Hours \$6.00 /hr			7.87		
Total Operating Costs							\$83.36	

C9 Returns Above Operating Costs Budget Worksheet
 Alfalfa For Hay, Gravity Irrig., Diesel 148' Head
 16 Acre-inches 7 Ton Alfalfa

Operation # Description		Operation Rate	Hrs per Acre		Cost per Acre				Your Estimate
			Labor	Mach	Fuel & Lube	Repairs Power Impl	Sub- Total		
1	Harrow	12.33 Ac/hr	0.10	0.08	0.30 D	0.19	0.01	0.50	
2	Spread, Fert.	12 Ac/hr	0.10	0.08	0.30 D	0.20		0.50	
3	Windrow	Custom							
4	Bale	Custom							
5	Stack Bales	Labor							
6	Haul & Stack	3 Ac/hr	0.40	0.33	1.22 D	0.80	3.53	5.55	
7	Windrow	Custom							
8	Bale	Custom							
9	Stack Bales	Labor							
10	Haul & Stack	3 Ac/hr	0.40	0.33	1.22 D	0.80	3.53	5.55	
11	Windrow	Custom							
12	Bale	Custom							
13	Stack Bales	Labor							
14	Haul & Stack	3 Ac/hr	0.40	0.33	1.22 D	0.80	3.53	5.55	
15	Windrow	Custom							
16	Bale	Custom							
17	Stack Bales	Labor							
18	Haul & Stack	3 Ac/hr	0.40	0.33	1.22 D	0.80	3.53	5.55	
19	Irrig.	1000 GPM	1.58	7.18	17.20 D	7.76		24.96	
20	Spray	16.55 Ac/hr	0.07	0.06	0.22 D	0.14	0.07	0.43	
Subtotal			3.43 Hrs		22.90	11.49	14.20	\$48.59	

Diesel 31.91 Gal @ \$0.65 \$20.74

Materials & Services	Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Fertilizer 18-46-0	2	40 lb	0.11	4.40	\$4.40	
Chemicals Karmex 80W	20	2 lb	4.30	8.60	8.60	
Custom Windrower	3	1 ac	7.50	7.50	7.50	
Bale	4	70 bale	0.35	24.50	24.50	
Windrower	7	1 ac	7.50	7.50	7.50	
Bale	8	70 bale	0.35	24.50	24.50	
Windrower	11	1 ac	7.50	7.50	7.50	
Bale	12	70 bale	0.35	24.50	24.50	
Windrower	15	1 ac	7.50	7.50	7.50	
Bale	16	70 bale	0.35	24.50	24.50	
Rental Spread fert	2	1 ac	1.00	1.00	1.00	
Other Stack Bales	5	0.33 hr	6.00	1.98	1.98	
Stack Bales	9	0.33 hr	6.00	1.98	1.98	
Stack Bales	13	0.33 hr	6.00	1.98	1.98	
Stack Bales	17	0.33 hr	6.00	1.98	1.98	
Subtotal					\$149.92	
Total Operating Costs excluding Interest & Unpaid Labor					\$198.51	
Interest on Oper. Capital		\$198.51 @ 8.3% for 8 Months			10.98	
Unpaid Labor		3.43 Hours \$6.00 /hr			20.57	
Total Operating Costs					\$230.06	

Projected Returns

Alfalfa 7 Ton @

Total Returns

Net Return above Operating Costs

C10

Returns Above Operating Costs Budget Worksheet
Corn For Grain, NonIrrigated
65 Bu. Corn

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.52 D	0.25	0.49		1.26	
2 Anhy Apply	6.87 Ac/hr	0.18	0.15	0.80 D	0.38	0.22		1.40	
3 Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.52 D	0.25	0.49		1.26	
4 Plant	4.9 Ac/hr	0.24	0.20	0.89 D	0.25	1.18		2.32	
5 Row Crop Cult	5.29 Ac/hr	0.23	0.19	1.04 D	0.50	0.28		1.82	
6 Row Crop Cult	5.29 Ac/hr	0.23	0.19	1.04 D	0.50	0.28		1.82	
7 Combine	4.5 Ac/hr	0.26	0.22	1.51 D	5.95	0.95		8.41	
8 Truck	Custom								
9 Auger	2500 Bu./hr	0.04	0.03	0.04 D	0.05	0.01		0.10	
10 Dry	Custom								
Subtotal		1.39 Hrs		6.36	8.13	3.90		\$18.39	

Diesel 8.84 Gal @ \$0.65 \$5.74

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	4	0.17	bag	79.23	13.47	\$13.47	
Fertilizer	Anhy. N	2	70	lb. N	0.12	8.40	8.40	
	18-46-0	4	50	lb	0.11	5.50	5.50	
Chemicals	Bicep	4	0.9	qt	8.13	7.32	7.32	
Custom	Truck	8	65	bu	0.12	7.80	7.80	
	Drying	10	65	bu	0.10	6.50	6.50	
Subtotal							\$48.99	
Total Operating Costs excluding Interest & Unpaid Labor							\$67.38	
Interest on Oper. Capital			\$67.38 @	8.3%	for 8 Months		3.73	
Unpaid Labor			1.39	Hours	\$6.00	/hr	8.35	
Total Operating Costs							\$79.46	

Projected Returns

Corn	65 Bu.	@	
Crop Residue	1 AUM	@	
Total Returns			
Net Return above Operating Costs			

C11

Returns Above Operating Costs Budget Worksheet
 Corn EcoFallow, Follows Wheat In 3 Yr. Rotation
 80 Bu. Corn

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre					Your Estimate
		Labor	Mach	Fuel & Lube	Repairs		Sub- Total		
					Power	Impl			
1 Spray	Custom								
2 Anhy Apply	6.87 Ac/hr	0.18	0.15	0.80 D	0.38	0.22	1.40		
3 Plant	4.9 Ac/hr	0.24	0.20	0.89 D	0.25	1.18	2.32		
4 Spray	11.82 Ac/hr	0.10	0.08	0.31 D	0.20	0.07	0.58		
5 Combine	4.5 Ac/hr	0.26	0.22	1.51 D	5.95	0.95	8.41		
6 Truck	Custom								
7 Auger	2500 Bu./hr	0.04	0.03	0.05 D	0.06	0.01	0.12		
8 Dry	Custom								
Subtotal		0.82 Hrs		3.56	6.84	2.43	\$12.83		
Diesel	4.93 Gal @ \$0.65	\$3.21							

Materials & Services		Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	3	0.17 bag	79.23	13.47	\$13.47	
Fertilizer	Anhy. N	2	85 lb. N	0.12	10.20	10.20	
	18-46-0	3	50 lb	0.11	5.50	5.50	
Chemicals	2,4D Ester	1	1 pt	1.69	1.69	1.69	
	AAtrex 4L	1	5 pt	1.33	6.65	6.65	
	Bicep	4	0.9 qt	8.13	7.32	7.32	
Custom	Sprayer	1	1 ac	3.50	3.50	3.50	
	Truck	6	80 bu	0.12	9.60	17.60	
	Drying	8	80 bu	0.10	8.00		
Subtotal						\$65.93	
Total Operating Costs excluding Interest & Unpaid Labor						\$78.76	
Interest on Oper. Capital \$78.76 @ 8.3% for 8 Months						4.36	
Unpaid Labor 0.82 Hours \$6.00 /hr						4.90	
Total Operating Costs						\$88.02	

Projected Returns

Corn	80 Bu.	@	
Crop Residue	1 AUM	@	

Total Returns

Net Return above Operating Costs

C12

Returns Above Operating Costs Budget Worksheet
Corn For Silage, Non-Irrigated
9 Ton Silage

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.52 D	0.25	0.49		1.26	
2 Anhy Apply	6.87 Ac/hr	0.18	0.15	0.80 D	0.38	0.22		1.40	
3 Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.52 D	0.25	0.49		1.26	
4 Plant	4.9 Ac/hr	0.24	0.20	0.89 D	0.25	1.18		2.32	
5 Row Crop Cult	5.29 Ac/hr	0.23	0.19	1.04 D	0.50	0.28		1.82	
6 Row Crop Cult	5.29 Ac/hr	0.23	0.19	1.04 D	0.50	0.28		1.82	
7 Chop	Custom								
8 Truck Silage	Custom								
9 Pack silage	25 Ton/hr	0.43	0.36	1.98 D	0.94			2.92	
Subtotal		1.52 Hrs		6.79	3.07	2.94		\$12.80	
Diesel	9.46 Gal @ \$0.65	\$6.15							

Materials & Services		Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	4	0.17 bag	79.23	13.47	\$13.47	
Fertilizer	Anhy. N	2	110 lb. N	0.12	13.20	13.20	
	18-46-0	4	50 lb	0.11	5.50	5.50	
Chemicals	Bicep	4	0.9 qt	8.13	7.32	7.32	
Custom	Chop Silage	7	9 ton	2.50	22.50	22.50	
	Truck Silage	8	9 ton	2.00	18.00	18.00	
Subtotal						\$79.99	
Total Operating Costs excluding Interest & Unpaid Labor						\$92.79	
Interest on Oper. Capital			\$92.79 @ 8.3%	for 8 Months		5.13	
Unpaid Labor			1.52 Hours	\$6.00 /hr		9.14	
Total Operating Costs						\$107.06	
Projected Returns							
Silage			9 Ton		@		
Total Returns							
Net Return above Operating Costs							

C13

Returns Above Operating Costs Budget Worksheet
Sorghum For Grain, Non-Irrigated
70 Bu. Sorghum

				Hrs per Acre		Cost per Acre				
Operation #	Description	Operation Rate			Fuel & Lube	Repairs Power	Impl	Sub-Total	Your Estimate	
			Labor	Mach						
1	Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.52 D	0.25	0.49	1.26		
2	Anhy Apply	6.87 Ac/hr	0.18	0.15	0.80 D	0.38	0.22	1.40		
3	Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.52 D	0.25	0.49	1.26		
4	Plant	4.9 Ac/hr	0.24	0.20	0.89 0	0.25	1.18	2.32		
5	Row Crop Cult	5.29 Ac/hr	0.23	0.19	1.04 D	0.50	0.28	1.82		
6	Combine	4.5 Ac/hr	0.26	0.22	1.51 D	5.95	0.53	7.99		
7	Truck	Custom								
8	Auger	2500 Bu./hr	0.04	0.03	0.04 D	0.05	0.01	0.10		
9	Dry	Custom								
Subtotal			1.16 Hrs		5.32	7.63	3.20	\$16.15		
Diesel			7.37 Gal @ \$0.65	\$4.79						

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Sorghum	4	5	lb	1.07	5.35	\$5.35	
Fertilizer	Anhy. N	2	75	lb. N	0.12	9.00	9.00	
	18-46-0	4	50	lb	0.11	5.50	5.50	
Chemicals	Ramrod-Atraz.	4	2	qt	3.73	7.46	7.46	
Custom	Truck	7	70	bu	0.12	8.40	8.40	
	Drying	9	70	bu	0.10	7.00	7.00	
Subtotal							\$42.71	
Total Operating Costs excluding Interest & Unpaid Labor							\$58.86	
Interest on Oper. Capital			\$58.86 @ 8.3%		for 8 Months		3.26	
Unpaid Labor			1.16		Hours \$6.00 /hr		6.98	
Total Operating Costs							\$69.10	
Projected Returns								
Sorghum			70		Bu.		@	
Total Returns								
Net Return above Operating Costs								

C14

Returns Above Operating Costs Budget Worksheet
Sorghum, Eco-Fallow, Follows Wheat In 3-Yrs. Rotation
85 Bu. Sorghum

		Hrs per Acre		Cost per Acre					
Operation #	Description	Operation Rate	Labor	Mach	Fuel & Lube	Repairs Power	Impl	Sub-Total	Your Estimate
1	Spray	11.82 Ac/hr	0.10	0.08	0.31 D	0.20	0.07	0.58	
2	Anhy Apply	6.87 Ac/hr	0.18	0.15	0.80 D	0.38	0.22	1.40	
3	Plant	4.9 Ac/hr	0.24	0.20	0.89 D	0.25	1.18	2.32	
4	Spray	11.82 Ac/hr	0.10	0.08	0.31 D	0.20	0.07	0.58	
5	Combine	4.5 Ac/hr	0.26	0.22	1.51 D	5.95	0.53	7.99	
6	Truck	Custom							
7	Dry	Custom							
8	Auger	2500 Bu./hr	0.04	0.03	0.05 D	0.06	0.01	0.12	
Subtotal			0.91 Hrs		3.87	7.04	2.08	\$12.99	
Diesel		5.34 Gal @ \$0.65	\$3.47						

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Sorghum	3	5	lb	1.07	5.35	\$5.35	
Fertilizer	Anhy. N	2	80	lb. N	0.12	9.60	9.60	
	18-46-0	3	50	lb	0.11	5.50	5.50	
Chemicals	AAtrex 4L	1	4	pt	1.33	5.32	5.32	
	Bicep	4	1.05	qt	8.13	8.54	8.54	
Custom	Truck	6	85	bu	0.12	10.20	10.20	
	Drying	8	85	bu	0.10	8.50	8.50	
Subtotal							\$53.01	
Total Operating Costs excluding Interest & Unpaid Labor							\$66.00	
Interest on Oper. Capital			\$66.00 @ 8.3% for 8 Months			3.65		
Unpaid Labor			0.91 Hours \$6.00 /hr			5.47		
Total Operating Costs							\$75.12	
Projected Returns								
Sorghum			85	Bu.	@			
Crop Residue			1	AUM	@			
Total Returns								
Net Return above Operating Costs								

C15

Returns Above Operating Costs Budget Worksheet
Sorghum For Grain, Continuous, No-till, Dryland
85 Bu. Sorghum

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre					Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl	Sub- Total			
1 Spray	Custom								
2 Plant	4.9 Ac/hr	0.24	0.20	0.89 D	0.25	1.18	2.32		
3 Combine	4.5 Ac/hr	0.26	0.22	1.51 D	5.95	0.53	7.99		
4 Truck	Custom								
5 Dry	Custom								
6 Auger	2500 Bu./hr	0.04	0.03	0.05 D	0.06	0.01	0.12		
Subtotal		0.54 Hrs		2.45	6.26	1.72	\$10.43		
Diesel	3.37 Gal @ \$0.65	\$2.19							

Materials & Services		Operation #	Units per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Sorghum	2	5	lb	1.07	5.35	\$5.35	
Fertilizer	28-0-0	1	90	lb. N	0.23	20.70	20.70	
	18-46-0	2	50	lb	0.11	5.50	5.50	
Chemicals	Bicep	1	2.1	qt	8.13	17.07	17.07	
Custom	Sprayer	1	1	ac	3.50	3.50	3.50	
	Truck	4	85	bu	0.12	10.20	10.20	
	Drying	6	85	bu	0.10	8.50	8.50	
Subtotal							\$70.82	
Total Operating Costs excluding Interest & Unpaid Labor							\$81.25	
Interest on Oper. Capital			\$81.25 @ 8.3% for 8 Months				4.50	
Unpaid Labor			0.54 Hours \$6.00 /hr				3.24	
Total Operating Costs							\$88.99	

