

1997 - Crop Inputs and Rotation Summaries - Dakota Lakes East Farm

Crop: W.Wheat Yield: 45.2 bu/ac Previous Crop: Lentil/Pea
 Rotation: W.Wheat-Warm Season Broadleaf-Warm Season Grass-Cool Season Broadleaf
 Workload capability for this rotation is 2,400 acres.*

I. Detailed Operations Cost

Date	Machinery Or Input	Units Applied	Owner- ship	Oper- ating	Labor	Total Costs	Cost/ Acre	Cost per Unit
07/23/96	Tractor 085 hp 4yr-4200 a Sprayer PT 37.5' 4yr-4200 Roundup Ultra RT	0.0 Hrs(1.0 Times) 1.5 Pints	0.44 0.66	0.23 0.23	0.61 0.04	1.29 0.93 7.50	1.29 0.93 7.50	0.028 0.021 0.166
TOTAL Operation Cost						9.72	9.72	0.215
09/30/96	Tractor 110 hp DL 2400 ac No-Till Drill,12.5'-1200 Wheat Seed - Jagger 18-46-0 (DAP) Vitavax-Thiram-Linda	0.2 Hrs(1.0 Times) 130.0 Pounds 70.0 Pounds 3.0 Ounces	2.29 4.43	1.16 0.56	2.06 0.15	5.51 5.13 22.10 8.40 1.11	5.51 5.13 22.10 8.40 1.11	0.122 0.114 0.489 0.186 0.025
TOTAL Operation Cost						42.25	42.25	0.935
04/28/97	Tractor 110 hp DL 2400 ac No-Till Drill,12.5'-1200 Wheat Seed - Russ 18-46-0 (DAP)	0.2 Hrs(1.0 Times) 2.1 Bushels 20.0 Pounds	2.29 4.43	1.16 0.56	2.06 0.15	5.51 5.13 14.17 2.40	5.51 5.13 14.17 2.40	0.122 0.114 0.314 0.053
TOTAL Operation Cost						27.21	27.21	0.602
05/14/97	Tractor 085 hp 4yr-4200 a Fertilizer Sprd. 37.5'-24 46-0-0	0.0 Hrs(1.0 Times) 180.0 Pounds	0.25 0.17	0.13 0.07	0.35 0.02	0.73 0.27 19.44	0.73 0.27 19.44	0.016 0.006 0.430
TOTAL Operation Cost						20.44	20.44	0.452
05/25/97	Tractor 085 hp 4yr-4200 a Sprayer PT 37.5' 4yr-4200 Bronate 2+2E	0.0 Hrs(1.0 Times) 1.0 Pints	0.44 0.66	0.23 0.23	0.61 0.04	1.29 0.93 5.75	1.29 0.93 5.75	0.028 0.021 0.127
TOTAL Operation Cost						7.97	7.97	0.176
08/04/97	Combine 4420 4yr-2400 acr Combine Head-Stripper 14'	0.2 Hrs(1.0 Times)	1.76 2.05	1.41 0.24	2.89 0.19	6.07 2.48	6.07 2.48	0.134 0.055
TOTAL Operation Cost						8.54	8.54	0.189
08/05/97	Custom(add rate from I-O Amort cost/2400 acre	0.0 Hrs(1.0 Times) 1.0 Acres	0.00	0.00	0.01	0.01 5.14	0.01 5.14	0.000 0.114
TOTAL Operation Cost						5.15	5.15	0.114
TOTAL Machinery Cost						35.27	35.27	0.780
TOTAL Input Cost						86.01	86.01	1.903
TOTAL Budget Cost						121.28	121.28	2.683

Income or Expense Item	SubTotal	Total	Amount Per Acre	Amount Per Unit
1. Gross Revenues				
1.1 Wheat	144.64			
1.2 Total Crop Revenue		144.64	144.64	3.200
2. Machinery Cost				
2.1 Ownership Cost	19.86		19.86	0.439
2.2 Operating Cost	3.79		3.79	0.084
2.3 Total Machinery Cost		23.65	23.65	0.523
3. Materials Cost				
3.1 Materials	86.01		86.01	1.903
3.2 Fuel Cost	2.44		2.44	0.054
3.3 Labor Wages	9.18		9.18	0.203
3.4 Total Materials Cost		97.63	97.63	2.160
4. Capital Costs		9.62	9.62	0.213
5. Drying Costs		0.00	0.00	0.000
6. Land Charges		30.00	30.00	0.664
7. Management Fees		0.00	0.00	0.000
Gross Revenues		144.64	144.64	3.20
Total Costs		160.90	160.90	3.56
Net Profit or Loss		-16.26	-16.26	-0.36

*Workload capability is based on a 12.5' drill or planter and seeding 6 acres/hour.
 6 acres/hour X 10 hours/day X 10 days/crop = 600 acres per crop type.

