

# THOMPSON

# AGRICULTURE

# ALTERNATIVES

# 2009 REPORT

# ECONOMICS

During the growing season, careful financial records are kept for each experiment or system. This allows experiments to be evaluated economically as well as agronomically. An example of the income and cost sheets are shown in Tables 7-5-88 through 99.

On these sheets, the miscellaneous charge is based on Iowa Farm Business records. The manure cost is the spreading charge and it is prorated over the entire rotation. Seed cost is calculated using ISU's price/1,000 seed. The C-SB conventional crops are harvested with a combine, hauled to the elevator and stored about three months and sold at the first of year. Crops from the five year rotation are harvested and stored on the farm and fed to livestock (Table 7-2). The profits or losses from the livestock enterprises are not included in this analysis. Crop prices for both systems are ISU's (FM-1490) year end inventory prices. Herbicide and purchased fertilizer costs for the conventional system are taken from ISU estimated production costs (FM-1712). The number of field trips in the conventional system are determined by the number of field operations observed across the road in a neighbor's field.

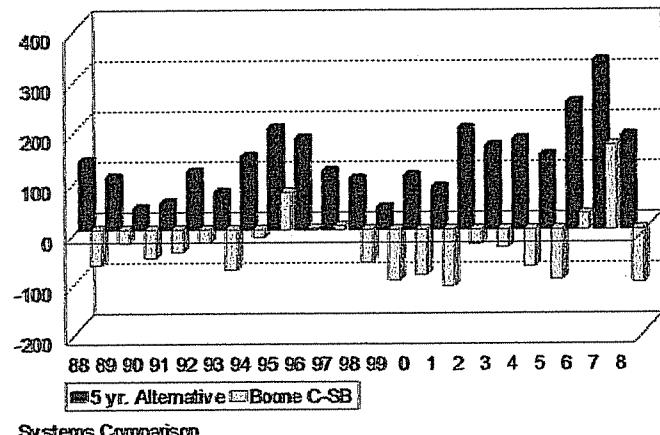
Cover crop costs include seed and machinery costs. ISU's (FM-1698) custom rates, which includes labor cost, are used for all machinery operations. The labor cost/return is computed at \$7.00 to \$8.00 per hour times field time taken from ISU PM-696 schedule. Twenty five percent is added to field time for travel to and from the field and for maintenance/repairs.

Labor and management return per acre for all crops is calculated using these figures. Labor and management return refers to any profit after all out of pocket costs are paid. The Boone County average cash rent per acre is used to determine the land charge. It should be noted that government subsidies are not included in any calculations made in this chapter.

**The reason for using ISU's calculated seed costs, custom machinery rates, year end inventory crop prices, and field time for machinery operations is to give the farmer some financial privacy. The farmer needs to reveal only the crop yields**

## Systems Comparison, \$/A.

L&M Return, no premiums or government



Systems Comparison

Figure 7-1

and machinery practices. The work sheet is easy and does not require a lot of time. This is an educational model to compare different farming systems rather than an exacting farm financial record. Most farmers will not share their farm financial records or income tax records.

Economic assessments were done for each of the four cropping systems (Table 7-6). The four systems are as follows: 1. Conventional (mulch) till corn and soybean rotation with broadcast fertilizer and herbicide, nitrogen side dressed (Lines 34-36). 2. Three year corn, soybean, oat/legume rotation, in narrow strips with ridge-tillage w/o herbicides, planter row

## Labor & Management Return \$/A.

Boone County C-SB vs. Thompson C-SB-C-O-H System

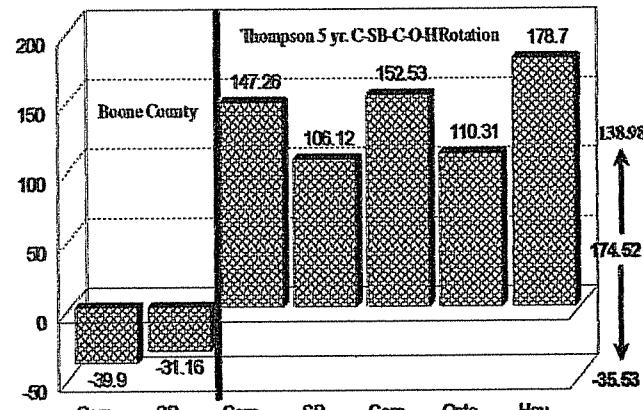


Fig 7-1a

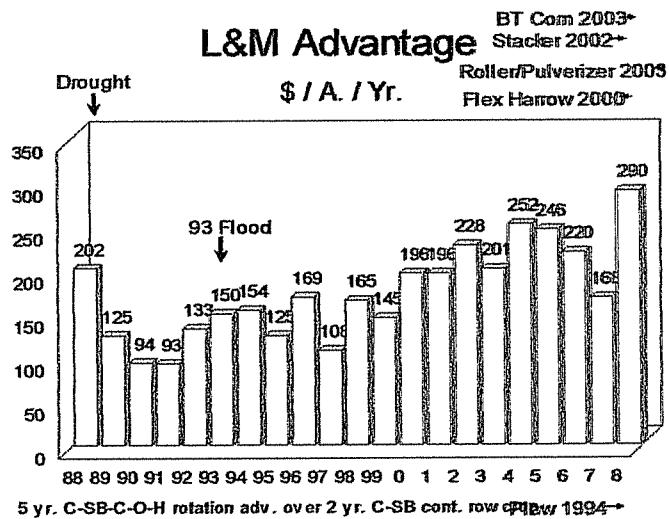


Figure 7-2

fertilizer and nitrogen side dressed (Lines 29-32). 3. Six year pasture rotation, ridge-till corn and soybeans, oats/legume crop. Ridge-tillage w/o herbicides during the corn and soybean year. Cattle spread the manure during the three years of intensive grazing (Lines 20-27) . 4. Five year corn, soybean, corn, oats/legume, hay rotation; with ridge-tillage w/o herbicides, manure/bio-solids. Planter row fertilizer used from 1989 through 1993 (Lines 4-12).

## Five-Year Rotation

The average labor and management returns since 1988 are displayed in tabular form by individual crop and systems in **Figure 7-1, 7-1a and Table 7-6**. **Government programs or premiums have not been included in any of the systems.** Labor and management returns per acre were \$138.98 for the five-year

## Labor & Management Return

1988-2008 No govt. prog. No premiums

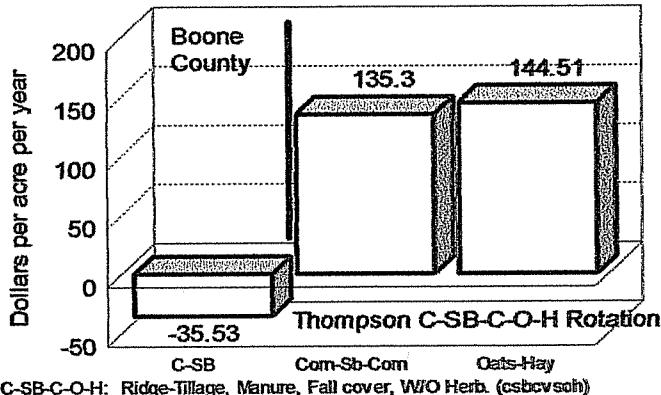


Figure 7-3

rotation. The conventional Boone County C-SB system lost \$35.53 per acre producing an average difference of **\$174.52** per acre.

The 5 year rotation advantage over the 2 year rotation are shown in **Figure 7-2**. We use the Boone county 2 year rotation dollar per acre net returns to tell us if we are making any progress. During the early years 1989-1992 our advantage was \$111 per acre and since 2000 the returns have increased \$104 to \$215 per acre. The dips in returns in 1990 were low oat prices, the dip in 1991 was caused by corn yield of 10 bushel below county average and only a 65 bushels per acre oat yield, the 1995 dip was from oat yield of only 5 bushel over county average and only 9000# hay per acre, the 1997 dip was a poor 8000# hay yield, the 1999 dip was from corn yields 17 bushels below county average and oat yield 5 bushel below county yield. The spread in 2002 were from 116 bushel oats at \$1.80, over 5000# oat straw and stubble hay, hay yield was over 14,000# per acre also. The record advantage of \$252 per acre in 2004 came about because of record corn yields and low corn price of \$1.65 per bushel for Boone County. Hay yields on the Thompson farm were the highest ever (15,126 pounds per acre) at \$75 per ton.

The five year rotation is the standard rotation used on the Thompson farm. It was used by Dick's father from 1918 to 1958, and then readopted by us ten years after we took over the farm. One adjustment was made to include ridge tillage during the row crop years. This has greatly increased the overall profitability.