Projected Returns

Sorghum	85 Bu.	@	
Crop Residue	1 AUM	@	
Total Returns			
Net Return above Operating Costs			

C16

Returns Above Operating Costs Budget Worksheet
Soybeans, Non-Irrigated
30 Bu. Beans

		Hrs per Acre		Cost per Acre					
Operation #	Description	Operation Rate	Labor	Mach	Fuel & Lube	Repairs Power	Impl	Sub-Total	Your Estimate
1	Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.52 D	0.25	0.49	1.26	
2	Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.52 D	0.25	0.49	1.26	
3	Plant	4.9 Ac/hr	0.24	0.20	0.89 D	0.25	1.18	2.32	
4	Row Crop Cult	5.29 Ac/hr	0.23	0.19	1.04 D	0.50	0.28	1.82	
5	Row Crop Cult	5.29 Ac/hr	0.23	0.19	1.04 D	0.50	0.28	1.82	
6	Combine	4 Ac/hr	0.30	0.25	1.70 D	6.69	0.53	8.92	
7	Truck	Custom							
8	Auger	2500 Bu./hr	0.01	0.01	0.02 D	0.02		0.04	
Subtotal			1.22 Hrs		5.73	8.46	3.25	\$17.44	
Diesel		7.93 Gal @ \$0.65	\$5.15						

Materials & Services		Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Soybeans	3	1 bag	14.43	14.43	\$14.43	
Chemicals	Lasso 4EC	3	1 qt	6.43	6.43	6.43	
	Sencor 4L	3	0.375 pt	3.25	1.22	1.22	
Custom	Truck	7	30 bu	0.12	3.60	3.60	
Other	Rouging	5	1 ac	5.00	5.00	5.00	
Subtotal						\$30.68	
Total Operating Costs excluding Interest & Unpaid Labor						\$48.12	
Interest on Oper. Capital			\$48.12 @ 8.3%	for 8 Months		2.66	
Unpaid Labor			1.22 Hours	\$6.00 /hr		7.34	
Total Operating Costs						\$58.12	
Projected Returns							
Beans			30 Bu.	@			
Total Returns							
Net Return above Operating Costs							

C17

Returns Above Operating Costs Budget Worksheet
Wheat For Grain, Continuous Cropped
39 Bu. Wheat

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Power	Repairs Impl			
1 Chisel	9.76 Ac/hr	0.12	0.10	0.56 D	0.27	0.42		1.25	
2 Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.52 D	0.25	0.49		1.26	
3 Anhy Apply	6.87 Ac/hr	0.18	0.15	0.80 D	0.38	0.22		1.40	
4 Field Cult	12.22 Ac/hr	0.10	0.08	0.45 D	0.21	0.19		0.85	
5 Drill	5.62 Ac/hr	0.22	0.18	0.78 D	0.22	1.03		2.03	
6 Combine	5.5 Ac/hr	0.22	0.18	1.24 D	4.87	0.53		6.64	
7 Truck	Custom								
8 Auger	2500 Bu./hr	0.02	0.02	0.02 D	0.03	0.01		0.06	
9 Spray	16.55 Ac/hr	0.07	0.06	0.22 D	0.14	0.07		0.43	
Subtotal		1.03 Hrs		4.59	6.37	2.96		\$13.92	

Diesel 6.39 Gal @ \$0.65 \$4.15

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Wheat	5	60	lb	0.17	10.20	\$10.20	
Fertilizer	Anhy. N	3	40	lb. N	0.12	4.80	4.80	
	18-46-0	5	50	lb	0.11	5.50	5.50	
Chemicals	2,4D Ester	9	1	pt	1.69	1.69	1.69	
Custom	Truck	7	50	bu	0.12	6.00	6.00	
Subtotal							\$28.19	
Total Operating Costs excluding Interest & Unpaid Labor							\$42.11	
Interest on Oper. Capital			\$42.11 @ 8.3% for 8 Months				2.33	
Unpaid Labor			1.03 Hours \$6.00 /hr				6.19	
Total Operating Costs							\$50.63	

Projected Returns

Wheat

39 Bu.

@

Total Returns

Net Return above Operating Costs

C18

Returns Above Operating Costs Budget Worksheet
 Wheat For Grain, Continuous Cropped, No Till
 50 Bu. Wheat

				Cost per Acre					
Operation #	Description	Operation Rate	Hrs per Acre		Fuel & Lube	Repairs Power	Impl	Sub-Total	Your Estimate
			Labor	Mach					
1	Spray	16.55 Ac/hr	0.07	0.06	0.22 D	0.14	0.07	0.43	
2	Spread, Fert.	12.22 Ac/hr	0.10	0.08	0.30 D	0.20		0.50	
3	Drill	5.62 Ac/hr	0.22	0.18	0.78 D	0.22	1.03	2.03	
4	Combine	5.5 Ac/hr	0.22	0.18	1.24 D	4.87	0.53	6.64	
5	Truck	Custom							
6	Auger	2500 Bu./hr	0.02	0.02	0.03 D	0.04	0.01	0.08	
Subtotal			0.62 Hrs		2.57	5.47	1.64	\$9.68	
Diesel		3.56 Gal @ \$0.65		\$2.32					

Materials & Services		Operation #	Units per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Wheat	3	60	lb	0.17	10.20	\$10.20	
Fertilizer	46-0-0	1	50	lb. N	0.23	11.50	11.50	
	18-46-0	3	50	lb	0.11	5.50	5.50	
Chemicals	2,4D Ester	3	0.5	pt	1.69	0.85	0.84	
	Glean	3	0.25	oz	18.23	4.56	4.56	
Custom	Truck	5	50	bu	0.12	6.00	6.00	

C19

Returns Above Operating Costs Budget Worksheet
 Wheat For Grain, Fallow Every Third Yr.
 49 Bu. Wheat

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Power	Repairs Impl			
1 Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.52 D	0.25	0.49		1.26	
2 Chisel	9.76 Ac/hr	0.12	0.10	0.56 D	0.27	0.42		1.25	
3 Chisel	9.76 Ac/hr	0.12	0.10	0.56 D	0.27	0.42		1.25	
4 Field Cult	12.22 Ac/hr	0.10	0.08	0.45 D	0.21	0.19		0.85	
5 Anhy Apply	6.87 Ac/hr	0.18	0.15	0.80 D	0.38	0.22		1.40	
6 Field Cult	12.22 Ac/hr	0.10	0.08	0.45 D	0.21	0.19		0.85	
7 Drill	5.62 Ac/hr	0.22	0.18	0.78 D	0.22	1.03		2.03	
8 Combine	5.5 Ac/hr	0.22	0.18	1.24 D	4.87	0.53		6.64	
9 Truck	Custom								
10 Auger	2500 Bu./hr	0.02	0.02	0.03 D	0.04	0.01		0.08	
11 Spray	16.55 Ac/hr	0.07	0.06	0.22 D	0.14	0.07		0.43	
Subtotal		1.25 Hrs		5.61	6.86	3.57		\$16.04	

Diesel 7.77 Gal @ \$0.65 \$5.05

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Wheat	7	60	lb	0.17	10.20	\$10.20	
Fertilizer	Anhy. N	5	50	lb. N	0.12	6.00	6.00	
	18-46-0	7	50	lb	0.11	5.50	5.50	
Chemicals	2,4D Ester	11	0.5	pt	1.69	0.85	0.84	
Custom	Truck	9	49	bu	0.12	5.88	5.88	
Subtotal							\$28.43	
Total Operating Costs excluding Interest & Unpaid Labor							\$44.47	
Interest on Oper. Capital			\$44.47 @ 8.3% for 8 Months				2.46	
Unpaid Labor			1.25 Hours \$6.00 /hr				7.49	
Total Operating Costs							\$54.42	

Projected Returns

Wheat 49 Bu. @

Total Returns

Net Return above Operating Costs

G20

Returns Above Operating Costs Budget Worksheet
 Establish Alfalfa(5 Yr.Life) Dryland

				Cost per Acre					
Operation # Description	Operation Rate	Hrs per Acre		Fuel & Lube	Power	Repairs Impl	Sub- Total	Your Estimate	
		Labor	Mach						
1 Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.52 D	0.25	0.49	1.26		
2 Chisel	9.76 Ac/hr	0.12	0.10	0.56 D	0.27	0.42	1.25		
3 Chisel	9.76 Ac/hr	0.12	0.10	0.56 D	0.27	0.42	1.25		
4 Spread,Fert.	6.5 Ac/hr	0.18	0.15	0.56 D	0.37		0.93		
5 Disc w/Harrow	12.22 Ac/hr	0.10	0.08	0.45 D	0.21	0.49	1.15		
6 Harrow	12.33 Ac/hr	0.10	0.08	0.30 D	0.19	0.01	0.50		
7 Seeder-Packer	5.62 Ac/hr	0.22	0.18	0.65 D	0.43		1.08		
8 Spray	16.55 Ac/hr	0.07	0.06	0.22 D	0.14	0.07	0.43		
Subtotal		1.01 Hrs		3.82	2.13	1.90	\$7.85		
Diesel	5.25 Gal @ \$0.65 \$3.41								

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Alfalfa	7	7	lb	3.44	24.08	\$24.08	
Fertilizer	18-46-0	4	40	lb	0.11	4.40	4.40	
Chemicals	Buctril	9	1	pt	6.56	6.56	6.56	
Rental	Spread fert.	4	1	ac	1.00	1.00	1.00	
	Rent seeder	7	1	ac	3.75	3.75	3.75	
Subtotal							\$39.79	
Total Operating Costs excluding Interest & Unpaid Labor							\$47.64	
Interest on Oper. Capital			\$47.64 @ 8.3% for 8 Months				2.64	
Unpaid Labor			1.01 Hours \$6.00 /hr				6.05	
Total Operating Costs							\$56.33	

C21

Returns Above Operating Costs Budget Worksheet
 Alfalfa Hay Non-Irrigated
 3.5 Ton Alfalfa

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Power	Repairs Impl			
1 Harrow	12.33 Ac/hr	0.10	0.08	0.30 D	0.19	0.01		0.50	
2 Windrow	Custom								
3 Bale	Custom								
4 Stack Bales	Labor								
5 Windrow	Custom								
6 Bale	Custom								
7 Stack Bales	Labor								
8 Windrow	Custom								
9 Bale	Custom								
10 Stack Bales	Labor								
11 Spray	16.55 Ac/hr	0.07	0.06	0.22 D	0.14	0.07		0.43	
Subtotal		0.17 Hrs		0.52	0.33	0.08		\$0.93	

Diesel 0.71 Gal @ \$0.65 \$0.46

Materials & Services		Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Chemicals	Karmex 80W	11	2 lb	4.30	8.60	\$8.60	
Custom	Windrow	2	1 ac	7.50	7.50	7.50	
	Bale	3	36 bale	0.35	12.60	12.60	
	Windrow	5	1 ac	7.50	7.50	7.50	
	Bale	6	36 bale	0.35	12.60	12.60	
	Windrow	8	1 ac	7.50	7.50	7.50	
	Bale	9	36 bale	0.35	12.60	12.60	
Other	Stack Bales	4	0.22 hr	6.00	1.32	1.32	
	Stack Bales	7	0.22 hr	6.00	1.32	1.32	
	Stack Bales	10	0.22 hr	6.00	1.32	1.32	
Subtotal						\$72.86	
Total Operating Costs excluding Interest & Unpaid Labor						\$73.79	
Interest on Oper. Capital		\$73.79 @ 8.3% for 8 Months				4.08	
Unpaid Labor		0.17 Hours \$6.00 /hr				1.01	
Total Operating Costs						\$78.88	

Projected Returns

Alfalfa 3.5 Ton @

Total Returns

Net Return above Operating Costs

Returns Above Operating Costs Budget Worksheet
 Establish and Maintain Cover Crop on Set Aside Ac.

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel& Lube	Power	Repairs Impl			
1 Disc w/Harrow	10.63 Ac/hr	0.11	0.09	0.52 D	0.25	0.49	1.26		
2 Drill	9.76 Ac/hr	0.12	0.10	0.45 D	0.13	1.03	1.61		
3 Shred	9.76 Ac/hr	0.12	0.10	0.56 D	0.27	0.43	1.26		
Subtotal		0.35 Hrs		1.53	0.65	1.95	\$4.13		
Diesel	2.07 Gal @ \$0.65 \$1.35								
Materials & Services	Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre		Sub- Total	Your Estimate	
Seed Oats	2	1 bu		5.00	5.00		\$5.00		
Subtotal							\$5.00		
Total Operating Costs excluding Interest & Unpaid Labor							\$9.13		
Interest on Oper. Capital		\$9.13 @ 8.3%		for 8 Months			0.51		
Unpaid Labor		0.35 Hours		\$6.00 /hr			2.09		
Total Operating Costs							\$11.73		

DESCRIPTION OF THE CROP BUDGETS FOR NORTHEAST NEBRASKA

The production systems budgeted here are representative of those in the rolling hills of northeast Nebraska with Moody-Crofton soils. Both dryland and center pivot irrigation budgets are provided for crops produced in this area. Center pivot irrigated corn and alfalfa establishment budgets are included for the sandy soils of Pierce, Antelope, and Holt Counties.

Items of machinery used are listed below along with use levels and cost assumptions. Tooling and cost assumptions for each operation are also listed. A summary table providing total cost estimates precedes the operating cost worksheets.