1997 - Crop Inputs and Rotation Summaries - Dakota Lakes East Farm

Crop: Soybeans Yield: 47 bu/ac Previous Crop: W.Wheat
 Rotation: W.Wheat-Warm Season Broadleaf-Warm Season Grass-Cool Season Broadleaf
 Workload capability for this rotation is 2,400 acres.*

I. Detailed Operations Cost

Date	Machinery Or Input	Units Applied	Owner-ship	Oper-ating	Labor	Total Costs	Cost/ Acre	Cost per Unit
07/17/96	Tractor 085 hp 4yr-4200 a	0.0 Hrs(1.0 Times)	0.44	0.23	0.61	1.29	1.29	0.027
	Sprayer PT 37.5' 4yr-4200		0.66	0.23	0.04	0.93	0.93	0.020
	Roundup Ultra RT	1.5 Pints				7.50	7.50	0.160
	TOTAL Operation Cost					9.72	9.72	0.207
05/12/97	Tractor 110 hp DL 2400 ac	0.2 Hrs(1.0 Times)	2.32	1.18	2.09	5.59	5.59	0.119
	Planter NT 10-15 DL 1200		4.38	0.58	0.15	5.11	5.11	0.109
	SB Seed Pio 9172	180.0 Thousands				25.20	25.20	0.536
	Inoculant, Soybeans	1.2 Bushels				1.06	1.06	0.022
	10-50-0	50.0 Pounds				6.00	6.00	0.128
	TOTAL Operation Cost					42.95	42.95	0.914
05/15/97	Tractor 085 hp 4yr-4200 a	0.0 Hrs(1.0 Times)	0.44	0.23	0.61	1.29	1.29	0.027
	Sprayer PT 37.5' 4yr-4200		0.66	0.23	0.04	0.93	0.93	0.020
	Roundup Ultra RT	1.3 Pints				6.25	6.25	0.133
	TOTAL Operation Cost					8.47	8.47	0.180
06/19/97	Tractor 085 hp 4yr-4200 a	0.0 Hrs(1.0 Times)	0.44	0.23	0.61	1.29	1.29	0.027
	Sprayer PT 37.5' 4yr-4200		0.66	0.23	0.04	0.93	0.93	0.020
	Pursuit 70DG	1.4 Ounces				23.00	23.00	0.489
	TOTAL Operation Cost					25.21	25.21	0.536
07/06/97	Tractor 085 hp 4yr-4200 a	0.0 Hrs(1.0 Times)	0.44	0.23	0.61	1.29	1.29	0.027
	Sprayer PT 37.5' 4yr-4200		0.66	0.23	0.04	0.93	0.93	0.020
	Assure II	0.4 Pints				6.22	6.22	0.132
	Non-ionic surfactant	3.2 Ounces				0.38	0.38	0.008
	TOTAL Operation Cost					8.82	8.82	0.188
09/08/97	Custom(add rate from I-O	0.0 Hrs(1.0 Times)	0.00	0.00	0.01	0.01	0.01	0.000
	Amort cost/2400 acre	1.0 Acres				5.14	5.14	0.109
	TOTAL Operation Cost					5.15	5.15	0.110
10/20/97	Combine 4420 4yr-2400 acr	0.4 Hrs(1.0 Times)	3.17	2.54	5.20	10.92	10.92	0.232
	Combine Head Flexhead-12.		1.88	0.19	0.34	2.42	2.42	0.051
	TOTAL Operation Cost					13.34	13.34	0.284
	TOTAL Machinery Cost					32.92	32.92	0.700
	TOTAL Input Cost					80.74	80.74	1.718
	TOTAL Budget Cost					113.66	113.66	2.418