## Labor & Management Return

Pasture Rotation

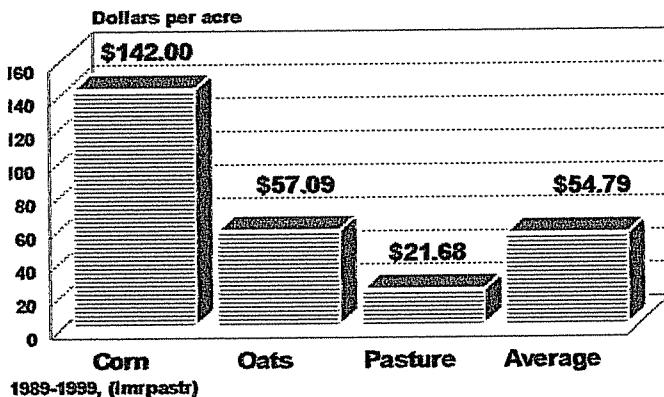


Figure 7-4

### Corn Harvest & Processing Costs (1992 wet) Conventional System

Elevator drying charge = \$0.024/point  
 $29\%-14\% = 15\% \times \$0.024 = \$0.36/\text{bu.}$   
 $164 \text{ bu./acre} \times \$0.36/\text{bu.} = \$59.04/\text{acre}$   
 Elevator "pencil shrink" = 1.4%/point  
 Actual moisture shrink = 1.18%/point  
 Extra shrink charge = 0.22%/point  
 $15 \text{ points} \times 0.22\%/\text{point} = 3.35\% \text{ loss}$   
 $164 \text{ bu./acre} \times 3.35\% = 5.49 \text{ bu./acre loss}$   
 $5.49 \text{ bu./acre} \times \$1.90/\text{bu.} = \$10.43/\text{acre}$   
 Priced later = \$0.05/bu. x 164 = \$8.20/acre  
 3 mo. storage  $164 \times \$0.10 = \$16.40/\text{acre}$   
 Grain delivery  $164 \times \$0.066 = \$10.82/\text{acre}$   
 Combine harvest = \$22.70/acre  
**Total conventional costs = \$127.59/acre**

### Alternative Ear Harvest & Processing

Ear harvest = \$17.10/acre  
 Ear delivery = \$18.04/acre  
 Crib drying costs = \$0.00/acre  
 Ear storage = \$15.09/acre  
 Shell/Grind = \$16.40/acre  
**Total alternative costs = \$66.63/acre**

**Ear Harvest Saved = \$60.96/acre**

Figure 7-5

Hay has been the leading money maker in this rotation. The labor and management return for hay is \$158.23 per acre, oats return is \$107.31 per acre, ridge till soybean return is \$97.89, ridge till corn following soybeans has a \$115.83 return, and corn following moldboard plowed hay is \$107.42 (Figure 7-1a & Table 7-6). The labor and management return for the oats, hay combination was \$132.77 per acre and the C-SB-C row crop part of the rotation was \$107.06 and Boone County C-SB return is a negative \$43.62 per acre. (Figure 7-3).

### Six/Eight Year Pasture Rotation

Four fields make up this rotation of corn, soybeans, oats, three-year meadow rotation. Of the four fields, two are intensively grazed each year. In 1991, 60 beef cows and their calves were pastured on 37 acres that was divided into six paddocks. Paddocks were grazed a total of 222 unit days. In addition, corn stalks and oat stubble were post-harvest grazed.

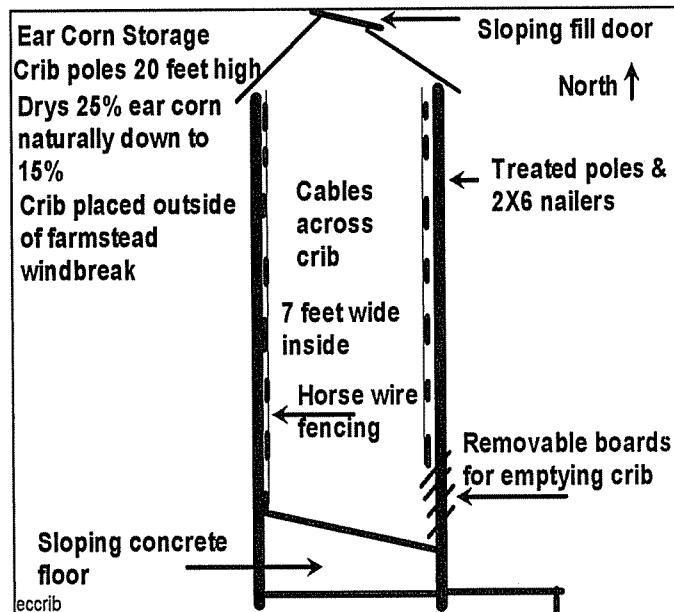
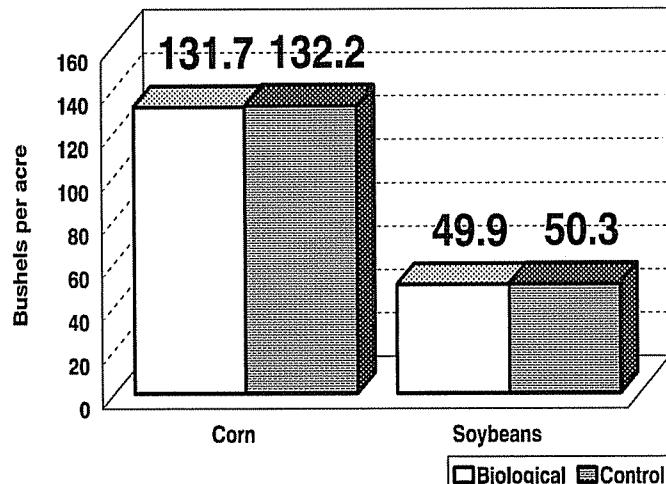


Figure 7-5a

Post harvest grazing greatly boosted the return for this rotation. The labor and management return for each of the crops from 1989 though 1999 are shown in (Figure 7-4 & Table 7-6). If the pastures feed the cows 50% of the year, then the pasture will receive 50% of the calf income and 50% of other cow costs. This is the only case where livestock income is used to determine crop income. In 1995, the soybeans were dropped from this rotation so we would have three pastures out of the four fields each year. The

## Yields, Biological Products

Practical Farmers of Iowa



42 trials, 1986-1994

Figure 7-6

rotation is now corn, oats/legume, and six years pasture.

## Corn Drying Costs

Corn drying cost is the other area where farmers need to save some money. In 1992 the corn did not dry down in the field and was harvested at 29% moisture. The conventional system using a combine to harvest the corn had an elevator drying cost of \$59.04 per acre (Figure 7-5). The additional pencil shrink over moisture shrink amounts to \$10.43 per acre. How to make these calculations are shown in Table 7-3 & 7-4. The priced later option cost \$8.20 per acre. Three months storage at the elevator is \$0.10 per bushel making storage cost \$16.40 per acre. Corn delivery for 164 bushels per acre times \$0.066 per bushel is \$10.82 per acre and combine custom rate is \$22.70 per acre. The total conventional harvest and processing costs are \$127.59 per acre.

The alternative ear corn picking system costs are shown in Figure 7-5. Ear harvest costs \$17.10 per acre, delivery to on farm wire crib storage is figured at \$0.11 per bushel making the cost \$18.04 per acre, and ear corn storage year rate in \$0.92 per bushel times 164 bushel yield equals \$15.09 per acre. Shelling or grinding costs are figured at \$0.10 per bushel or \$16.40 per acre. The total ear corn cost stored at 29% moisture in 1992 was \$66.63 per acre.

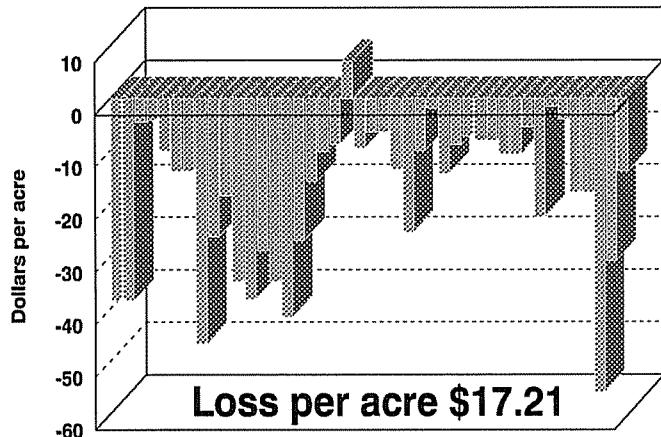
Processing corn in the ear saved \$60.96 per acre in the wet fall of 1992.

The wire crib shown in Figure 7-5a is 125 feet long, holds 8000 bushels of ear corn and was built in 1987. The erection cost was \$2.00 per bushel. In 1987 a skid was built to put under the wheels of the elevator. Elevator is backed onto the skid when we start filling the south end of crib. As the crib fills, the skid is pulled north moving the elevator sideways along the crib. There were problems keeping elevator wheels on the skid and keeping the top of the elevator in the center of the crib. **The skid broke apart in 1999, the wood planks and angle irons were saved for some other use. We did not build another skid, it works better without it, we just back tractor up to one wheel and pick it up slightly with three point, drag the other wheel and hook logchain from tractor loader frame diagonally across to lower end of elevator. The elevator moves easier and stays over the center of the crib. A bad situation turned out to be a good one.**

We have another ear corn crib built in 1952 that holds 5000 bushels and is inside the windbreak. This crib has fans and will store 25% ear corn. The overhead bins allows to keep some of our own shelled corn separate from purchased corn. This crib has been filled with ear corn every year since it was built. We have learned how to fill this crib so that rolls. A disadvantage to this method is that most of the corn falls in one spot. If the corn is too wet and lots of shelled corn to drop in one place, salt (KCL) potassium fertilizer can be dribbled in the ear corn as it is unloaded from the wagon. We fill the east side at the southend and grind out of northend first and the rolls and rolls into the grinder. When the corn stops rolling, we grind out of the southend. When all the corn stops rolling we push a 20 foot into the dragway from both ends. We grind out of this crib first, during the winter, inside the windbreak out of the wind and we don't have to fight the snow banks getting to the other crib. During the summer we grind out of the wire crib that is outside the wind-break.

## Biological Products

PFI, 42 trials, 13 farms, 1986-1994



biolpfi  
Figure 7-7

## Biological Products

During the years 1986 through 1994, 13 PFI cooperators completed 42 trials of many different kinds of biological products. All of the cooperators believed in the biological process and wanted the products to work. The results were two crop yield increases and five yield decreases. The average corn and soybean yields for both treatments are shown in **Figure 7-6**. **On the average, the biological products did not change the yield producing ability of the crop. The average economic loss in corn and soybean production for the biological products was \$17.21 per acre.** The treatment profit or loss per acre for each of the 42 trials is shown on **Table 7-1 & Figure 7-7**.

## Alternative System Analysis

**Table 7-2** explains the details between the alternative and conventional systems. The alternative (C-SB-C-O-H rotation) system yields are based on the actual yields from the Thompson farm. The conventional (C-SB rotation) system uses Boone county average corn and soybean yields (**Tables 5-1 5-2**). The alternative system has livestock to eat the hay and residues and the manure supplies the fertility for the crops. The profit or loss of the livestock is not included in these numbers.