NE 1994 Machinery List -- Northeastern Nebraska						
Mcode	Machine	Price	Annual Use	Years to Trade	Trade in	Repairs
Power Units						
2	Diesel Pivot 206' head	71,900	900 hr	17	0	1.49/hr
3	Elec Pivot 281' head	74,700	900 hr	20	0	1.19/hr
16	Tractor 120 hp diesel cab	61,289	200 hr	10	18,103	1.23/hr
17	Tractor 150 hp diesel cab	65,573	400 hr	10	19,370	2.62/hr
84	Combine 185 hp	90,000	200 hr	10	16,977	15.44/hr
Implements						
30	Tandem Disc 20'	14,485	900 ac	17	1,089	.53/ac
38	Row Crop Cultivator 6 row x 30"	3,803	800 ac	12	527	.35/ac
49	Roller/Packer 15'	11,000	300 ac	20	574	.24/ac
53	Spike Tooth Harrow 24'	1,172	150 ac	20	61	.01/ac
62	Grain Drill 16' disk	7,890	540 ac	12	1,093	.95/ac
66	Planter 6 row x 30"	15,640	500 ac	8	3,532	1.38/ac
76	Sprayer 300 gallon 20' 3 point mount	2,050	1,275 ac	12	265	.09/ac
87	6 row corn head	33,562	760 ac	10	6,331	1.50/ac
89	15' grain head	17,251	500 ac	15	1,767	.76/ac
92	15' pickup head	17,378	760 ac	10	3,278	.79/ac
95	Swather/Conditioner 14' pull-type	21,042	500 ac	20	1,169	1.34/ac
100	Small Square Baler wire tie	11,437	400 ton	20	556	.74/ton
101	Large Round Baler	19,182	800 ton	15	1,719	1.17/ton
103	Bale Wagon & Stacker 144 bales/load	22,150	200 ac	19	1,310	4.26/ac
111	Grain Auger 8" X 66' PTO	3,216	150 bu000	20	178	.21/bu000
113	Grain Cart 450 bushel	9,600	510 bu000	15	983	19.26/bu000

1994 Operations List* Northeastern Nebraska

NE Operation	Power Code	Imp Code	Energy/hr			% Lube
Apply Anhy	17	Rent	7.70	Gal	Diesel	10%
Auger	16	111	6.10	Gal	Diesel	10%
Bale	16	100	6.10	Gal	Diesel	10%
Bale	17	101	7.70	Gal	Diesel	10%
Cart	16	113	6.10	Gal	Diesel	10%
Combine	84	87	9.50	Gal	Diesel	10%
Combine	84	89	9.50	Gal	Diesel	10%
Combine	84	92	9.50	Gal	Diesel	10%
Disc w/Harrow	17	30	7.70	Gal	Diesel	10%
Drill	16	62	6.10	Gal	Diesel	10%
Dry	Custom					
Harrow	17	53	7.70	Gal	Diesel	10%
Irrig.	2		4.00	Gal	Diesel	10%
Irrig.	3		73.00	Kwh	Elec	1.3%
Move Bales	16	103	6.10	Gal	Diesel	10%
Plant	16	66	6.10	Gal	Diesel	10%
Rogue	Labor					
Roll	16	49	6.10	Gal	Diesel	10%
Row Crop Cult	16	38	6.10	Gal	Diesel	10%
Spray	16	76	6.10	Gal	Diesel	10%
Spray	Custom					
Spray in tandem		76				
Spread Fert.	Custom					
Truck	Custom					
Windrow	17	95	7.70	Gal	Diesel	10%

*See previous page for power unit that corresponds to power code and implement code. The % lube is lube charge as a percentage of the fuel cost.

Budgeted Production Costs Summary, Northeast Nebraska 1994

Budget	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13
Crop	Corn	Corn	Corn	Corn	Soybeans	Soybeans	Oats	Oats	Alfalfa	Alfalfa	Alfalfa	Alfalfa
Description	Grain	Grain	Grain	Grain	Dryland	Irrig	Dryland	Estab	Estab	Estab	Hay	Hay
	Pivot	Pivot	Dryland	Full-plant		Pivot		Alfalfa	Share	Fall	Large	Small
	Sandy	Rolling	Rolling	Rolling					of D9	Sandy	Round	Square
	Soil	Hills	Hills	Hills						Soils		
Yield	140.0 Bu	130.0 Bu	80.0 Bu	80.0 Bu	40.0 Bu	50.0 Bu	80.0 Bu	80.0 Bu			3.0 Ton	3.0 Ton
Mgt Fee/unit	\$0.10	\$0.10	\$0.10	\$0.10	\$0.30	\$0.30	\$0.08	\$0.10	\$2.00	\$2.00	\$2.00	\$0.10
Land Invest.	\$750	\$850	\$850	\$850	\$850	\$850	\$850	\$850	\$850	\$750	\$850	\$750
Unimp.	457	548	850	850	850	548	850	850	850	750	850	750
Irrig	293	302				302						
Mach Invest	\$243.84	\$327.18	\$330.01	\$278.12	\$239.77	\$240.67	\$147.25	\$164.00	\$67.34	\$137.24	\$457.22	\$287.11
Op Cost/ac	\$160.47	\$164.46	\$117.31	\$112.34	\$66.83	\$90.11	\$116.59	\$129.51	\$66.99	\$78.41	\$66.10	\$106.93
Overhead	\$8.02	\$8.22	\$5.87	\$5.62	\$3.34	\$4.51	\$5.83	\$6.48	\$3.35	\$3.92	\$3.30	\$5.35
Unpaid Mgt	\$14.00	\$13.00	\$8.00	\$8.00	\$12.00	\$15.00	\$6.40	\$8.00			\$6.00	\$0.30
RE Taxes	\$8.00	\$15.00	\$10.00	\$10.00	\$10.00	\$15.00	\$10.00	\$10.00			\$10.00	\$10.00
Land Interest	26.51	31.78	49.30	49.30	49.30	31.78	49.30	49.30			49.30	43.50
Irrig Interest	20.22	20.84				20.84						
Irrig Deprec	32.00	30.00				30.00						
Land Subtotal	\$86.72	\$97.62	\$59.30	\$59.30	\$59.30	\$97.62	\$59.30	\$59.30			\$59.30	\$53.50
Mach. Interest	\$16.82	\$22.58	\$22.77	\$19.19	\$16.54	\$16.61	\$10.16	\$11.32	\$4.65	\$9.47	\$31.55	\$19.81
Mach. Deprec	30.10	39.16	39.69	33.97	28.90	29.00	18.41	19.86	7.41	14.58	45.87	29.15
Mach. Subtotal	\$46.92	\$61.74	\$62.46	\$53.16	\$45.44	\$45.61	\$28.57	\$31.18	\$12.06	\$24.05	\$77.42	\$48.96
Total Owner Cost	\$133.65	\$159.36	\$121.76	\$112.46	\$104.74	\$143.23	\$87.87	\$90.48	\$12.06	\$24.05	\$136.72	\$102.46
Estab Costs											\$11.77	\$11.77
Total Cost/ac	\$316.14	\$345.04	\$252.94	\$238.42	\$186.92	\$252.84	\$216.69	\$234.46	\$82.40	\$106.38	\$223.89	\$226.81
Total Cost/unit	\$2.26	\$2.65	\$3.16	\$2.98	\$4.67	\$5.06	\$2.71	\$2.93			\$74.63	\$75.60

Returns Above Operating Costs Budget Worksheet
 D2 Corn Grain.Pivot Irrig, Diesel,206'Head,Sandy Soils
 10 Acre-inches 140 Bu Corn

				Cost per Acre					
Operation #	Description	Operation Rate	Hrs per Acre		Fuel& Lube	Repairs		Sub-Total	Your Estimate
			Labor	Mach		Power	Impl		
1	Apply Anhy	9.7 Ac/hr	0.12	0.10	0.57	D 0.27		0.84	
2	Disc w/Harrow	7.8 Ac/hr	0.16	0.13	0.71	D 0.34	0.53	1.58	
3	Plant	4.9 Ac/hr	0.24	0.20	0.89	D 0.25	1.38	2.52	
4	Row Crop Cult	5.1 Ac/hr	0.24	0.20	0.86	D 0.24	0.35	1.45	
5	Irrig.	800 GPM	0.34	5.61	16.04	D 8.36		24.40	
6	Combine	3.8 Ac/hr	0.31	0.26	1.79	D 4.06	1.5	7.35	
7	Auger	2500 Bu/hr	0.07	0.06	0.24	D 0.07	0.03	0.34	
8	Truck	Custom							
9	Dry	Custom							
Subtotal			1.48 Hrs		21.10	13.59	3.79	\$38.48	
Diesel			29.49 Gal @ \$0.65		\$19.17				

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	3	0.33	bag	79.23	26.15	\$26.15	
Fertilizer	Anhy. N	1	100	lb. N	0.12	12.00	12.00	
	10-30-0-10-1z	3	100	lb	0.11	11.00	11.00	
	28-0-0	5	60	lb. N	0.23	13.80	13.80	
Chemicals	Atrazine 90 DF	3	0.55	lb	3.02	1.66	1.66	
	Counter 1/4 yr	3	2	lb	1.64	3.28	3.28	
	Lasso 4EC	3	1	qt	6.43	6.43	6.43	
	Lorsban 1/3 yr	5	0.33	pt	5.57	1.84	1.84	
	Lorsban 1/4 yr	5	0.25	pt	5.57	1.39	1.39	
Custom	Truck	8	140	bu	0.12	16.80	16.80	
	Dryer 2/3	9	93.32	bu	0.10	9.33	9.33	
Rental	Anhy Applic	1	1	ac	1.50	1.50	1.50	
Subtotal							\$105.18	
Total Operating Costs excluding Interest & Unpaid Labor							\$143.66	
Interest on Oper. Capital			\$143.66	@ 8.3%	for 8 Months		7.95	
Unpaid Labor			1.48	Hours	\$6.00 /hr		8.86	
Total Operating Costs							\$160.47	
Projected Returns								
Corn			140	Bu	@			
Total Returns								
Net Return above Operating Costs								

D3

Returns Above Operating Costs Budget Worksheet
 Corn Grain.Pivot Irrig, Elect.,281'Head Rolling Hills
 7 Acre-inches 130 Bu Corn

Cost per Acre

Operation # Description	Operation Rate	Hrs per Acre		Fuel & Repairs		Sub- Total	Your Estimate
		Labor	Mach	Lube	Power Impl		
1 Disc w/Harrow	7.8 Ac/hr	0.16	0.13	0.71 D	0.34	1.58	
2 Apply Anhy	9.7 Ac/hr	0.12	0.10	0.57 D	0.27	0.84	
3 Disc w/Harrow	7.8 Ac/hr	0.16	0.13	0.71 D	0.34	1.58	
4 Plant	4.9 Ac/hr	0.24	0.20	0.89 D	0.25	2.52	
5 Spray	10.2 Ac/hr	0.12	0.10	0.43 D	0.12	0.64	
6 Row Crop Cult	5.1 Ac/hr	0.24	0.20	0.86 D	0.24	1.45	
7 Row Crop Cult	5.1 Ac/hr	0.24	0.20	0.86 D	0.24	1.45	
8 Irrig.	800 GPM	0.24	3.93	21.72 E	4.67	26.39	
9 Combine	3.8 Ac/hr	0.31	0.26	1.79 D	4.06	7.35	
10 Truck	Custom						
11 Auger	2500 Bu/hr	0.06	0.05	0.23 D	0.06	0.32	
12 Dry	Custom						
Subtotal		1.88 Hrs		28.77	10.59	4.76 \$44.12	

Diesel 9.82 Gal @ \$0.65 \$6.38
 Electricity 286.89 KWH @ \$0.075 \$21.52

Materials & Services		Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	4	0.33 bag	79.23	26.15	\$26.15	
Fertilizer	Anhy N	2	130 lh. N	0.12	15.60	15.60	
	10-34-0 Liq	4	8.4 gal	1.22	10.25	10.25	
Chemicals	Bladex 90 DF	4	0.55 lb	5.31	2.92	2.92	
	Lasso 4EC	4	1 qt	6.43	6.43	6.43	
	2,4-D Ester	5	0.5 pt	1.69	0.85	0.85	
	Counter 3/4 yr	5	6 lb	1.64	9.84	9.84	
	Lorsban 1/3 yr	8	0.33 pt	5.57	1.84	1.84	
	Lorsban 1/4 yr	8	0.25 pt	5.57	1.39	1.39	
Custom	Truck	10	130 bu	0.12	15.60	15.60	
	Dryer 2/3	12	86.66 bu	0.10	8.67	8.67	
Rental	Anhy Applic	2	1 ac	1.50	1.50	1.50	
Subtotal						\$101.03	
Total Operating Costs excluding Interest & Unpaid Labor						\$145.15	
Interest on Oper. Capital \$145.15 @ 8.3% for 8 Months						8.03	
Unpaid Labor 1.88 Hours \$6.00 /hr						11.28	
Total Operating Costs						\$164.46	

Projected Returns

Corn 130 Bu @
 Crop Residue 2.5 AUM @

Total Returns

Net Return above Operating Costs

D4

Returns Above Operating Costs Budget Worksheet
Cont. Corn For Grain, Rolling Hills
80 Bu Corn

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Your Estimate
		Labor	Mach	Fuel & Lube	Repairs		Sub- Total	
					Power	Impl		
1 Apply Anhy	9.7 Ac/hr	0.12	0.10	0.57	D 0.27		0.84	
2 Disc w/Harrow	7.8 Ac/hr	0.16	0.13	0.71	D 0.34	0.53	1.58	
3 Disc w/Harrow	7.8 Ac/hr	0.16	0.13	0.71	D 0.34	0.53	1.58	
4 Plant	4.9 Ac/hr	0.24	0.20	0.89	D 0.25	1.38	2.52	
5 Row Crop Cult	5.1 Ac/hr	0.24	0.20	0.86	D 0.24	0.35	1.45	
6 Row Crop Cult	5.1 Ac/hr	0.24	0.20	0.86	D 0.24	0.35	1.45	
7 Spray	10.2 Ac/hr	0.12	0.10	0.43	D 0.12	0.09	0.64	
8 Spray	Custom							
9 Combine	3.44 Ac/hr	0.35	0.29	1.97	D 4.49	1.5	7.96	
10 Truck	Custom							
11 Auger	2500 Bu/hr	0.04	0.03	0.14	D 0.04	0.02	0.20	
12 Dry	Custom							
Subtotal		1.66 Hrs		7.14	6.33	4.75	\$18.22	
Diesel	9.98 Gal @ \$0.65	\$6.49						

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	4	0.25	bag	79.23	19.81	\$19.81	
Fertilizer	Anhy. N	1	80	lb. N	0.12	9.60	9.60	
	10-34-0 Liq	4	8.4	gal	1.22	10.25	10.25	
Chemicals	Bladex 90 DF	4	0.55	lb	5.31	2.92	2.92	
	Lasso 4EC	4	1	qt	6.43	6.43	6.43	
	2,4-D Ester	7	0.5	pt	1.69	0.85	0.85	
	Counter 3/4 yr	7	6	lb	1.64	9.84	9.84	
	Furadan 1/4 yr	8	2	lb	1.70	3.40	3.40	
Custom	Aerial Spray	8	1	ac	4.00	4.00	4.00	
	Truck	10	80	bu	0.12	9.60	9.60	
	Dryer 2/3	12	53.32	bu	0.10	5.33	5.33	
Rental	Anhy Applic	1	1	ac	1.50	1.50	1.50	
Subtotal							\$83.52	
Total Operating Costs excluding Interest & Unpaid Labor							\$101.74	
Interest on Oper. Capital			\$101.74	@ 8.3%	for 8 Months		5.63	
Unpaid Labor			1.66	Hours	\$6.00 /hr		9.94	
Total Operating Costs							\$117.31	
Projected Returns								
Corn			80	Bu	@			
Crop Residue			2	AUM	@			
Total Returns								
Net Return above Operating Costs								