Income or Expense Item	SubTotal	Total	Amount Per Acre	Amount Per Unit
1. Gross Revenues				
1.1 Soybeans	235.00			
1.2 Total Crop Revenue		235.00	235.00	5.000
2. Machinery Cost				
2.1 Ownership Cost	16.16		16.16	0.344
2.2 Operating Cost	3.79		3.79	0.081
2.3 Total Machinery Cost		19.94	19.94	0.424
3. Materials Cost				
3.1 Materials	80.74		80.74	1.718
3.2 Fuel Cost	2.56		2.56	0.055
3.3 Labor Wages	10.41		10.41	0.222
3.4 Total Materials Cost		93.72	93.72	1.994
4. Capital Costs		6.23	6.23	0.132
5. Drying Costs		0.00	0.00	0.000
6. Land Charges		30.00	30.00	0.638
7. Management Fees		0.00	0.00	0.000
Gross Revenues		235.00	235.00	5.00
Total Costs		149.89	149.89	3.19
Net Profit or Loss		85.11	85.11	1.81

*Workload capability is based on a 12.5' drill or planter and seeding 6 acres/hour.
 6 acres/hour X 10 hours/day X 10 days/crop = 600 acres per crop type.

1997 - Crop Inputs and Rotation Summaries - Dakota Lakes East Farm

Crop: Sunflowers Yield: 1,960 lbs/ac Previous Crop: W.Wheat

Rotation: W.Wheat-Warm Season Broadleaf-Warm Season Grass-Cool Season Broadleaf

Workload capability for this rotation is 2,400 acres.*

I. Detailed Operations Cost

Date	Machinery Or Input	Units Applied	Owner-ship	Oper-ating	Labor	Total Costs	Cost/Acre	Cost per Unit
07/17/96	Tractor 085 hp 4yr-4200 a	0.0 Hrs(1.0 Times)	0.44	0.23	0.61	1.29	1.29	0.066
	Sprayer PT 37.5' 4yr-4200		0.66	0.23	0.04	0.93	0.93	0.048
	Roundup Ultra RT	1.5 Pints				7.50	7.50	0.383
TOTAL Operation Cost						9.72	9.72	0.496
05/14/97	Tractor 085 hp 4yr-4200 a	0.0 Hrs(1.0 Times)	0.25	0.13	0.35	0.73	0.73	0.037
	Fertilizer Sprd. 37.5'-24		0.17	0.07	0.02	0.27	0.27	0.014
	46-0-0	150.0 Pounds				16.20	16.20	0.827
TOTAL Operation Cost						17.20	17.20	0.877
05/15/97	Tractor 085 hp 4yr-4200 a	0.0 Hrs(1.0 Times)	0.44	0.23	0.61	1.29	1.29	0.066
	Sprayer PT 37.5' 4yr-4200		0.66	0.23	0.04	0.93	0.93	0.048
	Roundup Ultra RT	1.3 Pints				6.25	6.25	0.319
TOTAL Operation Cost						8.47	8.47	0.432
06/20/97	Tractor 110 hp DL 2400 ac	0.2 Hrs(1.0 Times)	2.32	1.18	2.09	5.59	5.59	0.285
	Planter NT 10-15 DL 1200		4.38	0.58	0.15	5.11	5.11	0.261
	Sunflower Sd CG 128A	25.0 Thousands				18.25	18.25	0.931
	10-50-0	100.0 Pounds				12.00	12.00	0.612
TOTAL Operation Cost						40.95	40.95	2.089
06/23/97	Tractor 085 hp 4yr-4200 a	0.0 Hrs(1.0 Times)	0.44	0.23	0.61	1.29	1.29	0.066
	Sprayer PT 37.5' 4yr-4200		0.66	0.23	0.04	0.93	0.93	0.048
	Roundup Ultra RT	1.5 Pints				7.50	7.50	0.383
TOTAL Operation Cost						9.72	9.72	0.496
07/06/97	Tractor 085 hp 4yr-4200 a	0.0 Hrs(1.0 Times)	0.44	0.23	0.61	1.29	1.29	0.066
	Sprayer PT 37.5' 4yr-4200		0.66	0.23	0.04	0.93	0.93	0.048
	Ultima 160	0.8 Pints				5.81	5.81	0.297
	Crop Oil Concentrate	0.3 Gallons				1.06	1.06	0.054
TOTAL Operation Cost						9.09	9.09	0.464
07/12/97	Custom(add rate from I-O	0.0 Hrs(1.0 Times)	0.00	0.00	0.01	0.01	0.01	0.001
	Custom Asana 5.8oz/A	1.0 Acres				9.44	9.44	0.482
TOTAL Operation Cost						9.45	9.45	0.482
09/08/97	Custom(add rate from I-O	0.0 Hrs(1.0 Times)	0.00	0.00	0.01	0.01	0.01	0.001
	Amort cost/2400 acre	1.0 Acres				5.14	5.14	0.262
TOTAL Operation Cost						5.15	5.15	0.263
10/08/97	Combine 4420 4yr-2400 acr	0.4 Hrs(1.0 Times)	3.17	2.54	5.20	10.92	10.92	0.557
	Combine Head Sunflowers,		3.07	0.36	0.34	3.77	3.77	0.192
	TOTAL Operation Cost						14.69	14.69
TOTAL Machinery Cost						35.29	35.29	1.800
TOTAL Input Cost						89.15	89.15	4.549
TOTAL Budget Cost						124.44	124.44	6.349

