

Rotation: Winter Wheat - Corn - Cool Season Broadleaf				
Year	Winter Wheat	Corn	Flax/Chickpea	
1993	83	131	30	
1994	41	105	22	
1995	51	90	18	
1996	60	95	17	
1997	65	121	1650 ¹	
Average	60	110	22/1650 ¹	

¹ 1997 Broadleaf crop - lbs/ac

Сгор	Cost ²	Income	Profit
Wheat	\$130	\$80	\$50
Corn	\$178	\$219	\$41
Flax (1993-1996)	\$112	\$92	<\$20>
Chickpea (1997)	\$208	\$198	<\$10>
Rotation - FX/CP	\$140/172	\$164/199	\$24/27

 $^{\rm 2}$ Used 1997 production costs (except flax) for calculating 1993-1997 average profit per acre.

Rotation: Spring Wheat - Winter Wheat - Corn/Sorghum - Warm Season Broadleaf				
Year	Spring Wheat	Winter Wheat	Corn	Soybean/Sunflower
1993	69	72	120	33/1670
1994	32	41	120	28/950
1995	51	56	111	36/1700
1996	58	58	105	24/1698
1997	49	71	115	43/1912
Average	52	60	114	33/1586

Сгор	Cost ²	Income	Profit
Spring Wheat	\$112	\$167	\$55
Winter Wheat	\$113	\$180	\$47
Corn	\$182	\$228	\$46
Soybeans/Sunflowers	\$121/134	\$163/143	\$42/9
Rotation - SB/Sunflowers	\$137/145	\$185/180	\$48/35

 $^{\rm 2}$ Used 1997 production costs for calculating 1993-1997 average profit per acre.

Rotation: Winter Wheat - Warm Season Broadleaf - Corn/Sorghum - Cool Season Broadleaf				
Year	Winter Wheat	Soybean/Sunflower	Corn	Lentil/Field Pea ³
1993	54	41/1580	120	1150
1994	32	28/1050	65	1200
1995	60	32/1140	108	800

1996	58	24/2135	75	1000
1997	45	47/1960	142	0/42
Average	50	34/1573	101	830

³ Field peas in bu/ac

Сгор	Cost ²	Income	Profit
Winter Wheat	\$140	\$150	\$10
Soybean/Sunflower	\$151/161	\$171/142	\$20/<19>
Corn	\$149	\$204	\$55
Lentil	\$105	\$117	\$12
Rotation - SB/Sunflowers	\$136/143	\$161/173	\$25/10

² Used 1997 production costs for calculating 1993-1997 average profit per acre.

² 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: (Item amount/acre)

- Land Charges \$30.00
- Insecticide Treatment on Corn & Sunflower acres \$9.45
- Amortized Costs
- Three Year Rotation 1,800 acres \$6.87
- Four Year Rotation 2,400 acres

Amortization Cost for Dakota Lakes Research Farm

- Semi-tractor \$7,000
- Grain trailer \$15,300
- Bins with dryers \$20,000
- Grain Cart \$7,700
- 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:

- Corn \$2/bu
- Winter Whear \$3/bu
- Spring Wheat \$3.20/bu

- Flax \$4.20/buSoybeans \$5/bu
- Field Peas \$.50/bu
 Sunflower \$9/cwt
 Popcorn \$.12/lb

- Chickpea \$.12/lb
 Lentils \$.14/lb

Government Farm Program Benefits Were NOT Included As Income.