D5

Returns Above Operating Costs Budget Worksheet
 Corn For Grain, Ridge-Till Plant Rolling Hills
 80 Bu Corn

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Apply Anhy	9.7 Ac/hr	0.12	0.10	0.57 D	0.27			0.84	
2 Plant	4.9 Ac/hr	0.24	0.20	0.89 D	0.25	1.38		2.52	
3 Row Crop Cult	5.1 Ac/hr	0.24	0.20	0.86 D	0.24	0.35		1.45	
4 Row Crop Cult	5.1 Ac/hr	0.24	0.20	0.86 D	0.24	0.35		1.45	
5 Spray	10.2 Ac/hr	0.12	0.10	0.43 D	0.12	0.09		0.64	
6 Spray	Custom								
7 Combine	3.8 Ac/hr	0.31	0.26	1.79 D	4.06	1.5		7.35	
8 Truck	Custom								
9 Auger	2500 Bu/hr	0.04	0.03	0.14 D	0.04	0.02		0.20	
10 Dry	Custom								
Subtotal		1.31 Hrs		5.54	5.22	3.69		\$14.45	

Diesel 7.69 Gal @ \$0.65 \$5.00

Materials & Services		Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	2	0.25 bag	79.23	19.81	\$19.81	
Fertilizer	Anhy. N	1	80 lb. N	0.12	9.60	9.60	
	10-34-0 Liq	2	8.4 gal	1.22	10.25	10.25	
Chemicals	Bladex 90 DF	2	1.1 lb	5.31	5.84	5.84	
	Lasso 4EC	2	1 qt	6.43	6.43	6.43	
	2,4-D Ester	5	0.5 pt	1.69	0.85	0.84	
	Dyfonate 3/4 yr	5	3.9975 lb	1.99	7.96	7.96	
	Furadan 1/4yr	6	2 lb	1.70	3.40	3.40	
Custom	Aerial Spray	6	1 ac	4.00	4.00	4.00	
	Truck	8	80 bu	0.12	9.60	9.60	
	Dryer 2/3	10	53.32 bu	0.10	5.33	5.33	
Rental	Anhy Applic	1	1 ac	1.50	1.50	1.50	
Subtotal						\$84.56	
Total Operating Costs excluding Interest & Unpaid Labor						\$99.01	
Interest on Oper. Capital \$99.01 @ 8.3% for 8 Months						5.48	
Unpaid Labor 1.31 Hours \$6.00 /hr						7.85	
Total Operating Costs						\$112.34	

Projected Returns

Corn 80 Bu @
 Crop Residue 2 AUM @

Total Returns

Net Return above Operating Costs

D6

Returns Above Operating Costs Budget Worksheet
Soybeans, Non-Irrigated
40 Bu Soybeans

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Disc w/Harrow	7.8 Ac/hr	0.16	0.13	0.71 D	0.34	0.53		1.58	
2 Spray in tandem	7.8 Ac/hr		0.13			0.09		0.09	
3 Disc w/Harrow	7.8 Ac/hr	0.16	0.13	0.71 D	0.34	0.53		1.58	
4 Plant	4.9 Ac/hr	0.24	0.20	0.89 D	0.25	1.38		2.52	
5 Row Crop Cult	5.1 Ac/hr	0.24	0.20	0.86 D	0.24	0.35		1.45	
6 Combine	3.8 Ac/hr	0.31	0.26	1.79 D	4.06	0.76		6.61	
7 Truck	Custom								
8 Auger	2500 Bu/hr	0.02	0.02	0.07 D	0.02	0.01		0.10	
Subtotal		1.13 Hrs		5.03	5.25	3.65		\$13.93	

Diesel 7.03 Gal @ \$0.65 \$4.57

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Soybeans	4	1	bag	14.43	14.43	\$14.43	
Chemicals	Pursuit Plus	2	2.5	pt	9.50	23.75	23.75	
Custom	Truck	7	40	bu	0.12	4.80	4.80	
Suhtotal							\$42.98	
Total Operating Costs excluding Interest & Unpaid Labor							\$56.91	
Interest on Oper. Capital			\$56.91 @	8.3%	for 8 Months		3.15	
Unpaid Labor			1.13	Hours	\$6.00	/hr	6.77	
Total Operating Costs							\$66.83	

Projected Returns

Soybeans

40 Bu

@

Total Returns

Net Return above Operating Costs

D7 Returns Above Operating Costs Budget Worksheet
Soybeans, Pivot Irrig., Elect., 281' Head
4 Acre-inches 50 Bu Soybeans

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Power	Repairs Impl			
1 Disc w/Harrow	7.8 Ac/hr	0.16	0.13	0.71 D	0.34	0.53		1.58	
2 Spray in tandem	7.8 Ac/hr		0.13			0.09		0.09	
3 Disc w/Harrow	7.8 Ac/hr	0.16	0.13	0.71 D	0.34	0.53		1.58	
4 Plant	4.9 Ac/hr	0.24	0.20	0.89 D	0.25	1.38		2.52	
5 Row Crop Cult	5.1 Ac/hr	0.24	0.20	0.86 D	0.24	0.35		1.45	
6 Irrig.	800 GPM	0.13	2.24	12.41 E	2.67			15.08	
7 Combine	3.8 Ac/hr	0.31	0.26	1.79 D	4.06	0.76		6.61	
8 Truck	Custom								
9 Auger	2500 Bu/hr	0.02	0.02	0.09 D	0.02	0.01		0.12	
Subtotal		1.26 Hrs		17.46	7.92	3.65		\$29.03	

Diesel 7.03 Gal @ \$0.65 \$4.57
Electricity 163.52 KWH @ \$0.075 \$12.26

Materials & Services		Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Soybeans	4	1 bag	14.43	14.43	\$14.43	
Chemicals	Pursuit Plus	2	2.5 pt	9.50	23.75	23.75	
Custom	Truck	8	50 hu	0.12	6.00	6.00	
Other	Rogue Beans	5	1 ac	5.00	5.00	5.00	
Subtotal						\$49.18	
Total Operating Costs excluding Interest & Unpaid Labor						\$78.21	
Interest on Oper. Capital			\$78.21 @ 8.3%	for 8 Months		4.33	
Unpaid Labor			1.26 Hours	\$6.00 /hr		7.57	
Total Operating Costs						\$90.11	

Projected Returns

Soybeans 50 Bu @

Total Returns

Net Return above Operating Costs

D8

Returns Above Operating Costs Budget Worksheet
 Oats, Non-Irrigated
 80 Bu Oats

Operation #	Description	Operation Rate	Hrs per Acre		Cost per Acre				Your Estimate
			Labor	Mach	Fuel & Lube	Repairs Power	Impl	Sub-Total	
1	Spread Fert.	Custom							
2	Disc w/Harrow	7.8 Ac/hr	0.16	0.13	0.71 D	0.34	0.53	1.58	
3	Drill	7.8 Ac/hr	0.16	0.13	0.56 D	0.16	0.95	1.67	
4	Windrow	Custom							
5	Combine	3.8 Ac/hr	0.31	0.26	1.79 D	4.06	0.79	6.64	
6	Truck	Custom							
7	Auger	2500 Bu/hr	0.04	0.03	0.14 D	0.04	0.02	0.20	
Subtotal			0.66 Hrs		3.20	4.60	2.29	\$10.09	

Diesel 4.45 Gal @ \$0.65 \$2.89

Materials & Services		Operation #	Units per Acre		Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Alfalfa	3	12	lb	3.44	41.28	\$41.28	
	Oats	3	2	bu	5.00	10.00	10.00	
Fertilizer	30-10-0	1	250	lb	0.10	25.00	25.00	
Custom	Spread Fert.	1	1	ac	3.25	3.25	3.25	
	Windrower	4	1	ac	7.50	7.50	7.50	
	Truck	6	80	bu	0.12	9.60	9.60	
Subtotal							\$96.63	
Total Operating Costs excluding Interest & Unpaid Labor							\$106.72	
Interest on Oper. Capital		\$106.72 @ 8.3% for 8 Months					5.91	
Unpaid Labor		0.66 Hours \$6.00 /hr					3.96	
Total Operating Costs							\$116.59	

Projected Returns

Oats	80 Bu	@	
Crop Residue	1 AUM	@	
Total Returns			
Net Return above Operating Costs			

D9

Returns Above Operating Costs Budget Worksheet
Oats With Spring Alfalfa Seeding
80 Bu Oats

		Hrs per Acre		Cost per Acre					
Operation #	Description	Operation Rate	Labor	Mach	Fuel & Lube	Repairs Power	Impl	Sub-Total	Your Estimate
1	Spread Fert.	Custom							
2	Disc w/Harrow	7.8 Ac/hr	0.16	0.13	0.71 D	0.34	0.53	1.58	
3	Drill	5.4 Ac/hr	0.23	0.19	0.81 D	0.23	0.95	1.99	
4	Windrow	Custom							
5	Combine	3.8 Ac/hr	0.31	0.26	1.79 D	4.06	0.76	6.61	
6	Truck	Custom							
7	Auger	2500 Bu/hr	0.04	0.03	0.14 D	0.04	0.02	0.20	
Subtotal			0.73 Hrs		3.45	4.67	2.26	\$10.38	
Diesel		4.81 Gal @ \$0.65	\$3.13						

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Alfalfa	3	12	lb	3.44	41.28	\$41.28	
	Oats	3	1.5	bu	5.00	7.50	7.50	
Fertilizer	18-46-0	1	175	lb	0.11	19.25	19.25	
	46-0-0	1	85	lb. N	0.23	19.55	19.55	
Custom	Spread Fert.	1	1	ac	3.50	3.50	3.50	
	Windrower	4	1	ac	7.50	7.50	7.50	
	Truck	6	80	bu	0.12	9.60	9.60	
Subtotal							\$108.18	
Total Operating Costs excluding Interest & Unpaid Labor							\$118.56	
Interest on Oper. Capital		\$118.56 @ 8.3% for 8 Months					6.56	
Unpaid Labor		0.73 Hours \$6.00 /hr					4.39	
Total Operating Costs							\$129.51	

Projected Returns

Oats	80 Bu	@	
Crop Residue	1 AUM	@	
Total Returns			
Net Return above Operating Costs			

D10

Returns Above Operating Costs Budget Worksheet
 Alfalfa Seeding Cost Share With Oats

				Hrs per Acre		Cost per Acre				
Operation #	Description	Operation Rate	Labor	Mach	Fuel & Lube	Repairs Power	Impl	Sub-Total	Your Estimate	
1	Spread Fert.	Custom								
2	Disc w/Harrow	7.8 Ac/hr	0.16	0.13	0.71 D	0.34	0.53	1.58		
3	Drill	5.4 Ac/hr	0.23	0.19	0.81 D	0.23	0.95	1.99		
Subtotal			0.38	Hrs	1.52	0.57	1.48	\$3.57		
Diesel		2.16 Gal @ \$0.65	\$1.40							
Materials & Services		Operation #	Units per Acre		Cost per Unit	Cost per Acre		Sub-Total	Your Estimate	
Seed	Alfalfa	3	12	lb	3.44	41.28		\$41.28		
Fertilizer	18-46-0	1	120	lb	0.11	13.20		13.20		
Custom	Spread Fert.	1	1	ac	3.25	3.25		3.25		
Subtotal								\$57.73		
Total Operating Costs excluding Interest & Unpaid Labor								\$61.30		
Interest on Oper. Capital			\$61.30 @ 8.3%		for 8 Months			3.39		
Unpaid Labor			0.38 Hours		\$6.00 /hr			2.30		
Total Operating Costs								\$66.99		

D11

Returns Above Operating Costs Budget Worksheet
Alfalfa Estab., Sandy Soils, Fall Seeding

Operation # Description		Operation Rate	Hrs per Acre		Cost per Acre				Your Estimate
			Labor	Mach	Fuel & Lube	Repairs Power Impl	Sub- Total		
1	Spread Fert.	Custom							
2	Disc w/Harrow	7.8 Ac/hr	0.16	0.13	0.71 D	0.34	0.53	1.58	
3	Disc w/Harrow	7.8 Ac/hr	0.16	0.13	0.71 D	0.34	0.53	1.58	
4	Drill	5.4 Ac/hr	0.23	0.19	0.81 D	0.23	0.95	1.99	
5	Roll	7 Ac/hr	0.17	0.14	0.62 D	0.18	0.24	1.04	
Subtotal			0.71 Hrs		2.85	1.09	2.25	\$6.19	
Diesel			4.02 Gal @ \$0.65		\$2.61				
Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate	
Seed	Alfalfa	4	12	lb	3.44	41.28	\$41.28		
Fertilizer	18-46-0	1	130	lb	0.11	14.30	14.30		
	Sulfur 90%	1	35	lb. S	0.15	5.25	5.25		
Custom	Spread Fert.	1	1	ac	3.25	3.25	3.25		
Subtotal							\$64.08		
Total Operating Costs excluding Interest & Unpaid Labor							\$70.27		
Interest on Oper. Capital			\$70.27 @ 8.3%		for 8 Months		3.89		
Unpaid Labor			0.71 Hours		\$6.00 /hr		4.25		
Total Operating Costs							\$78.41		

D12

Returns Above Operating Costs Budget Worksheet
 Alfalfa Hay, Large Round Baler
 3 Ton Hay

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Spread Fert.	Custom								
2 Spray 1/10yr	10.2 Ac/hr	0.12	0.10	0.43 D	0.12	0.09		0.64	
3 Windrow	5.7 Ac/hr	0.22	0.18	0.97 D	0.46	1.34		2.77	
4 Bale	6.3 Ton/hr	0.19	0.16	0.87 D	0.41	1.18		2.46	
5 Move Bales	9 Ac/hr	0.66	0.11	0.48 D	0.14	4.26		4.88	
6 Windrow	5.7 Ac/hr	0.22	0.18	0.97 D	0.46	1.34		2.77	
7 Bale	6.3 Ton/hr	0.19	0.16	0.87 D	0.41	1.18		2.46	
8 Move Bales	9 Ac/hr	0.66	0.11	0.48 D	0.14	4.26		4.88	
9 Windrow	5.7 Ac/hr	0.22	0.18	0.97 D	0.46	1.34		2.77	
10 Bale	6.3 Ton/hr	0.19	0.16	0.89 D	0.42	1.18		2.49	
11 Move Bales	9 Ac/hr	0.66	0.11	0.48 D	0.14	4.26		4.88	
Subtotal		3.32 Hrs		7.41	3.16	20.43		\$31.00	