Net Returns Calculations

Income or Expense Item	SubTotal	Total	Amount Per Acre	Amount Per Unit
1. Gross Revenues				
1.1 Sunflowers	176.40			
1.2 Total Crop Revenue		176.40	176.40	9.000
2. Machinery Cost				
2.1 Ownership Cost	17.76		17.76	0.906
2.2 Operating Cost	4.07		4.07	0.208
2.3 Total Machinery Cost		21.84	21.84	1.114
3. Materials Cost				
3.1 Materials	89.15		89.15	4.549
3.2 Fuel Cost	2.65		2.65	0.135
3.3 Labor Wages	10.80		10.80	0.551
3.4 Total Materials Cost		102.60	102.60	5.235
4. Capital Costs		6.44	6.44	0.329
5. Drying Costs		0.00	0.00	0.000
6. Land Charges		30.00	30.00	1.531
7. Management Fees		0.00	0.00	0.000
Gross Revenues		176.40	176.40	9.00
Total Costs		160.88	160.88	8.21
Net Profit or Loss		15.52	15.52	0.79

*Workload capability is based on a 12.5' drill or planter and seeding 6 acres/hour.
 6 acres/hour X 10 hours/day X 10 days/crop = 600 acres per crop type.

1997 - Crop Inputs and Rotation Summaries - Dakota Lakes East Farm

Crop: Corn

Yield: 142 bu/ac

Previous Crop: Soybeans

Rotation: W.Wheat-Warm Season Broadleaf-Warm Season Grass-Cool Season Broadleaf

Workload capability for this rotation is 2,400 acres.*

I. Detailed Operations Cost

Date	Machinery Or Input	Units Applied	Owner-ship	Oper-ating	Labor	Total Costs	Cost/Acre	Cost per Unit
05/09/97	Tractor 085 hp 4yr-4200 a	0.0 Hrs(1.0 Times)	0.44	0.23	0.61	1.29	1.29	0.009
	Sprayer PT 37.5' 4yr-4200		0.66	0.23	0.04	0.93	0.93	0.007
	Roundup Ultra RT	1.3 Pints				6.25	6.25	0.044
	TOTAL Operation Cost					8.47	8.47	0.060
05/10/97	Tractor 110 hp DL 2400 ac	0.2 Hrs(1.0 Times)	2.32	1.18	2.09	5.59	5.59	0.039
	Planter NT 10-15 DL 1200		4.38	0.58	0.15	5.11	5.11	0.036
	Corn Seed, Pio 3489	24.0 Thousands				31.68	31.68	0.223
	18-46-0 (DAP)	70.0 Pounds				8.40	8.40	0.059
	TOTAL Operation Cost					50.78	50.78	0.358
05/19/97	Tractor 085 hp 4yr-4200 a	0.0 Hrs(1.0 Times)	0.25	0.13	0.35	0.73	0.73	0.005
	Fertilizer Sprd. 37.5'-24		0.17	0.07	0.02	0.27	0.27	0.002
	46-0-0	150.0 Pounds				16.20	16.20	0.114
	TOTAL Operation Cost					17.20	17.20	0.121