**Tables 7-5-88 through 7-5-2002** show the income and costs for each crop. A summary of all this information is compiled on (**Table 7-6**). The alternative system has an average labor and management

## Labor & Management Return

Boone County C-SB vs. Thompson C-SB-C-O-H \$/A

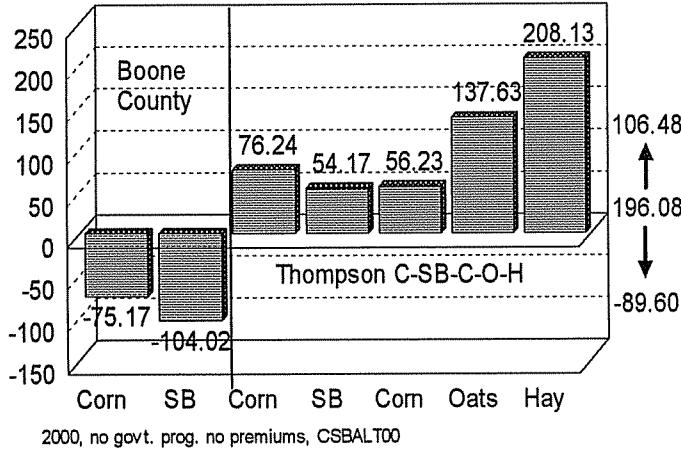


Figure 7-8

## Systems Expenses - 2000 - \$ per acre

Thompson C-SB-C-O-H vs. Boone County C-SB

	Thompson C-SB-C-O-H	Boone County C-SB	Thompson Advantage
Fertility	16.89	42.6	25.71
Weed mgt.	16.13	40.6	24.47
Tillage	6.09	20.42	14.33
Misc. Ins. Int.	8.03	19.86	11.83
Seed	19.34	24	4.66
Planting	8.8	9.35	0.55
Cover Crop	2.18	0	-2.18
Harvesting	112.55	57.99	-54.56
Land Charge	121	121	0
Totals	311.01	335.82	24.81

syssex00

Figure 7-9

return of \$110.01 since 1988 and the Boone County conventional system has a loss of \$42.24 per acre, a difference of \$152.25. The \$110.01 per acre alternative profit since 1988 times 300 acres = \$495,045.00. \$110.01 profit times 300 acres times forty year farmer's life span equals \$1,320,120.00. We rest our case.

The Thompson conventional C/SB trials for six years had an average loss of \$18.97 per acre (Line 36, Table 7-6).

**Table 7-7** shows the differences between the two systems for each year. In the conventional C/SB system the drought year of 1988 and the 1993 flood year had a loss of \$70.25 and \$78.83 per acre, low grain prices in 1999 and 2000 gave losses of

## Labor & Mgt. Return - 2000 - \$ Per Acre

Alt. C-SB-C-O-H \$106.48 vs Boone County C-SB \$(89.60)

Alt. C-SB-C-O-H	Alt. Inc. Adv.	Alt. Exp. Adv.	Alt. Labor Adv.	Alt. Total Adv.
Corn+Res.	147.35	-4.47	22.96	165.84
Sb+Res.	79.48	51.31	12.96	143.75
Corn+Res.	123.9	4.02	17.89	145.81
Oats+Res.	152.88	56.32	18.01	227.71
Hay	254.82	16.9	25.99	297.71
Average	151.68	24.82	19.56	196.06

LMR2000

Figure 7-10

\$100.85 and \$89.60 per acre. Improvement of corn and soybean prices in 1995 changed the losses to a positive \$66.90 per acre return. The two crop system shows more risk with variable weather and prices.

In **Table 7-8** we try to show which crops are responsible for the income improvement starting in 1993. Residues were collected from all row crops during the these years. The first year corn following hay showed the largest improvement of \$142.44 return since 1993. This corn crop had a very poor \$17.66 return in the 1988-1992 period. The fall manuring and moldboard plowing during the hay year started in 1992. The improvement for five year rotation was \$47.32 and the conventional change was a positive \$31.22 per acre for the later period. The average difference for the first years was \$129.34 and the last years was \$145.44 per acre favoring the alternative system.

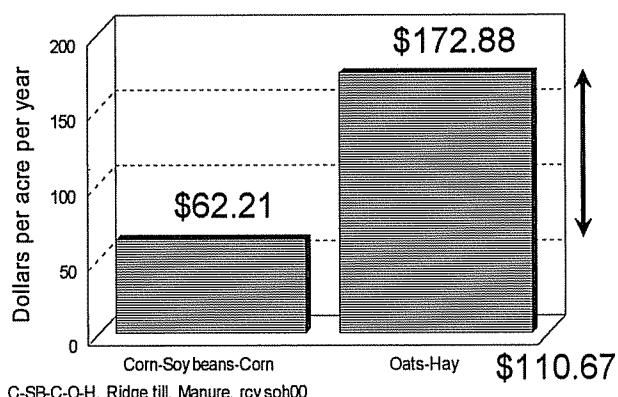
## 2000 Economics

We will try to explain the difference between the \$89.60 lost for conventional corn & soybeans to the positive alternative \$106.48 per acre for year 2000, a difference of \$196.08 per acre (**Table 7-5-2000 & Figure 7-8**).

**Table 7-9 & Figures 7-9** show manure spreading cost (\$16.89) is **\$25.71** per acre less than purchasing fertilizers (\$42.60). Weed management cost was **\$24.47** less because of the alternative ridge till without herbicides and no weed control cost during the oat and hay years. **The \$24.47 per acre weed management savings times 300 acres times 40 years equals \$293,520.00 savings on just weed management during a farmers life time.** Tillage cost for the alternative 5 year rotation is \$14.33 per acre less because of ridge tillage and very little tillage for the oats and hay crops. The miscellaneous, insurance and interest costs are \$11.83 less per acre for the alternative system because less purchased inputs and lower risk crops. Seed costs are \$4.67 less per acre for alternative system. Planting costs are about the same for the two systems. Cover crops used in the alternative system costs \$2.28 more per acre. Harvesting hay and residues in the oat, corn and soybean crops costs \$54.56 more per acre than the corn-soybean rotation. The land charge is the same for both systems. The alternative systems saves **\$24.81** per acre in expenses.

## 2000 Labor & Management Return

Thompson Rotation



**Figure 7-11**

The income advantages for the alternative system compared to corn/soybean income for the year 2000 are as follows (**Table 7-9 & Figure 7-10**). Corn grain plus residues that follow hay increased income by \$147.33 per acre. Soybeans including residues increased income by \$79.48 per acre. Corn grain plus residues that follow soybeans increased income by \$123.90 per acre. Oats plus the straw and stubble cutting increased income by \$152.88 per acre. Hay had the highest income advantage of \$254.82 per acre, 6.5 tons per acre at a good price. Average income advantage for alternative system was **\$151.68** per acre.

The alternative system uses more labor to haul manure and make hay all summer, therefore, returning **\$19.56** per acre to pay yourself more wages. The hay crop requires the most labor and has a \$25.99 per acre advantage while the soybeans require the least labor with \$12.96 advantage. When we add the \$24.81 expense savings to the increased income figure of \$151.68 plus the additional labor income of \$19.56 this all adds up to **\$196.06** per acre advantage for the alternative five year rotation. Saving on costs and adding value with the residues make this happen. All these extra charges (little foxes) end up to be a large cost (a big fox in the hen house). Raising soybeans once in five years in the alternative system produced a 20 bushel yield advantage in the year 2000. There is less risk in a more diversified system which uses more labor and less capital.

During the year 2000, the oat/hay part of the

alternative system average return was \$172.88 per acre (\$137.63 from oats and \$208.13 from hay), while the three years of row crops in the alternative system returned \$62.21 per acre (\$76.24 & 56.23 from corn and \$54.17 from soybeans). These numbers are found in **Table 7-6, column N & Figure 7-11**. The largest difference of \$110.67 favoring the oat/hay combination since 1988. During the drought in 1988, the oat/hay advantage over row crops was \$150.92 per acre (**Table 7-6, column B**).

**Table 7-10 & Figure 7-12** compares Boone County custom rates, Thompson Farm custom rates, and ISU Iowa fixed and variable costs in dollars per acre.

**Table 7-11** compares the cost per bushel for each field or crop during each year. The selling price is listed also for each crop for each year. Boone County 2000 soybean production costs per bushel were \$7.52 while the alternative system soybeans cost was \$4.40, a difference of \$3.12 per bushel.

Boone County 2000 corn production costs is \$2.40 per bushel while alternative corn is \$1.89 and \$2.04 per bushel.

Alternative 2000 oats production costs were \$2.09 per bushel, selling price was \$1.20 which looses \$0.89 per bushel when excluding the straw and stubble costs and income. This proves the need for added value from straw and hay stubble production.

Hay production costs for 2000 were \$48.71 per ton, selling price was \$75.00 leaving \$26.29 per ton profit (**Table 7-12**).

Harvesting cornstalks during 2000 had a \$24.40 per ton positive margin or \$51.53 profit per acre. (**Table 7-13**). 2000 Soybean residue had a \$21.51 per ton positive margin or \$16.15 profit per acre. (**Table 7-14**).

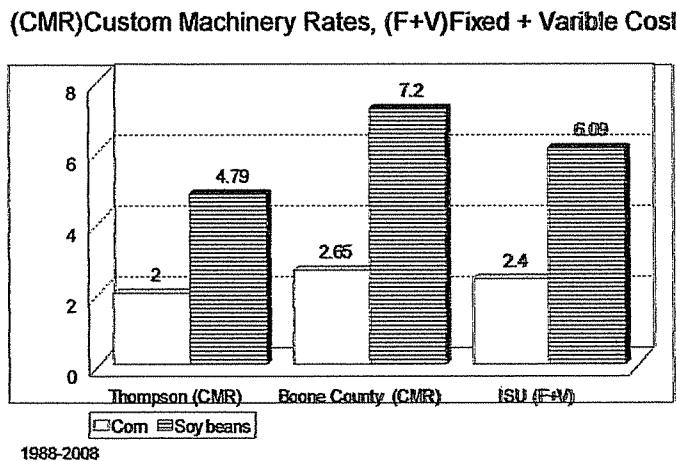
## 2009 Economic Update

**Table 7-15** helps to explain where the dollar per acre advantage for the 5 year rotation over the two year rotation. The advantages are divided in the per acre income, expenses, and labor, for the two farming systems. Since 2000, seventy percent of the 5 year rotation advantage comes from the higher gross income. Lower expenses in the 5 year rotation give a twenty percent advantage. More working hours in the 5 year rotation gives the last ten percent advantage.