Diesel 10.48 Gal @ \$0.65 \$6.81

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Fertilizer	18-46-0	1	65	lb	0.11	7.15	\$7.15	
Chemicals	Pounce 1/10 yr	2	0.6	oz	1.30	0.78	0.78	
Custom	Spread Fert.	1	1	ac	3.25	3.25	3.25	
Other	Twine	4	1.3	bales	0.40	0.52	0.52	
	Twine	7	1.3	bales	0.40	0.52	0.52	
	Twine	10	1.3	bales	0.40	0.52	0.52	
Subtotal							\$12.74	
Total Operating Costs excluding Interest & Unpaid Labor							\$43.74	
Interest on Oper. Capital			\$43.74 @	8.3%	for 8 Months		2.42	
Unpaid Labor			3.32	Hours	\$6.00 /hr		19.94	
Total Operating Costs							\$66.10	

Projected Returns

Hay	3	Ton	@	
Crop Residue	1	AUM	@	
Total Returns				
Net Return above Operating Costs				

D13

Returns Above Operating Costs Budget Worksheet
 Alfalfa Hay, Small Square
 3 Ton Alfalfa

		Hrs per Acre		Cost per Acre					
Operation # Description	Operation Rate			Fuel&	Repairs	Sub-	Your Estimate		
		Labor	Mach	Lube	Power	Impl		Total	
1 Spread Fert.	Custom								
2 Spray 1/10yr	10.2 Ac/hr	0.12	0.10	0.43 D	0.12	0.09	0.64		
3 Windrow	5.7 Ac/hr	0.22	0.18	0.97 D	0.46	1.34	2.77		
4 Bale	5.1 Ton/hr	0.23	0.19	0.85 D	0.24	0.72	1.81		
5 Move Bales	Custom								
6 Windrow	5.7 Ac/hr	0.22	0.18	0.97 D	0.46	1.34	2.77		
7 Bale	5.1 Ton/hr	0.23	0.19	0.85 D	0.24	0.72	1.81		
8 Move Bales	Custom								
9 Windrow	5.7 Ac/hr	0.22	0.18	0.97 D	0.46	1.34	2.77		
10 Bale	5.1 Ton/hr	0.24	0.20	0.87 D	0.25	0.75	1.87		
11 Move Bales	Custom								
Subtotal		1.46 Hrs		5.91	2.23	6.30	\$14.44		

Diesel 8.31 Gal @ \$0.65 \$5.40

Materials & Services		Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Fertilizer	18-46-0	1	65 lh	0.11	7.15	\$7.15	
Chemicals	Pounce 1/10 yr	2	0.6 oz	1.30	0.78	0.78	
Custom	Spread Fert.	1	1 ac	3.25	3.25	3.25	
	Load & Stack	5	1 stack	9.71	9.71	9.71	
	Load & Stack	8	1 stack	9.71	9.71	9.71	
	Load & Stack	11	1 stack	9.71	9.71	9.71	
Other	Wire square	4	75 bale	0.17	12.75	12.75	
	Wire square	7	75 bale	0.17	12.75	12.75	
	Wire square	10	75 bale	0.17	12.75	12.75	
Subtotal						\$78.56	
Total Operating Costs excluding Interest & Unpaid Labor						\$93.00	
Interest on Oper. Capital \$93.00 @ 8.3% for 8 Months						5.15	
Unpaid Labor 1.46 Hours \$6.00 /hr						8.78	
Total Operating Costs						\$106.93	

Projected Returns

Alfalfa

3 Ton

@

Total Returns

Net Return above Operating Costs

DESCRIPTION OF THE CROP BUDGETS FOR EAST CENTRAL NEBRASKA

The farms representing this area of Nebraska are considered to have flat to rolling soils of Sharpsburg-Marshall-Shelby types with Loess parent material. Both dryland and center pivot irrigated budgets are provided for crops produced in this region. Areas of the Platte Valley and the west part of the area may more resemble the production areas of central Nebraska.

Items of machinery used are listed below along with use levels and cost assumptions. Tooling and cost assumptions for each operation are also listed. A summary table providing total cost estimates precedes the operating cost worksheets.

EC 1994 Machinery List -- East Central Nebraska						
Mcode	Machine	Price	Annual Use	Years to Trade	Trade in	Repairs
Power Units						
3	Elec Pivot 281' head	74,700	900 hr	20	0	1.19/hr
16	Tractor 120 hp diesel cab	61,289	500 hr	10	18,103	3.06/hr
17	Tractor 150 hp diesel cab	65,573	600 hr	10	19,370	3.93/hr
84	Combine 185 hp	90,000	200 hr	10	16,977	15.44/hr
Implements						
30	Tandem Disc 20'	14,485	1,000 ac	15	1,390	.52/ac
36	Field Cultivator 24'	10,486	750 ac	15	1,007	.22/ac
38	Row Crop Cultivator 6 row x 30"	3,803	750 ac	10	672	.26/ac
58	Grain Drill 16' hoe 2x8 10" spacing	8,508	250 ac	10	1,505	.36/ac
66	Planter 6 row x 30"	15,640	500 ac	10	2,765	1.76/ac
73	Anhydrous Applicator 21'	8,141	600 ac	20	424	.57/ac
74	Sprayer 300 gallon 15' pull-type	3,100	600 ac	20	151	.19/ac
77	Sprayer 2-200 gallon 15' saddle tanks	2,600	300 ac	20	127	.13/ac
87	6 row corn head	33,562	760 ac	10	6,331	1.50/ac
89	15' grain head	17,251	760 ac	10	3,255	.78/ac
95	Swather/Conditioner 14' pull-type	21,042	400 ac	15	2,155	.99/ac
101	Large Round Baler	19,182	1,000 ton	10	3,166	1.02/ton
103	Bale Wagon & Stacker 144 bales/loan	22,150	200 ac	15	2,134	3.53/ac
111	Grain Auger 8" X 66' PTO	3,216	150 bu000	20	178	.21/bu000
115	Bean Bar 15'	4,200	200 ac	20	234	.09/ac

1994 Operations List* East Central Nebraska

EC Operation	Power Code	Imp Code	Energy/hr		% Lube
All Irrig.	3		73.00	Kwh Elec	1.3%
Apply Anhy	17	73	7.70	Gal Diesel	10%
Apply Anhy	17	Rent	7.70	Gal Diesel	10%
Auger	16	111	6.10	Gal Diesel	10%
Bale	16	101	6.10	Gal Diesel	10%
Bean Bar	16	115	6.10	Gal Diesel	10%
Combine	84	87	9.50	Gal Diesel	10%
Combine	84	89	9.50	Gal Diesel	10%
Cult	16	38	6.10	Gal Diesel	10%
Disc w/harrow	17	30	7.70	Gal Diesel	10%
Drill	16	58	6.10	Gal Diesel	10%
Dry	Custom				
Field Cult	17	36	7.70	Gal Diesel	10%
Field Stacker	Custom				
Move Bales	17		7.70	Gal Diesel	10%
Plant	16	66	6.10	Gal Diesel	10%
Spray	Custom				
Spray in tandem		77			
Sprayer	17	74	7.70	Gal Diesel	10%
Spread Fert.	17	Rent	7.70	Gal Diesel	10%
Stack Bales	16	103	6.10	Gal Diesel	10%
Truck	Custom				
Windrow	16	95	6.10	Gal Diesel	10%

*See previous page for power unit that corresponds to power code and implement code. The % lube is lube charge as a percentage of the fuel cost.

Budgeted Production Costs Summary, East Central Nebraska 1994

Budget Crop Description	E2 Corn Grain Pivot Cont.	E3 Soybeans Irrig Pivot	E4 Corn Grain Dryland	E5 Corn Grain No-till	E6 Grain Sorghum Dryland	E7 Soybeans Dryland	E8 Soybeans ff Corn Reduced Till	E9 Wheat	E10 Alfalfa Estab Fall	E11 Alfalfa Estab Spring	E12 Alfalfa Hay Large Round	E13 Alfalfa Hay Field Stacker	E14 Oats Dryland
Yield	145.0 Bu	50.0 Bu	100.0 Bu	100.0 Bu	80.0 Bu	40.0 Bu	40.0 Bu	45.0 Bu		1.5 Ton	3.5 Ton	3.5 Ton	70.0 Bu
Mgt Fee/unit	\$0.10	\$0.30	\$0.10	\$0.10	\$0.10	\$0.30	\$0.30	\$0.15	\$2.00	\$2.00	\$2.00	\$2.00	\$0.08
Land Invest.	\$1,100	\$1,100	\$920	\$920	\$920	\$920	\$920	\$920	\$920	\$920	\$920	\$920	\$920
Unimp.	798	798	920	920	920	920	920	920	920	920	920	920	920
Irrig	302	302											
Mach Invest	\$223.08	\$200.43	\$203.14	\$172.29	\$189.54	\$200.43	\$180.33	\$182.96	\$84.56	\$218.42	\$288.80	\$126.34	\$172.12
Op Cost/ac	\$196.30	\$93.24	\$113.05	\$103.31	\$56.95	\$66.88	\$71.63	\$58.11	\$62.62	\$98.83	\$48.97	\$81.27	\$62.93
Overhead	\$9.82	\$4.66	\$5.65	\$5.17	\$2.85	\$3.34	\$3.58	\$2.91	\$3.13	\$4.94	\$2.45	\$4.06	\$3.15
Unpaid Mgt	\$14.50	\$15.00	\$10.00	\$10.00	\$8.00	\$12.00	\$12.00	\$6.75		\$3.00	\$7.00	\$7.00	\$5.60
RE Taxes	\$15.00	\$15.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00	\$12.00		\$12.00	\$12.00	\$12.00	\$12.00
Land Interest	46.28	46.28	53.36	53.36	53.36	53.36	53.36	53.36		53.36	53.36	53.36	53.36
Irrig Interest	20.84	20.84											
Irrig Deprec	30.00	30.00											
Land Subtotal	\$112.12	\$112.12	\$65.36	\$65.36	\$65.36	\$65.36	\$65.36	\$65.36		\$65.36	\$65.36	\$65.36	\$65.36
Mach. Interest	\$15.39	\$13.83	\$14.02	\$11.89	\$13.08	\$13.83	\$12.44	\$12.62	\$5.83	\$15.07	\$19.93	\$8.72	\$11.88
Mach. Deprec	27.90	24.71	25.65	22.27	23.81	24.71	22.60	22.94	9.84	24.92	32.75	13.72	21.87
Mach. Subtotal	\$43.29	\$38.54	\$39.67	\$34.16	\$36.89	\$38.54	\$35.04	\$35.56	\$15.67	\$39.99	\$52.68	\$22.44	\$33.75
Total Owner Cost	\$155.41	\$150.66	\$105.03	\$99.52	\$102.25	\$103.90	\$100.40	\$100.92	\$15.67	\$105.35	\$118.04	\$87.80	\$99.11
Etab Costs											\$20.36	\$20.36	
Total Cost/ac	\$376.03	\$263.56	\$233.73	\$217.99	\$170.05	\$186.12	\$187.61	\$168.69	\$81.43	\$212.12	\$196.81	\$200.49	\$170.78
Total Cost/unit	\$2.59	\$5.27	\$2.34	\$2.18	\$2.13	\$4.65	\$4.69	\$3.75		\$141.41	\$56.23	\$57.28	\$2.44

E2 Returns Above Operating Costs Budget Worksheet
 Cont. Corn, Pivot Irrig, Elec, 281' Head
 10 Acre-inches 145 Bu Corn

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Power	Repairs Impl			
1 Disc w/harrow	9.62 Ac/hr	0.12	0.10	0.57 D	0.41	0.52		1.50	
2 Apply Anhy	6.22 Ac/hr	0.19	0.16	0.89 D	0.63			1.52	
3 Field Cult	8.96 Ac/hr	0.13	0.11	0.61 D	0.44	0.22		1.27	
4 Plant	4.9 Ac/hr	0.24	0.20	0.89 D	0.62	1.76		3.27	
5 Cult	5.29 Ac/hr	0.23	0.19	0.82 D	0.58	0.26		1.66	
6 Cult	5.29 Ac/hr	0.23	0.19	0.82 D	0.58	0.26		1.66	
7 All Irrig.	800 GPM	0.34	5.61	31.02 E	6.68			37.70	
8 Spray	Custom								
9 Combine	3.44 Ac/hr	0.35	0.29	1.97 D	4.49	1.5		7.96	
10 Truck	Custom								
11 Auger	2500 Bu/hr	0.07	0.06	0.25 D	0.18	0.03		0.46	
12 Dry	Custom								
Subtotal		1.90 Hrs		37.84	14.61	4.55		\$57.00	

Diesel 9.5I Gal @ \$0.65 \$6.18
 Electricity 409.53 KWH @ \$0.075 \$30.71

Materials & Services		Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	4	0.33 bag	79.23	26.15	\$26.15	
Fertilizer	Anhy N	2	140 lb. N	0.12	16.80	16.80	
	10-34-0	4	6 gal	1.22	7.32	7.32	
Chemicals	Bicep	4	1.5 qt	8.13	12.20	12.20	
	Counter 15G	4	8.9 lb	1.64	14.60	14.60	
	Furadan 1/3	8	2.211 lb	1.70	3.76	3.76	
Custom	Aerial spray	8	1 ac	4.00	4.00	4.00	
	Truck	10	145 bu	0.12	17.40	17.40	
	Dryer	12	145 bu	0.10	14.50	14.50	
Rental	Anhy Applic	2	1 ac	1.50	1.50	1.50	
Subtotal						\$118.22	
Total Operating Costs excluding Interest & Unpaid Labor						\$175.22	
Interest on Oper. Capital \$175.22 @ 8.3% for 8 Months						9.70	
Unpaid Labor 1.90 Hours \$6.00 /hr						11.38	
Total Operating Costs						\$196.30	

Projected Returns

Corn	145 Bu	@	
Crop Residue	3 AUM	@	
Total Returns			
Net Return above Operating Costs			

E3

Returns Above Operating Costs Budget Worksheet
Soybeans, Pivot Irrig, Elect, 281' Head
6 Acre-inches 50 Bu Soybeans

Cost per Acre

Operation # Description	Operation Rate	Hrs per Acre		Fuel & Repairs		Sub- Total	Your Estimate
		Labor	Mach	Lube	Power Impl		
1 Disc w/harrow	9.62 Ac/hr	0.12	0.10	0.57 D	0.41	0.52	1.50
2 Spray in tandem	9.62 Ac/hr		0.10			0.13	0.13
3 Field Cult	8.96 Ac/hr	0.13	0.11	0.61 D	0.44	0.22	1.27
4 Plant	4.9 Ac/hr	0.24	0.20	0.89 D	0.62	1.76	3.27
5 Cult	5.29 Ac/hr	0.23	0.19	0.82 D	0.58	0.26	1.66
6 Bean Bar	7.88 Ac/hr	0.16	0.13	0.55 D	0.39	0.09	1.03
7 All Irrig.	800 GPM	0.20	3.37	18.61 E	4.01		22.62
8 Combine	3.44 Ac/hr	0.35	0.29	1.97 D	4.49	0.78	7.24
9 Truck	Custom						
Subtotal		1.43 Hrs		24.02	10.94	3.76	\$38.72