06/07/97	Tractor 085 hp 4yr-4200 a	0.0 Hrs(1.0 Times)	0.44	0.23	0.61	1.29	1.29	0.009
	Sprayer PT 37.5' 4yr-4200		0.66	0.23	0.04	0.93	0.93	0.007
	Buctril	1.0 Pints				6.38	6.38	0.045
	TOTAL Operation Cost					8.60	8.60	0.061
07/12/97	Custom(add rate from I-O	0.0 Hrs(1.0 Times)	0.00	0.00	0.01	0.01	0.01	0.000
	Custom Asana 5.8oz/A	1.0 Acres				9.44	9.44	0.066
	TOTAL Operation Cost					9.45	9.45	0.067
09/08/97	Custom(add rate from I-O	0.0 Hrs(1.0 Times)	0.00	0.00	0.01	0.01	0.01	0.000
	Amort cost/2400 acre	1.0 Acres				5.14	5.14	0.036
	TOTAL Operation Cost					5.15	5.15	0.036
10/15/97	Combine 4420 4yr-2400 acr	0.3 Hrs(1.0 Times)	2.64	2.12	4.34	9.10	9.10	0.064
	Combine Hd Corn 10-15"-2		3.72	0.64	0.28	4.65	4.65	0.033
	TOTAL Operation Cost					13.75	13.75	0.097
	TOTAL Machinery Cost					29.91	29.91	0.211
	TOTAL Input Cost					83.49	83.49	0.588
	TOTAL Budget Cost					113.40	113.40	0.799

Income or Expense Item	SubTotal	Total	Amount Per Acre	Amount Per Unit
1. Gross Revenues				
1.1 Corn Grain	284.00			
1.2 Total Crop Revenue		284.00	284.00	2.000
2. Machinery Cost				
2.1 Ownership Cost	15.68		15.68	0.110
2.2 Operating Cost	3.53		3.53	0.025
2.3 Total Machinery Cost		19.21	19.21	0.135
3. Materials Cost				
3.1 Materials	83.49		83.49	0.588
3.2 Fuel Cost	2.13		2.13	0.015
3.3 Labor Wages	8.56		8.56	0.060
3.4 Total Materials Cost		94.19	94.19	0.663
4. Capital Costs		5.68	5.68	0.040
5. Drying Costs		0.00	0.00	0.000
6. Land Charges		30.00	30.00	0.211
7. Management Fees		0.00	0.00	0.000
Gross Revenues		284.00	284.00	2.00
Total Costs		149.07	149.07	1.05
Net Profit or Loss		134.93	134.93	0.95

*Workload capability is based on a 12.5' drill or planter and seeding 6 acres/hour.
 6 acres/hour X 10 hours/day X 10 days/crop = 600 acres per crop type.

1997 - Crop Inputs and Rotation Summaries - Dakota Lakes East Farm

Crop: Corn Yield: 145 bu/ac Previous Crop: Sunflowers
 Rotation: W.Wheat-Warm Season Broadleaf-Warm Season Grass-Cool Season Broadleaf
 Workload capability for this rotation is 2,400 acres.*