During the 1988-2000 period, our advantage was \$139 per acre per year, since 2000 our advantage has been \$222 per acre over the 2 year corn and soybean rotation.

Stay tune.

## Costs per bushel



**Figure 7-12**

## PFIBIOL

A	B	C	D	E	F	G	H	I
1	PRACTICAL FARMERS OF IOWA							
2	Testing of Biological Products							
3	* Significant yield difference							
4	Year	Cooperator	Biological Product	Biological Yield	Control Yield	*	Biological	
5			or Program	Corn	Soybeans	Corn	Soybeans	Benefit
6				Bu./A.	Bu./A.	Bu./A.	Bu./A.	\$/A.
7	1991	Leazer	15-9-2-17S+MI	101.80		102.20		-38.50
8	1991	Mays	15-9-2-17S+MI	132.40		131.30		-38.50
9	1991	Lubben	ACA-zinc acetate	146.20		147.90		-4.56
10	1994	Lubben	ACA-zinc acetate		62.70		62.80	-4.14
11	1993	Stonecypher	Achieve	60.60		62.90		-10.00
12	1994	Stock	Achieve & Remedy	159.50		160.50		-13.85
13	1994	Stock	Achieve & Remedy		54.00		53.00	-13.85
14	1990	Leazer	GroZyme	108.60		116.60	*	-46.86
15	1990	Hermanson	Agrienergy	111.60		109.80		-26.35
16	1991	Hermanson	Agrienergy		48.80		47.80	-18.67
17	1992	Hermanson	Agrienergy	198.00		198.80		-34.88
18	1991	Wurpts	Agrienergy		31.70		31.30	-28.97
19	1992	Wurpts	Agrienergy	180.60		177.60		-34.89
20	1992	Wurpts	Agrienergy		47.90		48.30	-41.69
21	1993	Wurpts	Agrienergy	101.30		100.40		-27.01
22	1993	Wurpts	Agrienergy		30.90		31.10	-15.91
23	1994	Wurpts	Agrienergy	184.70		187.30		-10.11
24	1994	Wurpts	Agrienergy		60.60		60.30	-8.75
25	1986	Thompson	Agri Grow	121.10		116.10	*	7.11
26	1986	Thompson	Agri Grow	138.40		137.20		-9.50
27	1986	Thompson	Agri Grow		51.10		50.30	-6.50
28	1986	Thompson	Agri Grow		46.00		46.60	-6.50
29	1991	Carlson	Arouse	93.50		91.20		-13.65
30	1990	Reicherts	Bio Soil Inc.	158.10		156.70		-25.58
31	1991	Lubben	Biomix+Pepzyme	132.80		135.20		-10.00
32	1991	Lubben	Biomix+Pepzyme		51.70		50.00	*
33	1991	Leazer	Bioroot Plus	107.40		106.60		-14.40
34	1992	Leazer	Bioroot Plus	140.60		137.40		-8.90
35	1991	Mays	Bioroot		54.80		56.30	-7.20
36	1989	Lubben	GroZyme	151.40		149.90		-8.00
37	1990	Lubben	GroZyme		53.50		53.20	-8.00
38	1994	Olson	GroZyme/Agri-SC		63.90		65.00	-10.76
39	1994	Olson	GroZyme/Agri-SC	165.20		164.00		-10.76
40	1990	Carlson	Micronutrients	131.80		130.50		-5.50
41	1989	Carlson	Molasses	123.00		132.20	*	-22.70
42	1989	Lubben	Molasses	137.50		138.00		-1.60
43	1990	Lubben	Molasses		53.50		53.90	-4.00
44	1988	Broders	P3K	99.60		97.40		-18.00
45	1988	Broders	P3K	79.60		82.60		-18.00
46	1990	Lubben	Trans-national	157.60		166.20	*	-56.04
47	1991	Lubben	Trans-national		47.60		50.90	*
48	1990	Bumgarner	Triple Noctin-L		39.00		44.20	*
49								
50			Average Corn	131.65		132.17		-19.27
51			Average Soybeans		49.86		50.31	-13.85
52			Corn & SB average					-17.21
53								
54								

Table 7-1

A	B	C
<b>1      Boone County</b>		<b>Thompson Farm</b>
<b>2      Systems Comparison: No premiums or government payment, ISU survey of custom rates and Boone County cash rent.</b>		
<b>3      ISU closing inventory prices (exception, C &amp; Sb residues @ \$50.00 per ton), crops sold to elevator or livestock enterprise.</b>		
<b>4      Miscellaneous expenses from Iowa Farm Business Assoc.</b>		
<b>5</b>		
<b>6      Conventional C-SB Rotation</b>		<b>Alternative Farm Systems C-SB-C-O-H Rotation</b>
<b>7</b>	Tillage	
<b>8      Mulch Tillage</b>		Rotational tillage: moldboard plow, chisel with sweeps, disk, ridge -till
<b>9</b>		
<b>10     Weed Control</b>		Early Expression of cover, ridge-till planter, rotary hoe, cultivator, no herbicides
<b>11     Broadcast herbicides, cultivator</b>		
<b>12</b>		
<b>13     Fertilizers</b>		Manure/Biosolids, \$1.00 per wet ton spreading charge, cost pro-rated depending on crop usage.
<b>14     Purchased NPK</b>		
<b>15</b>		
<b>16     Fall Cover Crops</b>		Two rows rye on the ridge after corn harvest Broadcast oats at soybean leaf yellow Dribble rye while moldboard plowing Hay legume/grass mix seeded with the oat crop
<b>17     None</b>		
<b>18</b>		
<b>19</b>		
<b>20</b>		
<b>21     Corn Harvest</b>		
<b>22     Combined and dried at elevator</b>		Picked as ear corn and dried naturally
<b>23     Crop Insurance</b>		75% coverage C&SB, none on oats or hay
<b>24     All crops</b>		
<b>25     Interest</b>		
<b>26     Borrowed money, 9.5-12% for 8 months</b>		Borrowed money, 9.5-12% for 8 months
<b>27     Marketing</b>		
<b>28     Delivery - \$0.066 per bushel</b>		<b>Hauling on farm</b>
<b>29     Drying corn 6 points @ .025 = \$ 0.15 per bushel</b>		Ear Corn - \$0.11 per bushel
<b>30     Hedge/priced later - \$0.04 per bushel</b>		Oats & Soybeans - \$0.041, Auger - \$0.036 per bushel
<b>31     Storage (3 months) - \$0.10 per bushel</b>		Hay, straw and stalks - \$2.00 per ton
<b>32     Corn (real shrink loss) - \$0.03 per bushel</b>		<b>Storage on farm per year</b>
<b>33</b>		Ear Corn - \$0.092 per bushel
<b>34</b>		Oats & Soybeans - \$0.114 per bushel
<b>35</b>		Hay - \$2.00 per ton
<b>36</b>		Shell/Grind - \$0.10 per bushel

A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Real Shrink Loss (RSL) beyond moisture loss.												
2	Combine corn at 29.25% and 21% moisture, the elevator will pencil shrink to 15% at 1.4% per point.												
3	The actual moisture removed is 1.176471% per point, a real shrink loss (RSL) of .2236% per point.												
4	(MR) is moisture removed, (DC) is drying cost, (PL) is priced later and (TC) is total cost.												
5													
6													
7	MR pts.	RSL/pt. %	RSL/bu.	Price	RSL\$/bu.	Yield	RSL\$/A.	DC\$/pt.	DC\$/bu.	DC \$/A.	PL \$/bu.	Stor. \$/bu.	TC\$/bu.
8	14	0.2236	3.13%	2.50	0.07826	170	13.30	0.025	0.35	59.50	0.04	0.10	0.57
9	14	0.2236	3.13%	2.50	0.07826	150	11.74	0.025	0.35	52.50	0.04	0.10	0.57
10	14	0.2236	3.13%	2.50	0.07826	130	10.17	0.025	0.35	45.50	0.04	0.10	0.57
11	14	0.2236	3.13%	2.50	0.07826	110	8.61	0.025	0.35	38.50	0.04	0.10	0.57
12	14	0.2236	3.13%	2.25	0.070434	170	11.97	0.025	0.35	59.50	0.04	0.10	0.56
13	14	0.2236	3.13%	2.25	0.070434	150	10.57	0.025	0.35	52.50	0.04	0.10	0.56
14	14	0.2236	3.13%	2.25	0.070434	130	9.16	0.025	0.35	45.50	0.04	0.10	0.56
15	14	0.2236	3.13%	2.25	0.070434	110	7.75	0.025	0.35	38.50	0.04	0.10	0.56
16	14	0.2236	3.13%	2.00	0.062608	170	10.64	0.025	0.35	59.50	0.04	0.10	0.55
17	14	0.2236	3.13%	2.00	0.062608	150	9.39	0.025	0.35	52.50	0.04	0.10	0.55
18	14	0.2236	3.13%	2.00	0.062608	130	8.14	0.025	0.35	45.50	0.04	0.10	0.55
19	14	0.2236	3.13%	2.00	0.062608	110	6.89	0.025	0.35	38.50	0.04	0.10	0.55
20	14	0.2236	3.13%	1.90	0.059478	170	10.11	0.025	0.35	59.50	0.04	0.10	0.55
21	14	0.2236	3.13%	1.90	0.059478	150	8.92	0.025	0.35	52.50	0.04	0.10	0.55
22	14	0.2236	3.13%	1.90	0.059478	130	7.73	0.025	0.35	45.50	0.04	0.10	0.55
23	14	0.2236	3.13%	1.90	0.059478	110	6.54	0.025	0.35	38.50	0.04	0.10	0.55
24	10	0.2236	2.24%	2.50	0.0559	170	9.50	0.025	0.25	42.50	0.04	0.10	0.45
25	10	0.2236	2.24%	2.50	0.0559	150	8.39	0.025	0.25	37.50	0.04	0.10	0.45
26	10	0.2236	2.24%	2.50	0.0559	130	7.27	0.025	0.25	32.50	0.04	0.10	0.45
27	10	0.2236	2.24%	2.50	0.0559	110	6.15	0.025	0.25	27.50	0.04	0.10	0.45
28	10	0.2236	2.24%	2.25	0.05031	170	8.55	0.025	0.25	42.50	0.04	0.10	0.44
29	10	0.2236	2.24%	2.25	0.05031	150	7.55	0.025	0.25	37.50	0.04	0.10	0.44
30	10	0.2236	2.24%	2.25	0.05031	130	6.54	0.025	0.25	32.50	0.04	0.10	0.44
31	10	0.2236	2.24%	2.25	0.05031	110	5.53	0.025	0.25	27.50	0.04	0.10	0.43
32	10	0.2236	2.24%	2.00	0.04472	170	7.60	0.025	0.25	42.50	0.04	0.10	0.43
33	10	0.2236	2.24%	2.00	0.04472	150	6.71	0.025	0.25	37.50	0.04	0.10	0.43
34	10	0.2236	2.24%	2.00	0.04472	130	5.81	0.025	0.25	32.50	0.04	0.10	0.43
35	10	0.2236	2.24%	2.00	0.04472	110	4.92	0.025	0.25	27.50	0.04	0.10	0.43
36	10	0.2236	2.24%	1.90	0.042484	170	7.22	0.025	0.25	42.50	0.04	0.10	0.43
37	10	0.2236	2.24%	1.90	0.042484	150	6.37	0.025	0.25	37.50	0.04	0.10	0.43
38	10	0.2236	2.24%	1.90	0.042484	130	5.52	0.025	0.25	32.50	0.04	0.10	0.43
39	10	0.2236	2.24%	1.90	0.042484	110	4.67	0.025	0.25	27.50	0.04	0.10	0.43