Diesel 7.54 Gal @ \$0.65 \$4.90
Electricity 246.01 KWH @ \$0.075 \$18.45

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Soybeans	4	1	bag	14.43	14.43	\$14.43	
Chemicals	Sencor DF	2	0.5	lb	25.96	12.98	12.98	
	Treflan	2	1.5	pt	4.14	6.21	6.21	
	Roundup	6	0.33	pt	5.77	1.90	1.90	
Custom	Truck	9	50	bu	0.12	6.00	6.00	
Subtotal							\$41.52	
Total Operating Costs excluding Interest & Unpaid Labor							\$80.24	
Interest on Oper. Capital			\$80.24 @ 8.3% for 8 Months				4.44	
Unpaid Labor			1.43 Hours \$6.00 /hr				8.56	
Total Operating Costs							\$93.24	

Projected Returns

Soybeans

50 Bu

@

Total Returns

Net Return above Operating Costs

E4

Returns Above Operating Costs Budget Worksheet
 Cont. Corn, Dryland
 100 Bu Corn

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Disc w/harrow	9.62 Ac/hr	0.12	0.10	0.57 D	0.41	0.52		1.50	
2 Apply Anhy	6.22 Ac/hr	0.19	0.16	0.89 D	0.63			1.52	
3 Field Cult	8.96 Ac/hr	0.13	0.11	0.61 D	0.44	0.22		1.27	
4 Plant	4.9 Ac/hr	0.24	0.20	0.89 D	0.62	1.76		3.27	
5 Cult	5.29 Ac/hr	0.23	0.19	0.82 D	0.58	0.26		1.66	
6 Spray	Custom								
7 Combine	3.44 Ac/hr	0.35	0.29	1.97 D	4.49	1.5		7.96	
8 Truck	Custom								
9 Auger	2500 Bu/hr	0.05	0.04	0.17 D	0.12	0.02		0.31	
10 Dry	Custom								
Subtotal		1.31 Hrs		5.92	7.29	4.28		\$17.49	

Diesel 8.23 Gal @ \$0.65 \$5.35

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	4	0.25 bag		79.23	19.81	\$19.81	
Fertilizer	Anhy N	2	100 lb. N		0.12	12.00	12.00	
Chemicals	Atrazine 90 DF	4	1.5 lb		3.02	4.53	4.53	
	Counter 15G	4	8.9 lb		1.64	14.60	14.60	
	Furadan 1/3 Yr.	6	2.211 lb		1.70	3.76	3.76	
Custom	Aerial Spray	6	1 ac		4.00	4.00	4.00	
	Truck	8	100 bu		0.12	12.00	12.00	
	Dryer	10	100 bu		0.10	10.00	10.00	
Rental	Anhy Applic	2	1 ac		1.50	1.50	1.50	
Subtotal							\$82.19	
Total Operating Costs excluding Interest & Unpaid Labor							\$99.68	
Interest on Oper. Capital			\$99.68 @ 8.3%	for 8 Months			5.52	
Unpaid Labor			1.31 Hours	\$6.00 /hr			7.85	
Total Operating Costs							\$113.05	

Projected Returns

Corn 100 Bu @
 Crop Residue 2.5 AUM @

Total Returns

Net Return above Operating Costs

E5 Returns Above Operating Costs Budget Worksheet
 No-till Corn in Soybean Residue
 10 Acre-inches 100 Bu Corn

Operation #	Description	Operation Rate	Hrs per Acre		Cost per Acre				Your Estimate
			Labor	Mach	Fuel & Lube	Repairs Power	Impl	Sub-Total	
1	Apply Anhy	6.22 Ac/hr	0.19	0.16	0.89 D	0.63		1.52	
2	Plant	4.9 Ac/hr	0.24	0.20	0.89 D	0.62	1.76	3.27	
3	Cult	5.29 Ac/hr	0.23	0.19	0.82 D	0.58	0.26	1.66	
4	Spray	Custom							
5	Combine	3.44 Ac/hr	0.35	0.29	1.97 D	4.49	1.5	7.96	
6	Truck	Custom							
7	Auger	2500 Bu/hr	0.05	0.04	0.17 D	0.12	0.02	0.31	
8	Dry	Custom							
Subtotal			1.06 Hrs		4.74	6.44	3.54	\$14.72	
Diesel			6.61 Gal @ \$0.65		\$4.30				

Materials & Services		Operation #	Units per Acre	Cost per Unit	Cost per Acre	Sub-Total	Your Estimate
Seed	Corn	2	0.25 bag	79.23	19.81	\$19.81	
Fertilizer	Anhy N	1	60 lb. N	0.12	7.20	7.20	
Chemicals	Atrazine 90 DF	2	2 lb	3.02	6.04	6.04	
	Lasso 4EC	2	2 qt	6.43	12.86	12.86	
	Furadan 1/3 Yr.	4	2.211 lb	1.70	3.76	3.76	
Custom	Aerial Spray	4	1 ac	4.00	4.00	4.00	
	Truck	6	100 bu	0.12	12.00	12.00	
	Dryer	8	100 bu	0.10	10.00	10.00	
Rental	Anhy Applic	1	1 ac	1.50	1.50	1.50	
Subtotal						\$77.17	
Total Operating Costs excluding Interest & Unpaid Labor						\$91.89	
Interest on Oper. Capital \$91.89 @ 8.3% for 8 Months						5.08	
Unpaid Labor 1.06 Hours \$6.00 /hr						6.34	
Total Operating Costs						\$103.31	

Projected Returns

Corn	100 Bu	@	
Crop Residue	2.5 AUM	@	
Total Returns			
Net Return above Operating Costs			

E6

Returns Above Operating Costs Budget Worksheet
 Grain Sorghum, Dryland
 80 Bu Grain Sorghum

Cost per Acre

Operation # Description	Operation Rate	Hrs per Acre		Fuel & Repairs			Sub- Total	Your Estimate
		Labor	Mach	Lube	Power	Impl		
1 Disc w/harrow	9.62 Ac/hr	0.12	0.10	0.57 D	0.41	0.52	1.50	
2 Apply Anhy	6.22 Ac/hr	0.19	0.16	0.89 D	0.63		1.52	
3 Field Cult	8.96 Ac/hr	0.13	0.11	0.61 D	0.44	0.22	1.27	
4 Plant	4.9 Ac/hr	0.24	0.20	0.89 D	0.62	1.76	3.27	
5 Cult	5.29 Ac/hr	0.23	0.19	0.82 D	0.58	0.26	1.66	
6 Combine	3.44 Ac/hr	0.35	0.29	1.97 D	4.49	0.78	7.24	
7 Truck	Custom							
8 Auger	2500 Bu/hr	0.04	0.03	0.14 D	0.10	0.02	0.26	
Subtotal		1.30 Hrs		5.89	7.27	3.56	\$16.72	
Diesel	8.17 Gal @ \$0.65	\$5.31						

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Sorghum	4	5	lb	0.87	4.35	\$4.35	
Fertilizer	Anhy N	2	60	lb. N	0.12	7.20	7.20	
Chemicals	Lariat	4	1.5	qt	4.81	7.22	7.22	
Custom	Truck	7	80	bu	0.12	9.60	9.60	
Rental	Anhy Applic	2	1	ac	1.50	1.50	1.50	
Subtotal							\$29.87	
Total Operating Costs excluding Interest & Unpaid Labor							\$46.59	
Interest on Oper. Capital			\$46.59 @ 8.3%		for 8 Months		2.58	
Unpaid Labor			1.30 Hours	\$6.00 /hr			7.78	
Total Operating Costs							\$56.95	
Projected Returns								
Grain Sorghum			80	Bu	@			
Crop Residue			2	AUM	@			
Total Returns								
Net Return above Operating Costs								

E7

Returns Above Operating Costs Budget Worksheet
Soybeans, Dryland

40 Bu Soybeans

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Disc w/harrow	9.62 Ac/hr	0.12	0.10	0.57 D	0.41	0.52		1.50	
2 Spray in tandem	9.62 Ac/hr		0.10			0.13		0.13	
3 Field Cult	8.96 Ac/hr	0.13	0.11	0.61 D	0.44	0.22		1.27	
4 Plant	4.9 Ac/hr	0.24	0.20	0.89 D	0.62	1.76		3.27	
5 Cult	5.29 Ac/hr	0.23	0.19	0.82 D	0.58	0.26		1.66	
6 Bean Bar	7.88 Ac/hr	0.16	0.13	0.55 D	0.39	0.09		1.03	
7 Combine	3.44 Ac/hr	0.35	0.29	1.97 D	4.49	0.78		7.24	
8 Truck	Custom								
Subtotal		1.22 Hrs		5.41	6.93	3.76		\$16.10	

Diesel 7.54 Gal @ \$0.65 \$4.90

Materials & Services		Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Soybeans	4	1 bag	14.43	14.43	\$14.43	
Chemicals	Sencor DF	2	0.5 lb	25.96	12.98	12.98	
	Treflan	2	1.5 pt	4.14	6.21	6.21	
	Roundup	6	0.33 pt	5.77	1.90	1.90	
Custom	Truck	8	40 bu	0.12	4.80	4.80	
Subtotal						\$40.32	
Total Operating Costs excluding Interest & Unpaid Labor						\$56.42	
Interest on Oper. Capital			\$56.42 @ 8.3%	for 8 Months		3.12	
Unpaid Labor			1.22 Hours	\$6.00 /hr		7.34	
Total Operating Costs						\$66.88	

Projected Returns

Soybeans

40 Bu

@

Total Returns

Net Return above Operating Costs

E8

Returns Above Operating Costs Budget Worksheet
Soybeans following Corn, Reduced Till
40 Bu Soybeans

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre					Your Estimate
		Labor	Mach	Fuel & Lube	Repairs		Sub- Total		
					Power	Impl			
1 Disc w/harrow	9.62 Ac/hr	0.12	0.10	0.57 D	0.41	0.52	1.50		
2 Plant	4.9 Ac/hr	0.24	0.20	0.89 D	0.62	1.76	3.27		
3 Cult	5.29 Ac/hr	0.23	0.19	0.82 D	0.58	0.26	1.66		
4 Bean Bar	7.88 Ac/hr	0.16	0.13	0.55 D	0.39	0.09	1.03		
5 Combine	3.44 Ac/hr	0.35	0.29	1.97 D	4.49	0.78	7.24		
6 Truck	Custom								
Subtotal		1.09 Hrs		4.80	6.49	3.41	\$14.70		
Diesel	6.70 Gal @ \$0.65	\$4.35							

Materials & Services		Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Soybeans	2	1 bag	14.43	14.43	\$14.43	
Chemicals	Lasso 4EC	2	2 qt	6.43	12.86	12.86	
	Sencor DF	2	0.5 lb	25.96	12.98	12.98	
	Roundup	4	0.33 pt	5.77	1.90	1.90	
Custom	Truck	6	40 bu	0.12	4.80	4.80	
Subtotal						\$46.97	
Total Operating Costs excluding Interest & Unpaid Labor						\$61.67	
Interest on Oper. Capital		\$61.67 @ 8.3% for 8 Months				3.41	
Unpaid Labor		1.09 Hours \$6.00 /hr				6.55	
Total Operating Costs						\$71.63	

Projected Returns

Soybeans 40 Bu @

Total Returns

Net Return above Operating Costs

E9

Returns Above Operating Costs Budget Worksheet

Wheat

45 Bu Wheat

Operation # Description		Operation Rate	Hrs per Acre		Cost per Acre				Your Estimate
			Labor	Mach	Fuel& Lube	Repairs Power Impl	Sub- Total		
1	Disc w/harrow	9.62 Ac/hr	0.12	0.10	0.57 D	0.41	0.52	1.50	
2	Apply Anhy	6.22 Ac/hr	0.19	0.16	0.89 D	0.63	0.57	2.09	
3	Disc w/harrow	9.62 Ac/hr	0.12	0.10	0.57 D	0.41	0.52	1.50	
4	Drill	3.52 Ac/hr	0.34	0.28	1.24 D	0.87	0.36	2.47	
5	Combine	3.44 Ac/hr	0.35	0.29	1.97 D	4.49	0.78	7.24	
6	Truck	Custom							
Subtotal			1.12 Hrs		5.24	6.81	2.75	\$14.80	

Diesel 7.24 Gal @ \$0.65 \$4.70

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Wheat	4	75	lb	0.17	12.75	\$12.75	
Fertilizer	Anhy N	2	50	lb. N	0.12	6.00	6.00	
	10-34-0	2	8	gal	1.22	9.76	9.76	
Custom	Truck	6	45	bu	0.12	5.40	5.40	
Subtotal							\$33.91	
Total Operating Costs excluding Interest & Unpaid Labor							\$48.71	
Interest on Oper. Capital			\$48.71 @ 8.3% for 8 Months			2.70		
Unpaid Labor			1.12 Hours \$6.00 /hr			6.70		
Total Operating Costs							\$58.11	

Projected Returns

Wheat

45 Bu

@

Total Returns

Net Return above Operating Costs

E10

Returns Above Operating Costs Budget Worksheet
 Alfalfa Establishment, fall seeded

Operation # Description		Operation Rate	Hrs per Acre		Cost per Acre				Your Estimate
			Labor	Mach	Fuel & Lube	Repairs		Sub- Total	
						Power	Impl		
1	Disc w/harrow	9.62 Ac/hr	0.12	0.10	0.57	D 0.41	0.52	1.50	
2	Spread Fert.	6.22 Ac/hr	0.19	0.16	0.89	D 0.63		1.52	
3	Disc w/harrow	9.62 Ac/hr	0.12	0.10	0.57	D 0.41	0.52	1.50	
4	Drill	3.52 Ac/hr	0.34	0.28	1.24	D 0.87	0.36	2.47	
Subtotal			0.77 Hrs		3.27	2.32	1.40	\$6.99	
Diesel		4.48 Gal @ \$0.65 \$2.91							
Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate	
Seed	Alfalfa	4	12	lb	3.44	41.28	\$41.28		
Fertilizer	0-46-0	2	30	lb.P20	0.19	5.70	5.70		
Rental	Spread Fert.	2	1	ac	1.00	1.00	1.00		
Subtotal							\$47.98		
Total Operating Costs excluding Interest & Unpaid Labor							\$54.97		
Interest on Oper. Capital			\$54.97 @ 8.3%		for 8 Months		3.04		
Unpaid Labor			0.77 Hours		\$6.00 /hr		4.61		
Total Operating Costs							\$62.62		

E11

Returns Above Operating Costs Budget Worksheet
 Alfalfa Establishment, spring seeded w/herbicide
 1.5 Ton Alfalfa