I. Detailed Operations Cost

Date	Machinery Or Input	Units Applied	Owner-ship	Oper-ating	Labor	Total Costs	Cost/ Acre	Cost per Unit
05/09/97	Tractor 085 hp 4yr-4200 a	0.0 Hrs(1.0 Times)	0.44	0.23	0.61	1.29	1.29	0.009
	Sprayer PT 37.5' 4yr-4200		0.66	0.23	0.04	0.93	0.93	0.006
	Roundup Ultra RT	1.3 Pints				6.25	6.25	0.043
	TOTAL Operation Cost					8.47	8.47	0.058
05/10/97	Tractor 110 hp DL 2400 ac	0.2 Hrs(1.0 Times)	2.32	1.18	2.09	5.59	5.59	0.039
	Planter NT 10-15 DL 1200		4.38	0.58	0.15	5.11	5.11	0.035
	Corn Seed, Pio 3489	24.0 Thousands				31.68	31.68	0.218
	18-46-0 (DAP)	70.0 Pounds				8.40	8.40	0.058
	TOTAL Operation Cost					50.78	50.78	0.350
05/19/97	Tractor 085 hp 4yr-4200 a	0.0 Hrs(1.0 Times)	0.25	0.13	0.35	0.73	0.73	0.005
	Fertilizer Sprd. 37.5'-24		0.17	0.07	0.02	0.27	0.27	0.002
	46-0-0	150.0 Pounds				16.20	16.20	0.112
	TOTAL Operation Cost					17.20	17.20	0.119
05/30/97	Tractor 085 hp 4yr-4200 a	0.0 Hrs(1.0 Times)	0.44	0.23	0.61	1.29	1.29	0.009
	Sprayer PT 37.5' 4yr-4200		0.66	0.23	0.04	0.93	0.93	0.006
	Atrazine 90DF	0.3 Pounds				0.83	0.83	0.006
	Basagran	0.3 Quarts				5.70	5.70	0.039
	Banvel 4L	0.4 Pints				3.58	3.58	0.025
	TOTAL Operation Cost					12.31	12.31	0.085
07/12/97	Custom(add rate from I-O	0.0 Hrs(1.0 Times)	0.00	0.00	0.01	0.01	0.01	0.000
	Custom Asana 5.8oz/A	1.0 Acres				9.44	9.44	0.065
	TOTAL Operation Cost					9.45	9.45	0.065
09/08/97	Custom(add rate from I-O	0.0 Hrs(1.0 Times)	0.00	0.00	0.01	0.01	0.01	0.000
	Amort cost/2400 acre	1.0 Acres				5.14	5.14	0.035
	TOTAL Operation Cost					5.15	5.15	0.036
10/15/97	Combine 4420 4yr-2400 acr	0.3 Hrs(1.0 Times)	2.64	2.12	4.34	9.10	9.10	0.063
	Combine Hd Corn 10-15"-2		3.72	0.64	0.28	4.65	4.65	0.032
	TOTAL Operation Cost					13.75	13.75	0.095
	TOTAL Machinery Cost					29.91	29.91	0.206
	TOTAL Input Cost					87.21	87.21	0.601
	TOTAL Budget Cost					117.11	117.11	0.808

Income or Expense Item	SubTotal	Total	Amount Per Acre	Amount Per Unit
1. Gross Revenues				
1.1 Corn Grain	290.00			
1.2 Total Crop Revenue		290.00	290.00	2.000
2. Machinery Cost				
2.1 Ownership Cost	15.68		15.68	0.108
2.2 Operating Cost	3.53		3.53	0.024
2.3 Total Machinery Cost		19.21	19.21	0.132
3. Materials Cost				
3.1 Materials	87.21		87.21	0.601
3.2 Fuel Cost	2.13		2.13	0.015
3.3 Labor Wages	8.56		8.56	0.059
3.4 Total Materials Cost		97.90	97.90	0.675
4. Capital Costs		5.92	5.92	0.041
5. Drying Costs		0.00	0.00	0.000
6. Land Charges		30.00	30.00	0.207
7. Management Fees		0.00	0.00	0.000
Gross Revenues		290.00	290.00	2.00
Total Costs		153.03	153.03	1.06
Net Profit or Loss		136.97	136.97	0.94

*Workload capability is based on a 12.5' drill or planter and seeding 6 acres/hour.
 6 acres/hour X 10 hours/day X 10 days/crop = 600 acres per crop type.