Table 7-3

A	B	C	D	E	F	G	H	I	J	K	L	M	N
41	Real Shrink Loss (RSL <sub>b</sub> ) beyond moisture loss.												
42	Combine corn at 29, 25 and 21% moisture, the elevator will pencil shrink to 15% at 1.4% per point.												
43	The actual moisture removed is 1.176471% per point, a real shrink loss (RSL) of .2236% per point.												
44	(MR) is moisture removed, (DC) is drying cost, (PL) is priced later and (TC) is total cost.												
45													
46													
47	MR pts.	RSL/pt. %	RSL/bu.	Price	RSL\$/bu.	Yield	RSL\$/A.	DC\$/pt.	DC\$/bu.	DC \$/A.	PL \$/bu.	Stor.\$/bu.	TC\$/A.
48	6	0.2236	1.34%	2.50	0.0335	170	5.70	0.025	0.15	25.50	0.04	0.10	0.32
49	6	0.2236	1.34%	2.50	0.0335	150	5.03	0.025	0.15	22.50	0.04	0.10	0.32
50	6	0.2236	1.34%	2.50	0.0335	130	4.36	0.025	0.15	19.50	0.04	0.10	0.32
51	6	0.2236	1.34%	2.50	0.0335	110	3.69	0.025	0.15	16.50	0.04	0.10	0.32
52	6	0.2236	1.34%	2.25	0.03015	170	5.13	0.025	0.15	25.50	0.04	0.10	0.32
53	6	0.2236	1.34%	2.25	0.03015	150	4.52	0.025	0.15	22.50	0.04	0.10	0.32
54	6	0.2236	1.34%	2.25	0.03015	130	3.92	0.025	0.15	19.50	0.04	0.10	0.32
55	6	0.2236	1.34%	2.25	0.03015	110	3.32	0.025	0.15	16.50	0.04	0.10	0.32
56	6	0.2236	1.34%	2.00	0.0268	170	4.56	0.025	0.15	25.50	0.04	0.10	0.32
57	6	0.2236	1.34%	2.00	0.0268	150	4.02	0.025	0.15	22.50	0.04	0.10	0.32
58	6	0.2236	1.34%	2.00	0.0268	130	3.48	0.025	0.15	19.50	0.04	0.10	0.32
59	6	0.2236	1.34%	2.00	0.0268	110	2.95	0.025	0.15	16.50	0.04	0.10	0.32
60	6	0.2236	1.34%	1.90	0.02546	170	4.33	0.025	0.15	25.50	0.04	0.10	0.32
61	6	0.2236	1.34%	1.90	0.02546	150	3.82	0.025	0.15	22.50	0.04	0.10	0.32
62	6	0.2236	1.34%	1.90	0.02546	130	3.31	0.025	0.15	19.50	0.04	0.10	0.32
63	6	0.2236	1.34%	1.90	0.02546	110	2.80	0.025	0.15	16.50	0.04	0.10	0.32
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Table 7-4

	A	B	C	D	E	F	G	H
1	Name of trial			Thompson Farm - 1988			Boone	Boone
2	Field/Plot No.	4CD	2	1	3	5	County	County
3	Crop	Corn	SB	Corn	Oats	Hay	Corn	SB
4	Yield per acre	111.39	41.45	116.63	142.50	9344	87.10	24.00
5	Price	2.30	7.20	2.30	2.30	0.0400	2.30	7.20
6	Crop income	256.20	298.44	268.25	327.75	373.76	200.33	172.80
7	Straw income	0.00	0.00	0.00	64.28	0.00	0.00	0.00
8	Stubble income	0.00	0.00	0.00	78.00	0.00	0.00	0.00
9	Residue income	0.00	0.00	56.25	0.00	0.00	0.00	0.00
10	Total Income	256.20	298.44	324.50	470.03	373.76	200.33	172.80
11	Expenses							
12	Misc.	10.00	10.00	10.00	5.00	5.00	10.00	10.00
13	Crop Ins.	4.13	5.10	4.13	0.00	0.00	5.50	6.80
14	Interest	4.92	3.68	4.48	2.26	2.22	8.38	6.03
15	Land Charge	93.00	93.00	93.00	93.00	93.00	93.00	93.00
16	Cover crop	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	Chop Stalks	0.00	5.10	0.00	0.00	0.00	0.00	0.00
18	Apply NH4	0.00	0.00	0.00	0.00	0.00	5.30	0.00
19	Fall tillage	16.70	0.00	0.00	0.00	0.00	0.00	14.40
20	Spring tillage	0.00	0.00	0.00	14.60	0.00	11.00	17.00
21	Manure Charge	17.73	13.51	17.73	13.51	21.96	0.00	0.00
22	Purch. Fert.	7.20	0.00	16.12	14.38	8.19	45.70	25.20
23	Herbicides	0.00	0.00	0.00	0.00	0.00	17.30	15.55
24	Seed	21.60	14.00	21.60	16.00	13.00	21.60	12.00
25	Planting	9.80	9.80	9.80	3.10	3.10	6.80	6.80
26	Rotary Hoe	7.00	7.00	7.00	0.00	0.00	0.00	0.00
27	Spray	0.00	0.00	0.00	0.00	0.00	3.50	3.50
28	Cultivation	15.80	15.80	15.80	0.00	0.00	4.70	9.40
29	Windrow Oats	0.00	0.00	0.00	7.20	0.00	0.00	0.00
30	Bale Straw	0.00	0.00	0.00	15.04	0.00	0.00	0.00
31	Bale Stubble	0.00	0.00	0.00	9.59	0.00	0.00	0.00
32	Mow	0.00	0.00	0.00	7.30	21.90	0.00	0.00
33	Rake	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	Bale Hay	0.00	0.00	0.00	0.00	30.43	0.00	0.00
35	Bale Residues	0.00	0.00	22.50	0.00	0.00	0.00	0.00
36	Moving bales	0.00	0.00	2.25	4.09	9.34	0.00	0.00
37	Grain Harvest	16.20	20.60	16.20	18.30	0.00	22.00	20.60
38	Grain Delivery	12.25	3.03	12.83	10.40	0.00	5.75	1.58
39	Shell/Grind	11.14	0.00	11.66	0.00	0.00	0.00	0.00
40	Storage	10.25	4.73	10.73	16.25	4.67	8.71	2.40
41	Hedge/P.L.	0.00	0.00	0.00	0.00	0.00	3.48	0.96
42	Drying cost	0.00	0.00	0.00	0.00	0.00	13.07	0.00
43	Corn RSL	0.00	0.00	0.00	0.00	0.00	2.61	0.00
44	Total Exp.	257.72	205.35	275.83	250.02	212.81	288.40	245.22
45	Cost/bu. or pound	2.31	4.95	2.15	1.50	0.0228	3.31	10.22
46	Labor Return	27.54	19.02	27.89	28.01	35.99	9.87	10.12
47	Labor&M.R. \$/A.	26.02	112.11	76.56	248.02	196.94	-78.20	-62.30
48	Systems Avg.			131.93			-70.25	