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Spread Fert.	16.04 Ac/hr	0.07	0.06	0.34 D	0.25			0.59	
2 Sprayer	9.85 Ac/hr	0.12	0.10	0.56 D	0.40	0.19		1.15	
3 Disc w/harrow	9.62 Ac/hr	0.12	0.10	0.57 D	0.41	0.52		1.50	
4 Field Cult	8.96 Ac/hr	0.13	0.11	0.61 D	0.44	0.22		1.27	
5 Drill	3.93 Ac/hr	0.30	0.25	1.11 D	0.78	0.36		2.25	
6 Windrow	3.6 Ac/hr	0.34	0.28	1.21 D	0.85	0.99		3.05	
7 Bale	2.52 Ton/hr	0.36	0.30	1.30 D	0.91	0.77		2.98	
8 Move Bales	10 Ac/hr	0.12	0.10	0.55 D	0.39			0.94	
9 Windrow	3.6 Ac/hr	0.34	0.28	1.21 D	0.85	0.99		3.05	
10 Bale	2.52 Ton/hr	0.36	0.30	1.30 D	0.91	0.77		2.98	
11 Move Bales	10 Ac/hr	0.12	0.10	0.55 D	0.39			0.94	
Subtotal		2.38 Hrs		9.31	6.58	4.81		\$20.70	

Diesel 12.99 Gal @ \$0.65 \$8.44

Materials & Services		Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Alfalfa	5	12 lb	3.44	41.28	\$41.28	
Fertilizer	0-46-0	1	30 lb.P20	0.19	5.70	5.70	
Chemicals	Eptam 7E	2	3 pt	3.42	10.26	10.26	
Rental	Spread Fert.	1	1 ac	1.00	1.00	1.00	
Other	Twine rd bale	7	1 bales	0.40	0.40	0.40	
	Twine rd bale	10	2 bales	0.40	0.80	0.80	
Subtotal						\$59.44	
Total Operating Costs excluding Interest & Unpaid Labor						\$80.14	
Interest on Oper. Capital			\$80.14 @ 8.3%	for 8 Months		4.43	
Unpaid Labor			2.38 Hours	\$6.00 /hr		14.26	
Total Operating Costs						\$98.83	

Projected Returns

Alfalfa

1.5 Ton

@

Total Returns

Net Return above Operating Costs

E12

Returns Above Operating Costs Budget Worksheet
 Alfalfa Hay, Large Round Bales
 3.5 Ton Hay

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Spread Fert.	16.04 Ac/hr	0.07	0.06	0.34 D	0.25			0.59	
2 Windrow	3.6 Ac/hr	0.34	0.28	1.21 D	0.85	0.99		3.05	
3 Bale	3.92 Ton/hr	0.35	0.29	1.29 D	0.90	1.16		3.35	
4 Move Bales	10 Ac/hr	0.12	0.10	0.55 D	0.39			0.94	
5 Windrow	3.6 Ac/hr	0.34	0.28	1.21 D	0.85	0.99		3.05	
6 Bale	3.92 Ton/hr	0.35	0.29	1.29 D	0.90	1.16		3.35	
7 Move Bales	10 Ac/hr	0.12	0.10	0.55 D	0.39			0.94	
8 Windrow	3.6 Ac/hr	0.34	0.28	1.21 D	0.85	0.99		3.05	
9 Bale	3.92 Ton/hr	0.36	0.30	1.32 D	0.93	1.2		3.45	
10 Move Bales	10 Ac/hr	0.12	0.10	0.55 D	0.39			0.94	
Subtotal		2.50 Hrs		9.52	6.70	6.49		\$22.71	

Diesel 13.26 Gal @ \$0.65 \$8.62

Materials & Services		Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Fertilizer	0-46-0	1	30 1b.P20	0.19	5.70	\$5.70	
Rental	Spread Fert.	1	1 ac	1.00	1.00	1.00	
Other	Twine rd bale	3	3 bales	0.40	1.20	1.20	
	Twine rd bale	6	2 bales	0.40	0.80	0.80	
	Twine rd bale	9	2 bales	0.40	0.80	0.80	
Subtotal						\$9.50	
Total Operating Costs excluding Interest & Unpaid Labor						\$32.21	
Interest on Oper: Capital		\$32.21 @ 8.3% for 8 Months				1.78	
Unpaid Labor		2.50 Hours \$6.00 /hr				14.98	
Total Operating Costs						\$48.97	
Projected Returns							
Hay			3.5 Ton	@			
Total Returns							
Net Return above Operating Costs							

E13

Returns Above Operating Costs Budget Worksheet
 Alfalfa Hay, Field Stacker
 3.5 Ton Hay

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Spread Fert.	16.04 Ac/hr	0.07	0.06	0.34 D	0.25			0.59	
2 Windrow	6.82 Ac/hr	0.18	0.15	0.64 D	0.45	0.99		2.08	
3 Field Stacker	Custom								
4 Windrow	6.82 Ac/hr	0.18	0.15	0.64 D	0.45	0.99		2.08	
5 Field Stacker	Custom								
6 Windrow	6.82 Ac/hr	0.18	0.15	0.64 D	0.45	0.99		2.08	
7 Field Stacker	Custom								
8 Move	Custom								
Subtotal		0.61 Hrs		2.26	1.60	2.97		\$6.83	
Diesel	3.21 Gal @ \$0.65		\$2.08						

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Fertilizer	0-46-0	1	30	lb.P20	0.19	5.70	\$5.70	
Custom	Field Stack	3	1	stack	10.00	10.00	10.00	
	Field Stack	5	1	stack	10.00	10.00	10.00	
	Field Stack	7	1	stack	10.00	10.00	10.00	
	Stack Mover	8	3	stack	10.00	30.00	30.00	
Rental	Spread Fert.	1	1	ac	1.00	1.00	1.00	
Subtotal							\$66.70	
Total Operating Costs excluding Interest & Unpaid Labor							\$73.53	
Interest on Oper. Capital			\$73.53	@ 8.3%	for 8 Months		4.07	
Unpaid Labor			0.61	Hours	\$6.00 /hr		3.67	
Total Operating Costs							\$81.27	
Projected Returns								
Hay			3.5	Ton	@			
Total Returns								
Net Return above Operating Costs								

E14

Returns Above Operating Costs Budget Worksheet
Oats, Dryland

70 Bu Oats

		Cost per Acre							
Operation # Description	Operation Rate	Hrs per Acre					Sub- Total	Your Estimate	
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Disc w/harrow	9.62 Ac/hr	0.12	0.10	0.57 D	0.41	0.52	1.50		
2 Spread Fert.	16.04 Ac/hr	0.07	0.06	0.34 D	0.25		0.59		
3 Field Cult	8.96 Ac/hr	0.13	0.11	0.61 D	0.44	0.22	1.27		
4 Drill	3.52 Ac/hr	0.34	0.28	1.24 D	0.87	0.36	2.47		
5 Combine	3.44 Ac/hr	0.35	0.29	1.97 D	4.49	0.78	7.24		
6 Truck	Custom								
7 Auger	2500 Bu/hr	0.04	0.03	0.12 D	0.09	0.02	0.23		
Subtotal		1.04	Hrs	4.85	6.55	1.90	\$13.30		

Diesel 6.73 Gal @ \$0.65 \$4.37

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Oats	4	2.3	bu	5.00	11.50	\$11.50	
Fertilizer	0-46-0	2	30	lb.P20	0.19	5.70	5.70	
	46-0-0	2	60	lb. N	0.23	13.80	13.80	
Custom	Truck	6	70	bu	0.12	8.40	8.40	
Rental	Spread Fert.	2	1	ac	1.00	1.00	1.00	
Subtotal							\$40.40	
Total Operating Costs excluding Interest & Unpaid Labor							\$53.70	
Interest on Oper. Capital			\$53.70 @ 8.3% for 8 Months				2.97	
Unpaid Labor			1.04 Hours \$6.00 /hr				6.26	
Total Operating Costs							\$62.93	

Projected Returns

Oats 70 Bu @

Total Returns

Net Return above Operating Costs

DESCRIPTION OF THE CROP BUDGETS FOR SOUTHEAST NEBRASKA

The farms representing this area of Nebraska are flat to rolling hills of Loess parent materials consisting of Crete, Wymore, Sharpsburg, Marshall and Pawnee soil associations.

Items of machinery used are listed below along with use levels and cost assumptions. Tooling and cost assumptions for each operation are also listed. A summary table providing total cost estimates precedes the operating cost budget worksheets.

SE 1994 Machinery List -- Southeastern Nebraska						
Mcode	Machine	Price	Annual Use	Years to Trade	Trade in	Repairs
Power Units						
4	Diesel Pivot 281' head	80,600	900 hr	17	0	1.66/hr
16	Tractor 120 hp diesel cab	61,289	500 hr	10	18,103	3.06/hr
17	Tractor 150 hp diesel cab	65,573	600 hr	10	19,370	3.93/hr
84	Combine 185 hp	90,000	200 hr	10	16,977	15.44/hr
Implements						
30	Tandem Disc 20'	14,485	1,000 ac	15	1,390	.52/ac
36	Field Cultivator 24'	10,486	750 ac	15	1,007	.22/ac
38	Row Crop Cultivator 6 row x 30"	3,803	750 ac	10	672	.26/ac
62	Grain Drill 16' disk	7,890	250 ac	15	757	.52/ac
66	Planter 6 row x 30"	15,640	500 ac	10	2,765	1.76/ac
73	Anhydrous Applicator 21'	8,141	600 ac	20	424	.57/ac
75	Sprayer 500 gallon 40' pull-type	4,780	450 ac	20	232	.07/ac
87	6 row corn head	33,562	760 ac	10	6,331	1.50/ac
89	15' grain head	17,251	760 ac	10	3,255	.78/ac
111	Grain Auger 8" X 66' PTO	3,216	150 bu000	20	178	.21/bu000
115	Bean Bar 15'	4,200	200 ac	20	234	.09/ac

1994 Operations List* Southeastern Nebraska

SE Operation	Power Code	Imp Code	Energy/hr	% Lube
All Irrig.	4		5.20 Gal Diesel	10%
Apply Anhy	17	73	7.70 Gal Diesel	10%
Auger	16	111	6.10 Gal Diesel	10%
Bale	Custom			
Bar	16	115	6.10 Gal Diesel	10%
Blow	17		7.70 Gal Diesel	10%
Broad. Spray	16	75	6.10 Gal Diesel	10%
Chop	Custom			
Combine	84	87	9.50 Gal Diesel	10%
Combine	84	89	9.50 Gal Diesel	10%
Disc w/harrow	17	30	7.70 Gal Diesel	10%
Drill Grain 1/2	16	62	6.10 Gal Diesel	10%
Dry	Custom			
Field Cult	17	36	7.70 Gal Diesel	10%
Move Bales	Custom			
Pack	17		7.70 Gal Diesel	10%
Plant	16	66	6.10 Gal Diesel	10%
Row Crop Cult	16	38	6.10 Gal Diesel	10%
Spread Fert.	16		6.10 Gal Diesel	10%
Truck	Custom			
Windrow	Custom			

*See previous page for power unit that corresponds to power code and implement code. The % lube is lube charge as a percentage of the fuel cost.

Budgeted Production Costs Summary, Southeast Nebraska 1994

Budget Crop Description	E16 Corn Grain Pivot Cont.	E17 Corn Silage Pivot	E18 Corn Grain Dryland	E19 Grain Sorghum Dryland	E20 Sorghum Silage Dryland	E21 Soybeans Dryland	E22 Wheat	E23 Alfalfa Hay Large Round
Yield	145.0 Bu	20.0 Ton	90.0 Bu	90.0 Bu	14.0 Ton	40.0 Bu	45.0 Bu	3.0 Ton
Mgt Fee/unit	\$0.10	\$0.50	\$0.10	\$0.10	\$0.50	\$0.30	\$0.15	\$2.00
Land Invest.	\$900	\$900	\$750	\$750	\$750	\$750	\$750	\$750
Unimp.	572	572	750	750	750	750	750	750
Irrig	328	328						
Mach Invest	\$229.52	\$159.63	\$209.16	\$196.41	\$117.56	\$208.22	\$179.78	\$4.95
Op Cost/ac	\$177.98	\$221.16	\$94.57	\$59.49	\$109.47	\$63.67	\$61.50	\$57.06
Overhead	\$8.90	\$11.06	\$4.73	\$2.97	\$5.47	\$3.18	\$3.08	\$2.85
Unpaid Mgt	\$14.50	\$10.00	\$9.00	\$9.00	\$7.00	\$12.00	\$6.75	\$6.00
RE Taxes	\$13.00	\$13.00	\$10.00	\$10.00	\$10.00	\$10.00	\$10.00	\$10.00
Land Interest	33.18	33.18	43.50	43.50	43.50	43.50	43.50	43.50
Irrig Interest	22.63	22.63						
Irrig Deprec	36.00	36.00						
Land Subtotal	\$104.81	\$104.81	\$53.50	\$53.50	\$53.50	\$53.50	\$53.50	\$53.50
Mach. Interest	\$15.84	\$11.01	\$14.43	\$13.55	\$8.11	\$14.37	\$12.40	\$0.34
Mach. Deprec	28.46	18.01	26.16	24.42	13.34	25.55	21.99	0.54
Mach. Subtotal	\$44.30	\$29.02	\$40.59	\$37.97	\$21.45	\$39.92	\$34.39	\$0.88
Total Owner Cost	\$149.10	\$133.83	\$94.09	\$91.47	\$74.95	\$93.42	\$87.89	\$54.38
Estab Costs								\$20.36
Total Cost/ac	\$350.48	\$376.05	\$202.39	\$162.94	\$196.90	\$172.27	\$159.22	\$140.65
Total Cost/unit	\$2.42	\$18.80	\$2.25	\$1.81	\$14.06	\$4.31	\$3.54	\$46.88

E16

Returns Above Operating Costs Budget Worksheet
 Cont. Corn, Pivot Irrig, Diesel, 281' Head
 8 Acre-inches 145 Bu Corn

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Apply Anhy	6.22 Ac/hr	0.19	0.16	0.89 D	0.63	0.57		2.09	
2 Disc w/harrow	10.63 Ac/hr	0.11	0.09	0.52 D	0.37	0.52		1.41	
3 Field Cult	8.96 Ac/hr	0.13	0.11	0.61 D	0.44	0.22		1.27	
4 Plant	4.9 Ac/hr	0.24	0.20	0.89 D	0.62	1.76		3.27	
5 Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.82 D	0.58	0.26		1.66	
6 Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.82 D	0.58	0.26		1.66	
7 Broad. Spray	Custom								
8 All Irrig.	800 GPM	0.27	4.49	16.69 D	7.45			24.14	
9 Combine	3.44 Ac/hr	0.35	0.29	1.97 D	4.49	1.5		7.96	
10 Truck	Custom								
11 Auger	2500 Bu/hr	0.07	0.06	0.25 D	0.18	0.03		0.46	
12 Dry	Custom								
Subtotal		1.82 Hrs		23.46	15.34	5.12		\$43.92	