1997 - Crop Inputs and Rotation Summaries - Dakota Lakes East Farm

Crop: Field Peas

Yield: 42.4 bu/ac

Previous Crop: Corn

Rotation: W.Wheat-Warm Season Broadleaf-Warm Season Grass-Cool Season Broadleaf

Workload capability for this rotation is 2,400 acres.*

I. Detailed Operations Cost

Date	Machinery Or Input	Units Applied	Owner-ship	Oper-ating	Labor	Total Costs	Cost/ Acre	Cost per Unit
04/01/97	Tractor 110 hp DL 2400 ac	0.2 Hrs(1.0 Times)	2.29	1.16	2.06	5.51	5.51	0.130
	No-Till Drill,12.5'-1200		4.43	0.56	0.15	5.13	5.13	0.121
	Field Pea Seed-Grand	160.0 Pounds				25.44	25.44	0.600
	10-50-0	50.0 Pounds				6.00	6.00	0.142
	Inoculant, Type C	2.5 Bushels				2.50	2.50	0.059
TOTAL Operation Cost						44.58	44.58	1.051
05/09/97	Tractor 085 hp 4yr-4200 a	0.0 Hrs(1.0 Times)	0.44	0.23	0.61	1.29	1.29	0.030
	Sprayer PT 37.5' 4yr-4200		0.66	0.23	0.04	0.93	0.93	0.022
	Sencor 75DF	0.3 Pounds				6.31	6.31	0.149
	Pursuit 70DG	0.8 Ounces				11.98	11.98	0.282
TOTAL Operation Cost						20.51	20.51	0.484
08/04/97	Combine 4420 4yr-2400 acr	0.5 Hrs(1.0 Times)	3.96	3.18	6.51	13.65	13.65	0.322
	Combine Head-Stripper 14'		4.62	0.53	0.42	5.57	5.57	0.131
TOTAL Operation Cost						19.22	19.22	0.453
08/05/97	Custom(add rate from I-0	0.0 Hrs(1.0 Times)	0.00	0.00	0.01	0.01	0.01	0.000
	Amort cost/2400 acre	1.0 Acres				5.14	5.14	0.121
TOTAL Operation Cost						5.15	5.15	0.122
TOTAL Machinery Cost						32.09	32.09	0.757
TOTAL Input Cost						57.37	57.37	1.353
TOTAL Budget Cost						89.46	89.46	2.110

Income or Expense Item	SubTotal	Total	Amount Per Acre	Amount Per Unit
1. Gross Revenues				
1.1 Field Peas	190.80			
1.2 Total Crop Revenue		190.80	190.80	4.500
2. Machinery Cost				
2.1 Ownership Cost	16.40		16.40	0.387
2.2 Operating Cost	3.49		3.49	0.082
2.3 Total Machinery Cost		19.88	19.88	0.469
3. Materials Cost				
3.1 Materials	57.37		57.37	1.353
3.2 Fuel Cost	2.41		2.41	0.057
3.3 Labor Wages	9.80		9.80	0.231
3.4 Total Materials Cost		69.58	69.58	1.641
4. Capital Costs		4.88	4.88	0.115
5. Drying Costs		0.00	0.00	0.000
6. Land Charges		30.00	30.00	0.708
7. Management Fees		0.00	0.00	0.000
Gross Revenues		190.80	190.80	4.50
Total Costs		124.34	124.34	2.93
Net Profit or Loss		66.46	66.46	1.57

*Workload capability is based on a 12.5' drill or planter and seeding 6 acres/hour.
 6 acres/hour X 10 hours/day X 10 days/crop = 600 acres per crop type.

1997 - Crop Inputs and Rotation Summaries - Dakota Lakes East Farm

Crop: Lentils Yield: 0 lbs/ac Previous Crop: Corn

Rotation: W.Wheat-Warm Season Broadleaf-Warm Season Grass-Cool Season Broadleaf

Workload capability for this rotation is 2,400 acres.*

I. Detailed Operations Cost

Date	Machinery Or Input	Units Applied	Owner-ship	Oper-ating	Labor	Total Costs	Cost/Acre	Cost per Unit
04/01/97	Tractor 110 hp DL 2400 ac	0.2 Hrs(1.0 Times)	2.29	1.16	2.06	5.51	5.51	0.005
	No-Till Drill,12.5'-1200		4.43	0.56	0.15	5.13	5.13	0.005
	Lentil seed-Brewer/C	100.0 Pounds				26.00	26.00	0.025
	10-50-0	50.0 Pounds				6.00	6.00	0.006
	Inoculant, Type C	1.7 Bushels				1.67	1.67	0.002
TOTAL Operation Cost						44.31	44.31	0.043
05/09/97	Tractor 085 hp 4yr-4200 a	0.0 Hrs(1.0 Times)	0.44	0.23	0.61	1.29	1.29	0.001
	Sprayer PT 37.5' 4yr-4200		0.66	0.23	0.04	0.93	0.93	0.001
	Sencor 75DF	0.3 Pounds				6.31	6.31	0.006
	Pursuit 70DG	0.8 Ounces				11.98	11.98	0.012
TOTAL Operation Cost						20.51	20.51	0.020
08/05/97	Custom(add rate from I-0	0.0 Hrs(1.0 Times)	0.00	0.00	0.01	0.01	0.01	0.000
	Amort cost/2400 acre	1.0 Acres				5.14	5.14	0.005
TOTAL Operation Cost						5.15	5.15	0.005
TOTAL Machinery Cost						12.87	12.87	0.012
TOTAL Input Cost						57.10	57.10	0.055
TOTAL Budget Cost						69.97	69.97	0.067