	A	B	C	D	E	F	G	H
1	Name of trial				Thompson Farm - 1989		Boone	Boone
2	Field/Plot No.	5	4CD	2	1	3	County	County
3	Crop	Corn	SB	Corn	Oats	Hay	Corn	SB
4	Yield per acre	113.30	54.34	145.40	135.78	11360	130.50	41.50
5	Price	2.20	5.50	2.20	1.40	0.0350	2.20	5.50
6	Crop income	249.26	298.87	319.88	190.09	397.60	287.10	228.25
7	Straw income	0.00	0.00	0.00	84.15	0.00	0.00	0.00
8	Stubble income	0.00	0.00	0.00	70.00	0.00	0.00	0.00
9	Residue income	0.00	0.00	56.25	0.00	0.00	0.00	0.00
10	Total Income	249.26	298.87	376.13	344.24	397.60	287.10	228.25
11	Expenses							
12	Misc.	10.00	10.00	10.00	5.00	5.00	10.00	10.00
13	Crop Ins.	4.54	5.63	4.54	0.00	0.00	6.05	7.50
14	Interest	5.14	3.84	4.68	2.36	2.31	9.39	6.74
15	Land Charge	104.00	104.00	104.00	104.00	104.00	104.00	104.00
16	Cover crop	0.00	9.50	0.00	0.00	0.00	0.00	0.00
17	Chop Stalks	0.00	5.40	0.00	0.00	0.00	0.00	5.40
18	Apply NH4	0.00	0.00	0.00	0.00	0.00	24.00	0.00
19	Fall tillage	14.00	0.00	0.00	0.00	0.00	0.00	17.65
20	Spring tillage	12.00	7.90	0.00	6.00	6.00	13.70	20.75
21	Manure Charge	12.00	12.00	12.00	12.00	12.00	0.00	0.00
22	Purch. Fert.	11.79	0.00	11.79	18.33	18.33	18.33	18.33
23	Herbicides	0.00	0.00	0.00	0.00	0.00	21.00	21.00
24	Seed	24.03	14.00	24.03	12.75	12.94	24.03	14.00
25	Planting	10.20	10.20	10.20	4.20	4.20	7.75	7.75
26	Rotary Hoe	7.40	14.80	7.40	0.00	0.00	0.00	0.00
27	Spray	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	Cultivation	15.80	15.80	15.80	0.00	0.00	4.80	9.60
29	Windrow Oats	0.00	0.00	0.00	7.30	0.00	0.00	0.00
30	Bale Straw	0.00	0.00	0.00	13.02	0.00	0.00	0.00
31	Bale Stubble	0.00	0.00	0.00	10.00	0.00	0.00	0.00
32	Mow	0.00	0.00	0.00	7.10	15.00	0.00	0.00
33	Rake	0.00	0.00	0.00	0.00	9.30	0.00	0.00
34	Bale Hay	0.00	0.00	0.00	0.00	36.62	0.00	0.00
35	Bale Residues	0.00	0.00	22.50	0.00	0.00	0.00	0.00
36	Moving bales	0.00	0.00	2.25	5.37	11.36	0.00	0.00
37	Grain Harvest	16.80	20.80	16.80	18.50	0.00	22.10	20.80
38	Grain Delivery	12.46	4.18	11.20	10.46	0.00	8.61	2.74
39	Shell/Grind	11.33	0.00	14.54	0.00	0.00	0.00	0.00
40	Storage	10.42	6.19	13.38	15.48	5.68	13.05	4.15
41	Hedge/P.L.	0.00	0.00	0.00	0.00	0.00	5.22	1.66
42	Drying cost	0.00	0.00	0.00	0.00	0.00	19.58	0.00
43	Corn RSL	0.00	0.00	0.00	0.00	0.00	3.92	0.00
44	Total Exp.	281.91	244.24	285.11	251.87	242.74	315.53	272.07
45	Cost/bu. or pound	2.49	4.49	1.79	1.59	0.0214	2.42	6.56
46	Labor Return	27.54	19.02	22.47	28.01	35.99	9.87	10.12
47	Labor&M.R. \$/A.	-5.11	73.65	113.49	120.38	190.85	-18.56	-33.70
48	Systems Avg.				98.65		-26.13	

	A	B	C	D	E	F	G	H
1	Name of trial				Thompson Farm - 1990		Boone	Boone
2	Field/Plot No.	3	5	4CD	2	1	County	County
3	Crop	Corn	SB	Corn	Oats	Hay	Corn	SB
4	Yield per acre	135.19	48.55	131.09	92.64	10400	118.80	39.80
5	Price	2.05	5.70	2.05	1.10	0.0300	2.05	5.70
6	Crop income	277.14	276.74	268.73	101.90	312.00	243.54	226.86
7	Straw income	0.00	0.00	0.00	70.00	0.00	0.00	0.00
8	Stubble income	0.00	0.00	0.00	60.00	0.00	0.00	0.00
9	Residue income	0.00	0.00	56.25	0.00	0.00	0.00	0.00
10	Total Income	277.14	276.74	324.98	231.90	312.00	243.54	226.86
11	Expenses							
12	Misc.	10.00	10.00	10.00	5.00	5.00	10.00	10.00
13	Crop Ins.	4.54	5.63	4.54	0.00	0.00	6.05	7.50
14	Interest	4.71	3.52	4.29	2.16	2.12	8.83	6.22
15	Land Charge	108.00	108.00	108.00	108.00	108.00	108.00	108.00
16	Cover crop	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	Chop Stalks	0.00	5.40	0.00	0.00	0.00	0.00	5.40
18	Apply NH4	0.00	0.00	0.00	0.00	0.00	24.00	0.00
19	Fall tillage	13.56	0.00	0.00	0.00	0.00	0.00	17.65
20	Spring tillage	12.00	0.00	0.00	5.99	5.99	13.70	20.75
21	Manure Charge	17.73	13.51	17.73	13.51	21.96	0.00	0.00
22	Purch. Fert.	40.68	0.00	16.83	18.20	18.20	18.20	18.20
23	Herbicides	0.00	0.00	0.00	0.00	0.00	25.00	25.00
24	Seed	24.03	14.00	24.03	10.00	12.94	24.03	14.00
25	Planting	10.10	10.10	10.10	4.20	4.20	8.05	8.05
26	Rotary Hoe	3.70	7.40	7.40	0.00	0.00	0.00	0.00
27	Spray	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	Cultivation	21.30	14.20	14.20	0.00	0.00	9.60	9.60
29	Windrow Oats	0.00	0.00	0.00	7.40	0.00	0.00	0.00
30	Bale Straw	0.00	0.00	0.00	16.80	0.00	0.00	0.00
31	Bale Stubble	0.00	0.00	0.00	10.00	0.00	0.00	0.00
32	Mow	0.00	0.00	0.00	5.10	15.30	0.00	0.00
33	Rake	0.00	0.00	0.00	3.40	10.20	0.00	0.00
34	Bale Hay	0.00	0.00	0.00	0.00	42.47	0.00	0.00
35	Bale Residues	0.00	0.00	22.50	0.00	0.00	0.00	0.00
36	Moving bales	0.00	0.00	2.25	4.80	11.40	0.00	0.00
37	Grain Harvest	18.70	21.20	18.70	19.10	0.00	22.20	21.20
38	Grain Delivery	14.87	8.59	14.42	7.13	0.00	7.84	2.63
39	Shell/Grind	13.52	0.00	13.11	0.00	0.00	0.00	0.00
40	Storage	12.44	5.53	12.06	8.52	5.70	11.88	3.98
41	Hedge/P.L.	0.00	0.00	0.00	0.00	0.00	4.75	1.59
42	Drying cost	0.00	0.00	0.00	0.00	0.00	17.82	0.00
43	Corn RSL	0.00	0.00	0.00	0.00	0.00	3.56	0.00
44	Total Exp.	329.88	227.08	300.16	249.31	263.48	323.51	279.77
45	Cost/bu. or pound	2.44	4.68	2.10	2.26	0.0253	2.72	7.03
46	Labor Return	27.54	19.02	22.47	28.01	35.99	9.87	10.12
47	Labor&M.R. \$/A.	-25.20	68.68	47.29	10.60	84.51	-70.10	-42.79
48	Systems Avg.			37.18			-56.45	

## Ec91-6.xls

	A	B	C	D	E	F	G	H
1	Name of trial				Thompson Farm - 1991		Boone	Boone
2	Field/Plot No.	1	3	5	4CD	2	County	County
3	Crop	Corn	SB	Corn	Oats	Hay	Corn	SB
4	Yield per acre	113.14	52.96	123.17	64.80	9920	123.40	41.70
5	Price	2.25	5.45	2.25	1.20	0.0300	2.25	5.45
6	Crop income	254.57	288.63	277.13	77.76	297.60	277.65	227.27
7	Straw income	0.00	0.00	0.00	47.73	0.00	0.00	0.00
8	Stubble income	0.00	0.00	0.00	91.51	0.00	0.00	0.00
9	Residue income	50.00	0.00	56.25	0.00	0.00	0.00	0.00
10	Total Income	304.57	288.63	333.38	217.00	297.60	277.65	227.27
11	Expenses							
12	Misc.	10.00	10.00	10.00	5.00	5.00	10.00	10.00
13	Crop Ins.	4.54	5.63	4.54	0.00	0.00	6.05	7.50
14	Interest	4.92	3.68	4.48	2.26	2.22	8.39	6.44
15	Land Charge	109.00	109.00	109.00	109.00	109.00	109.00	109.00
16	Cover crop	0.00	8.30	0.00	0.00	0.00	0.00	0.00
17	Chop Stalks	5.40	10.80	0.00	0.00	0.00	0.00	0.00
18	Apply NH4	0.00	0.00	0.00	0.00	0.00	26.70	0.00
19	Fall tillage	14.00	0.00	0.00	5.99	0.00	0.00	17.65
20	Spring tillage	10.60	0.00	0.00	0.00	5.99	13.70	20.75
21	Manure Charge	17.73	13.51	17.73	13.51	21.96	0.00	0.00
22	Purch. Fert.	15.74	7.52	22.42	15.05	15.05	17.65	17.65
23	Herbicides	0.00	0.00	0.00	0.00	0.00	26.38	30.00
24	Seed	26.52	19.98	26.52	9.00	12.10	23.85	19.98
25	Planting	10.40	10.40	10.40	3.25	3.25	8.20	8.20
26	Rotary Hoe	3.00	9.00	3.00	0.00	0.00	0.00	0.00
27	Spray	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	Cultivation	14.20	14.20	14.20	0.00	0.00	5.20	10.40
29	Windrow Oats	0.00	0.00	0.00	7.90	0.00	0.00	0.00
30	Bale Straw	0.00	0.00	0.00	10.17	0.00	0.00	0.00
31	Bale Stubble	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32	Mow	0.00	0.00	0.00	0.00	18.45	0.00	0.00
33	Rake	0.00	0.00	0.00	0.00	9.45	0.00	0.00
34	Bale Hay	0.00	0.00	0.00	0.00	40.99	0.00	0.00
35	Bale Residues	15.00	0.00	13.93	0.00	0.00	0.00	0.00
36	Moving bales	2.00	0.00	2.25	1.59	9.92	0.00	0.00
37	Grain Harvest	17.10	21.70	17.10	19.60	0.00	22.70	21.70
38	Grain Delivery	12.45	4.08	13.55	4.99	0.00	8.14	2.75
39	Shell/Grind	11.31	0.00	12.32	0.00	0.00	0.00	0.00
40	Storage	10.41	6.04	11.33	7.39	4.96	12.34	4.17
41	Hedge/P.L.	0.00	0.00	0.00	0.00	0.00	4.94	1.67
42	Drying cost	0.00	0.00	0.00	0.00	0.00	18.51	0.00
43	Corn RSL	0.00	0.00	0.00	0.00	0.00	3.70	0.00
44	Total Exp.	314.32	253.84	292.77	214.70	258.34	325.45	287.86
45	Cost/bu. or pound	2.63	4.79	2.25	3.13	0.0260	2.64	6.90
46	Labor Return	27.54	19.02	27.89	28.01	35.99	9.87	10.12
47	Labor&M.R. \$/A.	17.78	53.81	68.50	30.31	75.25	-37.93	-50.48
48	Systems Avg.			49.13			-44.20	