Diesel 32.78 Gal @ \$0.65 \$21.31

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	4	0.33 bag		79.23	26.15	\$26.15	
Fertilizer	Anhy N	1	140 lb.	N	0.12	16.80	16.80	
	18-46-0	4	50 lb		0.11	5.50	5.50	
Chemicals	Bicep	4	1.5 qt		8.13	12.20	12.20	
	Counter 15G	4	8.9 lb		1.64	14.60	14.60	
	Furadan 1/3 Yr	7	2.211 lb		1.70	3.76	3.76	
Custom	Truck	10	145 bu		0.12	17.40	17.40	
	Dryer	12	145 bu		0.10	14.50	14.50	
	Broadcast Spray	7	1 ac		3.50	3.50	3.50	
Subtotal							\$114.40	
Total Operating Costs excluding Interest & Unpaid Labor							\$158.32	
Interest on Oper. Capital \$158.32 @ 8.3% for 8 Months							8.76	
Unpaid Labor 1.82 Hours \$6.00 /hr							10.90	
Total Operating Costs							\$177.98	

Projected Returns

Corn 145 Bu @
 Crop Residue 3 AUM @

Total Returns

Net Return above Operating Costs

E17

Returns Above Operating Costs Budget Worksheet
 Corn Silage, Pivot Irrig, Diesel, 281' Head
 8 Acre-inches 20 Ton Silage

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Apply Anhy	6.22 Ac/hr	0.19	0.16	0.89 D	0.63	0.57		2.09	
2 Disc w/harrow	10.63 Ac/hr	0.11	0.09	0.52 D	0.37	0.52		1.41	
3 Field Cult	8.96 Ac/hr	0.13	0.11	0.61 D	0.44	0.22		1.27	
4 Plant	4.9 Ac/hr	0.24	0.20	0.89 D	0.62	1.76		3.27	
5 Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.82 D	0.58	0.26		1.66	
6 Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.82 D	0.58	0.26		1.66	
7 All Irrig.	800 GPM	0.27	4.49	16.69 D	7.45			24.14	
8 Chop	Custom								
9 Truck	Custom								
10 Blow	1.75 Ac/hr	0.34	0.57	3.15 D	2.25			5.40	
Subtotal		1.74 Hrs		24.39	12.92	3.59		\$40.90	

Diesel 34.05 Gal @ \$0.65 \$22.13

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	4	0.33	bag	79.23	26.15	\$26.15	
Fertilizer	Anhy N	1	150	lb. N	0.12	18.00	18.00	
	18-46-0	4	50	lb	0.11	5.50	5.50	
Chemicals	Atrazine 90 DF	4	1.5	lb	3.02	4.53	4.53	
	Counter 15G	4	8.9	lb	1.64	14.60	14.60	
Custom	Forage Chopper	8	20	ton	2.50	50.00	50.00	
	Truck	9	20	ton	2.00	40.00	40.00	
Subtotal							\$158.77	
Total Operating Costs excluding Interest & Unpaid Labor							\$199.67	
Interest on Oper. Capital		\$199.67 @ 8.3% for 8 Months					11.05	
Unpaid Labor		1.74 Hours \$6.00 /hr					10.44	
Total Operating Costs							\$221.16	

Projected Returns

Silage

20 Ton

@

Total Returns

Net Return above Operating Costs

E18

Returns Above Operating Costs Budget Worksheet
 Cont. Corn, Dryland
 90 Bu Corn

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Power	Repairs Impl			
1 Apply Anhy	6.22 Ac/hr	0.19	0.16	0.89 D	0.63	0.57		2.09	
2 Disc w/harrow	10.63 Ac/hr	0.11	0.09	0.52 D	0.37	0.52		1.41	
3 Field Cult	8.96 Ac/hr	0.13	0.11	0.61 D	0.44	0.22		1.27	
4 Plant	4.9 Ac/hr	0.24	0.20	0.89 D	0.62	1.76		3.27	
5 Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.82 D	0.58	0.26		1.66	
6 Combine	3.44 Ac/hr	0.35	0.29	1.97 D	4.49	1.5		7.96	
7 Truck	Custom								
8 Auger	2500 Bu/hr	0.05	0.04	0.16 D	0.11	0.02		0.29	
9 Dry	Custom								
Subtotal		1.30 Hrs		5.86	7.24	4.85		\$17.95	

Diesel 8.15 Gal @ \$0.65 \$5.30

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Corn	4	0.25	bag	79.23	19.81	\$19.81	
Fertilizer	Anhy N	1	90	lb. N	0.12	10.80	10.80	
Chemicals	Atrazine 90 DF	4	1.5	lb	3.02	4.53	4.53	
	Counter 15G	4	8.9	lb	1.64	14.60	14.60	
	Furadan 1/3 Yr	5	2.211	lb	1.70	3.76	3.76	
Custom	Truck	7	90	bu	0.12	10.80	10.80	
Subtotal							\$64.29	
Total Operating Costs excluding Interest & Unpaid Labor							\$82.24	
Interest on Oper. Capital			\$82.24 @ 8.3%	for 8 Months			4.55	
Unpaid Labor			1.30 Hours	\$6.00 /hr			7.78	
Total Operating Costs							\$94.57	
Projected Returns								
Corn			90 Bu		@			
Crop Residue			2 AUM		@			
Total Returns								
Net Return above Operating Costs								

E19

Returns Above Operating Costs Budget Worksheet
 Grain Sorghum, Dryland
 90 Bu Sorghum

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Power	Repairs Impl			
1 Disc w/harrow	10.63 Ac/hr	0.11	0.09	0.52 D	0.37	0.52		1.41	
2 Apply Anhy	6.22 Ac/hr	0.19	0.16	0.89 D	0.63	0.57		2.09	
3 Field Cult	8.96 Ac/hr	0.13	0.11	0.61 D	0.44	0.22		1.27	
4 Plant	4.9 Ac/hr	0.24	0.20	0.89 D	0.62	1.76		3.27	
5 Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.82 D	0.58	0.26		1.66	
6 Combine	3.44 Ac/hr	0.35	0.29	1.97 D	4.49	0.78		7.24	
7 Truck	Custom								
8 Auger	2500 Bu/hr	0.05	0.04	0.16 D	0.11	0.02		0.29	
Subtotal		1.30 Hrs		5.86	7.24	4.13		\$17.23	

Diesel 8.15 Gal @ \$0.65 \$5.30

Materials & Services		Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Sorghum	4	5 lb	1.07	5.35	\$5.35	
Fertilizer	Anhy N	2	70 lb. N	0.12	8.40	8.40	
Chemicals	Lariat	4	1.5 qt	4.81	7.22	7.22	
Custom	Truck	7	90 bu	0.12	10.80	10.80	
Subtotal						\$31.77	
Total Operating Costs excluding Interest & Unpaid Labor						\$49.00	
Interest on Oper. Capital			\$49.00 @ 8.3%	for 8 Months		2.71	
Unpaid Labor			1.30 Hours	\$6.00 /hr		7.78	
Total Operating Costs						\$59.49	

Projected Returns

Sorghum 90 Bu @
 Crop Residue 2 AUM @

Total Returns

Net Return above Operating Costs

E20

Returns Above Operating Costs Budget Worksheet
Sorghum Silage, Dryland
14 Ton Silage

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Disc w/harrow	10.63 Ac/hr	0.11	0.09	0.52 D	0.37	0.52		1.41	
2 Apply Anhy	6.22 Ac/hr	0.19	0.16	0.89 D	0.63	0.57		2.09	
3 Field Cult	8.96 Ac/hr	0.13	0.11	0.61 D	0.44	0.22		1.27	
4 Plant	4.9 Ac/hr	0.24	0.20	0.89 D	0.62	1.76		3.27	
5 Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.82 D	0.58	0.26		1.66	
6 Chop	Custom								
7 Truck	Custom								
8 Pack	4.35 Ac/hr	0.28	0.23	1.27 D	0.90			2.17	
Subtotal		1.18 Hrs		5.00	3.54	3.33		\$11.87	
Diesel	6.92 Gal @ \$0.65	\$4.50							

Materials & Services	Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed Sorghum	4	5 lb	1.07	5.35	\$5.35	
Fertilizer Anhy N	2	80 lb. N	0.12	9.60	9.60	
Chemicals Lariat	4	1.5 qt	4.81	7.22	7.22	
Custom Forage Chopper	6	14 ton	2.50	35.00	35.00	
Truck	7	14 ton	2.00	28.00	28.00	
Subtotal					\$85.17	
Total Operating Costs excluding Interest & Unpaid Labor					\$97.04	
Interest on Oper. Capital		\$97.04 @ 8.3% for 8 Months			5.37	
Unpaid Labor		1.18 Hours \$6.00 /hr			7.06	
Total Operating Costs					\$109.47	

Projected Returns

Silage 14 Ton @

Total Returns

Net Return above Operating Costs

E21 Returns Above Operating Costs Budget Worksheet
Soybeans, Dryland

40 Bu Soybeans

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre				Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Disc w/harrow	10.63 Ac/hr	0.11	0.09	0.52 D	0.37	0.52		1.41	
2 Broad. Spray	10.63 Ac/hr	0.11	0.09	0.41 D	0.29	0.07		0.77	
3 Field Cult	8.96 Ac/hr	0.13	0.11	0.61 D	0.44	0.22		1.27	
4 Plant	4.9 Ac/hr	0.24	0.20	0.89 D	0.62	1.76		3.27	
5 Row Crop Cult	5.29 Ac/hr	0.23	0.19	0.82 D	0.58	0.26		1.66	
6 Bar	7.88 Ac/hr	0.16	0.13	0.55 D	0.39	0.09		1.03	
7 Combine	3.44 Ac/hr	0.35	0.29	1.97 D	4.49	0.78		7.24	
8 Truck	Custom								
Subtotal		1.32 Hrs		5.77	7.18	3.70		\$16.65	

Diesel 8.02 Gal @ \$0.65 \$5.21

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Soybeans	4	1	bag	14.43	14.43	\$14.43	
Chemicals	Sencor	2	0.5	lb	25.96	12.98	12.98	
	Treflan	2	0.5	pt	4.14	2.07	2.07	
	Roundup	6	0.33	pt	5.77	1.90	1.90	
Custom	Truck	8	40	bu	0.12	4.80	4.80	
Subtotal							\$36.18	
Total Operating Costs excluding Interest & Unpaid Labor							\$52.83	
Interest on Oper. Capital			\$52.83 @ 8.3% for 8 Months				2.92	
Unpaid Labor			1.32 Hours \$6.00 /hr				7.92	
Total Operating Costs							\$63.67	

Projected Returns

Soybeans

40 Bu

@

Total Returns

Net Return above Operating Costs

E22

Returns Above Operating Costs Budget Worksheet Wheat

45 Bu Wheat

Operation # Description		Operation Rate	Hrs per Acre		Cost per Acre					Your Estimate
								Sub- Total		
			Labor	Mach	Fuel & Lube	Repairs Power Impl				
1 Disc w/harrow	10.63 Ac/hr	0.11	0.09	0.52 D	0.37	0.52	1.41			
2 Apply Anhy	6.22 Ac/hr	0.19	0.16	0.89 D	0.63	0.57	2.09			
3 Field Cult	8.96 Ac/hr	0.13	0.11	0.61 D	0.44	0.22	1.27			
4 Drill Grain 1/2	3.52 Ac/hr	0.34	0.28	1.24 D	0.87	0.52	2.63			
5 Combine	3.44 Ac/hr	0.35	0.29	1.97 D	4.49	0.78	7.24			
6 Truck	Custom									
Subtotal		1.12 Hrs		5.23	6.80	2.61	\$14.64			

Diesel 7.23 Gal @ \$0.65 \$4.70

Materials & Services		Opera- tion #	Units per Acre		Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Seed	Wheat	4	75	lb	0.17	12.75	\$12.75	
Fertilizer	10-34-0	2	10.77	gal	1.22	13.14	13.14	
	Anhy N	2	50	lb. N	0.12	6.00	6.00	
Custom	Truck	6	45	bu	0.12	5.40	5.40	
Subtotal							\$37.29	
Total Operating Costs excluding Interest & Unpaid Labor							\$51.93	
Interest on Oper. Capital \$51.93 @ 8.3% for 8 Months							2.87	
Unpaid Labor 1.12 Hours \$6.00 /hr							6.70	
Total Operating Costs							\$61.50	

Projected Returns

Wheat

45 Bu

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Total Returns

Net Return above Operating Costs

E23

Returns Above Operating Costs Budget Worksheet
 Alfalfa Hay, Large Round Bales
 3 Ton Hay

Operation # Description	Operation Rate	Hrs per Acre		Cost per Acre			Sub- Total	Your Estimate
		Labor	Mach	Fuel & Lube	Repairs Power Impl			
1 Spread Fert.	16.04 Ac/hr	0.07	0.06	0.27	D 0.19		0.46	
2 Windrow	Custom							
3 Bale	Custom							
4 Move Bales	Custom							
5 Windrow	Custom							
6 Bale	Custom							
7 Move Bales	Custom							
8 Windrow	Custom							
9 Bale	Custom							
10 Move Bales	Custom							
Subtotal		0.07	Hrs	0.27	0.19		\$0.46	

Diesel 0.37 Gal @ \$0.65 \$0.24

Materials & Services		Opera- tion #	Units per Acre	Cost per Unit	Cost per Acre	Sub- Total	Your Estimate
Fertilizer	0-46-0	1	30 lb.P20	0.19	5.70	\$5.70	
Custom	Windrower	2	1 ac	7.50	7.50	7.50	
	Baler Round	3	1 bale	6.00	6.00	6.00	
	Move Bales	4	1 bale	1.00	1.00	1.00	
	Windrower	5	1 ac	7.50	7.50	7.50	
	Baler Round	6	1.5 bale	6.00	9.00	9.00	
	Move Bales	7	1 bale	1.00	1.00	1.00	
	Windrower	8	1 ac	7.50	7.50	7.50	
	Baler Round	9	1 bale	6.00	6.00	6.00	
	Move Bales	10	1 bale	1.00	1.00	1.00	
Rental	Spread Fert.	1	1 ac	1.00	1.00	1.00	
Subtotal						\$53.20	
Total Operating Costs excluding Interest & Unpaid Labor						\$53.66	
Interest on Oper. Capital \$53.66 @ 8.3% for 8 Months						2.97	
Unpaid Labor 0.07 Hours \$6.00 /hr						0.43	
Total Operating Costs						\$57.06	

Projected Returns

Hay

3 Ton

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Total Returns

Net Return above Operating Costs