Income or Expense Item	SubTotal	Total	Amount Per Acre	Amount Per Unit
1. Gross Revenues				
1.1 Lentils	0.00			
1.2 Total Crop Revenue		0.00	0.00	0.140
2. Machinery Cost				
2.1 Ownership Cost	7.82		7.82	0.008
2.2 Operating Cost	1.36		1.36	0.001
2.3 Total Machinery Cost		9.18	9.18	0.009
3. Materials Cost				
3.1 Materials	57.10		57.10	0.055
3.2 Fuel Cost	0.82		0.82	0.001
3.3 Labor Wages	2.87		2.87	0.003
3.4 Total Materials Cost		60.79	60.79	0.058
4. Capital Costs		4.42	4.42	0.004
5. Drying Costs		0.00	0.00	0.000
6. Land Charges		30.00	30.00	0.029
7. Management Fees		0.00	0.00	0.000
Gross Revenues		0.00	0.00	0.00
Total Costs		104.39	104.39	0.10
Net Profit or Loss		-104.39	-104.39	-0.10

*Workload capability is based on a 12.5' drill or planter and seeding 6 acres/hour.
 6 acres/hour X 10 hours/day X 10 days/crop = 600 acres per crop type.

1997 Production Costs were calculated using “Cost And Return Estimator (CARE)”. CARE calculates ownership, operating, labor, and fuel costs for each field operation. CARE also calculates capital costs (interest on materials), drying costs, and land charges.

1997 costs include:

<u>ITEM</u>	<u>AMOUNT/ACRE</u>
Land Charges	\$30.00
Insecticide Treatment on Corn & Sunflower Acres	\$ 9.45
Amortized Costs ⁵	
Three Year Rotation – 1,800 Acres	\$ 6.87
Four Year Rotation – 2,400 Acres	\$ 5.15

⁵ Amortization Cost For Dakota Lakes Research Farm

Items amortized include:

<u>Item</u>	<u>Value</u>
Semi-tractor	\$ 7,000
Grain trailer	\$15,300
Bins w/dryers	\$20,000
Grain Cart	<u>\$ 7,700</u>
TOTAL	\$50,000

Overhead costs include semi-tractor, grain trailer, grain cart, grain bins and Operation and Maintenance (O&M) cost of this equipment. Semi-tractor, trailer, and grain cart costs are amortized over 10 years and 10% interest. The cost of the grain bins and drying facilities are amortized over 20 years and 10% interest. The yearly amortized cost is then divided by the potential number of acres that could be farmed in a given rotation.

Semi-tractor, grain trailer, grain cart = \$30,000 O&M = \$3,000.
 Amortization Factor for 10 years @ 10% interest is .163.
 Yearly amount = \$7,890

Grain bins and drying facilities = \$20,000 O&M = \$2,141.
 Amortization Factor for 20 years @ 10% interest is .117.
 Yearly amount = \$4,481

Total Annual Amortized Cost for the above equipment = \$12,371

Prices used for income (1993-1997) calculations are as follows:

<u>Crop</u>	<u>\$/Unit</u>
Corn	2.00 per bushel
Winter Wheat	3.00 per bushel
Spring Wheat	3.20 per bushel
Flax	4.20 per bushel
Soybeans	5.00 per bushel
Field Peas	4.50 per bushel
Sunflower	9.00 per CWT
Popcorn	0.12 per pound
Chickpea	0.12 per pound
Lentils	0.14 per pound

Government Farm Program Benefits Were NOT Included As Income.