	A	B	C	D	E	F	G	H
1	Name of trial			Thompson Farm - 1992			Boone	Boone
2	Field/Plot No.	2	1	3	5	4CD	County	County
3	Crop	Corn	SB	Corn	Oats	Hay	Corn	SB
4	Yield per acre	193.00	60.55	189.90	79.64	10920	163.80	46.10
5	Price	1.90	5.35	1.90	1.25	0.0350	1.90	5.35
6	Crop income	366.70	323.94	360.81	99.55	382.20	311.22	246.64
7	Straw income	0.00	0.00	0.00	75.38	0.00	0.00	0.00
8	Stubble income	0.00	0.00	0.00	57.58	0.00	0.00	0.00
9	Residue income	0.00	0.00	86.86	0.00	0.00	0.00	0.00
10	Total Income	366.70	323.94	447.67	232.51	382.20	311.22	246.64
11	Expenses							
12	Misc.	10.00	10.00	10.00	5.00	5.00	10.00	10.00
13	Crop Ins.	4.54	5.63	4.54	0.00	0.00	6.05	7.50
14	Interest	5.14	3.84	4.68	2.36	2.31	8.68	6.49
15	Land Charge	109.00	109.00	109.00	109.00	109.00	109.00	109.00
16	Cover crop	8.30	8.30	8.30	0.00	0.00	0.00	0.00
17	Chop Stalks	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	Apply NH4	0.00	0.00	0.00	0.00	0.00	26.00	0.00
19	Fall tillage	8.70	0.00	0.00	0.00	0.00	0.00	17.65
20	Spring tillage	12.00	0.00	0.00	5.99	5.99	13.70	20.75
21	Manure Charge	17.73	13.51	17.73	13.51	21.96	0.00	0.00
22	Purch. Fert.	17.50	0.00	17.50	0.00	0.00	19.15	19.15
23	Herbicides	0.00	0.00	0.00	0.00	0.00	26.38	30.00
24	Seed	26.52	19.98	26.52	9.00	12.10	23.85	17.00
25	Planting	10.40	10.40	10.40	3.25	3.25	8.20	8.20
26	Rotary Hoe	0.00	6.00	0.00	0.00	0.00	0.00	0.00
27	Spray	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	Cultivation	14.20	14.20	14.20	0.00	0.00	5.20	10.40
29	Windrow Oats	0.00	0.00	0.00	7.90	0.00	0.00	0.00
30	Bale Straw	0.00	0.00	0.00	18.10	0.00	0.00	0.00
31	Bale Stubble	0.00	0.00	0.00	5.96	0.00	0.00	0.00
32	Mow	0.00	0.00	0.00	6.15	18.45	0.00	0.00
33	Rake	0.00	0.00	0.00	3.15	9.45	0.00	0.00
34	Bale Hay	0.00	0.00	0.00	0.00	43.76	0.00	0.00
35	Bale Residues	0.00	0.00	22.08	0.00	0.00	0.00	0.00
36	Moving bales	0.00	0.00	3.47	4.66	10.91	0.00	0.00
37	Grain Harvest	17.10	21.70	17.10	19.60	0.00	22.70	21.70
38	Grain Delivery	21.23	4.66	20.89	6.13	0.00	10.81	3.04
39	Shell/Grind	19.30	0.00	18.99	0.00	0.00	0.00	0.00
40	Storage	17.76	6.90	17.47	7.33	5.45	16.38	4.61
41	Hedge/P.L.	0.00	0.00	0.00	0.00	0.00	6.55	1.84
42	Drying cost	0.00	0.00	0.00	0.00	0.00	24.57	0.00
43	Corn RSL	0.00	0.00	0.00	0.00	0.00	4.91	0.00
44	Total Exp.	319.42	234.12	322.87	227.09	247.63	342.13	287.33
45	Cost/bu. or pound	1.66	3.87	1.57	2.37	0.0227	2.09	6.23
46	Labor Return	27.54	19.02	22.47	28.01	35.99	9.87	10.12
47	Labor&M.R. \$/A.	74.82	108.84	147.27	33.43	170.56	-21.04	-30.58
48	Systems Avg.			106.98			-25.81	

## EC93-4.xls

	A	B	C	D	E	F	G	H
1	Name of trial				Thompson Farm - 1993		Boone	Boone
2	Field/Plot No.	4CD	2	1	3	5	County	County
3	Crop	Corn	SB	Corn	Oats	Hay	Corn	SB
4	Yield per acre	89.80	45.33	71.63	57.41	8163	84.00	32.60
5	Price	2.65	6.55	2.65	1.40	0.0450	2.65	6.55
6	Crop income	237.97	296.91	189.82	80.37	367.34	222.60	213.53
7	Straw income	0.00	0.00	0.00	63.05	0.00	0.00	0.00
8	Stubble income	0.00	0.00	0.00	67.71	0.00	0.00	0.00
9	Residue income	103.97	16.95	48.91	0.00	0.00	0.00	0.00
10	Total Income	341.94	313.86	238.73	211.13	367.34	222.60	213.53
11	Expenses							
12	Misc.	10.00	10.00	10.00	0.00	0.00	10.00	10.00
13	Crop Ins.	4.80	6.08	4.80	0.00	0.00	6.40	8.10
14	Interest	4.28	3.20	3.90	1.97	1.93	7.74	5.67
15	Land Charge	111.00	111.00	111.00	111.00	111.00	111.00	111.00
16	Cover crop	0.00	8.30	8.30	0.00	0.00	0.00	0.00
17	Chop Stalks	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	Apply NH4	0.00	0.00	18.16	0.00	0.00	27.59	0.00
19	Fall tillage	10.60	0.00	0.00	0.00	0.00	6.30	17.65
20	Spring tillage	6.40	0.00	0.00	6.80	0.00	13.70	20.75
21	Manure Charge	17.73	13.51	17.73	13.51	21.96	0.00	0.00
22	Purch. Fert.	0.00	0.00	15.96	0.00	0.00	21.22	21.22
23	Herbicides	0.00	0.00	0.00	0.00	0.00	26.38	30.00
24	Seed	26.52	18.00	26.52	14.00	13.00	26.52	16.00
25	Planting	11.40	11.40	11.40	3.75	3.75	8.10	8.10
26	Rotary Hoe	4.25	12.75	4.25	0.00	0.00	0.00	0.00
27	Spray	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	Cultivation	7.80	15.60	7.80	0.00	0.00	5.40	10.80
29	Windrow Oats	0.00	0.00	0.00	6.10	0.00	0.00	0.00
30	Bale Straw	0.00	0.00	0.00	16.72	0.00	0.00	0.00
31	Bale Stubble	0.00	0.00	0.00	3.99	0.00	0.00	0.00
32	Mow	0.00	0.00	6.15	6.15	18.45	0.00	0.00
33	Rake	0.00	0.00	0.00	3.20	9.60	0.00	0.00
34	Bale Hay	0.00	0.00	0.00	0.00	26.50	0.00	0.00
35	Bale Residues	20.33	3.32	13.25	0.00	0.00	0.00	0.00
36	Moving bales	4.16	0.68	1.96	4.02	8.16	0.00	0.00
37	Grain Harvest	16.10	21.90	16.10	21.00	0.00	23.00	22.00
38	Grain Delivery	9.88	3.49	7.88	4.42	0.00	5.54	2.15
39	Shell/Grind	8.98	0.00	7.16	0.00	0.00	0.00	0.00
40	Storage	5.57	5.17	6.59	6.32	4.08	8.40	3.26
41	Hedge/P.L.	0.00	0.00	0.00	0.00	0.00	3.36	1.30
42	Drying cost	0.00	0.00	0.00	0.00	0.00	12.60	0.00
43	Corn RSL	0.00	0.00	0.00	0.00	0.00	2.52	0.00
44	Total Exp.	279.80	244.40	298.91	222.95	218.43	325.77	288.00
45	Cost/bu. or pound	2.84	5.30	3.87	3.29	0.0268	3.88	8.83
46	Labor Return	32.96	22.96	28.89	28.01	35.99	9.87	10.12
47	Labor&M.R. \$/A.	95.10	92.42	-31.29	16.19	184.90	-93.30	-64.35
48	Systems Avg.				71.46		-78.83	

## EC94-5.xls

	A	B	C	D	E	F	G	H
1	Name of trial			Thompson Farm - 1994			Boone	Boone
2	Field/Plot No.	5	4CD	2	1	3	County	County
3	Crop	Corn	SB	Corn	Oats	Hay	Corn	SB
4	Yield per acre	155.17	71.30	170.85	105.57	9194	163.50	52.00
5	Price	2.00	5.35	2.00	1.25	0.0375	2.00	5.35
6	Crop income	310.34	381.46	341.70	131.96	344.78	327.00	278.20
7	Straw income	0.00	0.00	0.00	85.71	0.00	0.00	0.00
8	Stubble income	0.00	0.00	0.00	83.96	0.00	0.00	0.00
9	Residue income	81.25	44.21	95.47	0.00	0.00	0.00	0.00
10	Total Income	391.59	425.67	437.17	301.63	344.78	327.00	278.20
11	Expenses							
12	Misc.	10.00	10.00	10.00	0.00	0.00	10.00	10.00
13	Crop Ins.	3.75	4.50	3.75	0.00	0.00	5.00	6.00
14	Interest	4.07	3.04	3.70	1.87	1.83	7.28	5.23
15	Land Charge	110.00	110.00	110.00	110.00	110.00	110.00	110.00
16	Cover crop	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	Chop Stalks	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	Apply NH4	0.00	0.00	0.00	0.00	0.00	28.12	0.00
19	Fall tillage	10.80	0.00	0.00	0.00	0.00	0.00	17.65
20	Spring tillage	6.60	0.00	0.00	6.90	6.90	13.70	20.75
21	Manure Charge	17.73	13.51	17.73	13.51	21.96	0.00	0.00
22	Purch. Fert.	0.00	0.00	0.00	0.00	0.00	24.82	24.82
23	Herbicides	0.00	0.00	0.00	0.00	0.00	26.38	30.00
24	Seed	28.20	18.00	28.20	10.00	16.20	28.20	18.00
25	Planting	11.40	11.40	11.40	3.90	3.90	9.70	9.70
26	Rotary Hoe	8.50	4.25	8.50	0.00	0.00	0.00	0.00
27	Spray	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	Cultivation	15.60	15.60	15.60	0.00	0.00	10.40	10.40
29	Windrow Oats	0.00	0.00	0.00	8.10	0.00	0.00	0.00
30	Bale Straw	0.00	0.00	0.00	15.61	0.00	0.00	0.00
31	Bale Stubble	0.00	0.00	0.00	11.15	0.00	0.00	0.00
32	Mow	6.15	0.00	6.15	6.40	19.20	0.00	0.00
33	Rake	0.00	0.00	0.00	3.50	10.50	0.00	0.00
34	Bale Hay	0.00	0.00	0.00	0.00	43.81	0.00	0.00
35	Bale Residues	15.46	10.95	26.71	0.00	0.00	0.00	0.00
36	Moving bales	3.25	1.77	3.82	5.10	9.19	0.00	0.00
37	Grain Harvest	17.50	22.00	17.50	22.00	0.00	23.00	22.00
38	Grain Delivery	17.07	5.49	18.79	8.13	0.00	10.79	3.43
39	Shell/Grind	15.52	0.00	17.09	0.00	0.00	0.00	0.00
40	Storage	14.28	8.13	15.72	12.04	4.60	16.35	5.30
41	Hedge/P.L.	0.00	0.00	0.00	0.00	0.00	6.54	2.12
42	Drying cost	0.00	0.00	0.00	0.00	0.00	24.53	0.00
43	Corn RSL	0.00	0.00	0.00	0.00	0.00	4.91	0.00
44	Total Exp.	315.88	238.64	314.66	238.21	248.09	359.72	295.40
45	Cost/bu. or pound	1.88	3.17	1.63	1.86	0.0270	2.20	5.68
46	Labor Return	32.96	22.96	27.89	28.01	35.99	9.87	10.12
47	Labor&M.R. \$/A.	108.67	209.99	150.40	91.43	132.68	-22.85	-7.08
48	Systems Avg.			138.63			-14.97	

## Ec95-1.xls

A	B	C	D	E	F	G	H
<b>1 Name of trial</b>		<b>Thompson Farm - 1995</b>					<b>Boone</b>
<b>2 Field/Plot No.</b>	<b>3</b>	<b>5</b>	<b>4CD</b>	<b>2</b>	<b>1</b>	<b>County</b>	<b>County</b>
<b>3 Crop</b>	<b>Corn</b>	<b>SB</b>	<b>Corn</b>	<b>Oats</b>	<b>Hay</b>	<b>Corn</b>	<b>SB</b>
<b>4 Yield per acre</b>	<b>179.35</b>	<b>59.00</b>	<b>159.87</b>	<b>84.61</b>	<b>8915</b>	<b>149.90</b>	<b>49.00</b>
<b>5 Price</b>	<b>2.95</b>	<b>6.40</b>	<b>2.95</b>	<b>1.75</b>	<b>0.0350</b>	<b>2.95</b>	<b>6.40</b>
<b>6 Crop income</b>	<b>529.08</b>	<b>377.60</b>	<b>471.62</b>	<b>148.07</b>	<b>312.03</b>	<b>442.21</b>	<b>313.60</b>
<b>7 Straw income</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>78.63</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>8 Stubble income</b>				<b>92.53</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>9 Residue income</b>	<b>100.33</b>	<b>35.19</b>	<b>95.98</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>10 Total Income</b>	<b>629.41</b>	<b>412.79</b>	<b>567.60</b>	<b>319.23</b>	<b>312.03</b>	<b>442.21</b>	<b>313.60</b>
<b>11 Expenses</b>							
<b>12 Misc.</b>	<b>8.00</b>	<b>8.00</b>	<b>8.00</b>	<b>5.00</b>	<b>5.00</b>	<b>8.00</b>	<b>8.00</b>
<b>13 Crop Ins.</b>	<b>3.15</b>	<b>3.90</b>	<b>3.15</b>	<b>0.00</b>	<b>0.00</b>	<b>4.20</b>	<b>5.20</b>
<b>14 Interest</b>	<b>4.28</b>	<b>3.20</b>	<b>3.90</b>	<b>1.97</b>	<b>1.93</b>	<b>8.02</b>	<b>5.34</b>
<b>15 Land Charge</b>	<b>113.00</b>	<b>113.00</b>	<b>113.00</b>	<b>113.00</b>	<b>113.00</b>	<b>113.00</b>	<b>113.00</b>
<b>16 Cover crop</b>	<b>2.20</b>	<b>9.75</b>	<b>6.25</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>17 Chop Stalks</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>18 Apply NH4</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>6.25</b>	<b>0.00</b>
<b>19 Fall tillage</b>	<b>11.15</b>	<b>0.00</b>	<b>0.00</b>	<b>4.80</b>	<b>4.80</b>	<b>0.00</b>	<b>17.00</b>
<b>20 Spring tillage</b>	<b>13.50</b>	<b>0.00</b>	<b>0.00</b>	<b>3.38</b>	<b>3.38</b>	<b>13.50</b>	<b>20.35</b>
<b>21 Manure Charge</b>	<b>17.73</b>	<b>13.51</b>	<b>17.73</b>	<b>13.51</b>	<b>21.96</b>	<b>0.00</b>	<b>0.00</b>
<b>22 Purch. Fert.</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>54.39</b>	<b>26.15</b>
<b>23 Herbicides</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>20.85</b>	<b>19.85</b>
<b>24 Seed</b>	<b>25.52</b>	<b>21.02</b>	<b>25.52</b>	<b>6.25</b>	<b>17.50</b>	<b>25.52</b>	<b>14.00</b>
<b>25 Planting</b>	<b>11.30</b>	<b>11.30</b>	<b>11.30</b>	<b>3.78</b>	<b>3.78</b>	<b>9.00</b>	<b>9.00</b>
<b>26 Rotary Hoe</b>	<b>9.00</b>	<b>13.50</b>	<b>9.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>4.50</b>
<b>27 Spray</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>3.85</b>	<b>3.85</b>
<b>28 Cultivation</b>	<b>15.50</b>	<b>15.50</b>	<b>15.50</b>	<b>0.00</b>	<b>0.00</b>	<b>5.70</b>	<b>11.40</b>
<b>29 Windrow Oats</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>7.90</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>30 Bale Straw</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>12.75</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>31 Bale Stubble</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>11.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>32 Mow</b>	<b>6.05</b>	<b>0.00</b>	<b>6.05</b>	<b>6.05</b>	<b>18.15</b>	<b>0.00</b>	<b>0.00</b>
<b>33 Rake</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>7.40</b>	<b>11.10</b>	<b>0.00</b>	<b>0.00</b>
<b>34 Bale Hay</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>55.90</b>	<b>0.00</b>	<b>0.00</b>
<b>35 Bale Residues</b>	<b>24.64</b>	<b>9.04</b>	<b>24.64</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>36 Moving bales</b>	<b>3.73</b>	<b>1.37</b>	<b>3.57</b>	<b>3.60</b>	<b>8.47</b>	<b>0.00</b>	<b>0.00</b>
<b>37 Grain Harvest</b>	<b>17.75</b>	<b>22.20</b>	<b>17.75</b>	<b>20.45</b>	<b>0.00</b>	<b>23.10</b>	<b>22.20</b>
<b>38 Grain Hauling</b>	<b>19.69</b>	<b>4.13</b>	<b>17.60</b>	<b>6.80</b>	<b>0.00</b>	<b>10.50</b>	<b>3.43</b>
<b>39 Shell/Grind</b>	<b>17.94</b>	<b>0.00</b>	<b>15.99</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>40 Storage</b>	<b>21.48</b>	<b>5.90</b>	<b>19.20</b>	<b>11.90</b>	<b>4.24</b>	<b>15.00</b>	<b>4.90</b>
<b>41 Hedge/P.L.</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>4.00</b>	<b>1.96</b>
<b>42 Drying cost</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>22.50</b>	<b>0.00</b>
<b>43 Corn RSL</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>4.50</b>	<b>0.00</b>
<b>44 Total Exp.</b>	<b>345.61</b>	<b>255.32</b>	<b>318.15</b>	<b>239.54</b>	<b>269.21</b>	<b>351.88</b>	<b>290.13</b>
<b>45 Cost/bu, or pound</b>	<b>1.74</b>	<b>4.15</b>	<b>1.78</b>	<b>2.35</b>	<b>0.0302</b>	<b>2.35</b>	<b>5.92</b>
<b>46 Labor Return</b>	<b>32.96</b>	<b>22.96</b>	<b>28.89</b>	<b>27.89</b>	<b>35.99</b>	<b>9.87</b>	<b>10.12</b>
<b>47 Labor&amp;M.R. \$/A.</b>	<b>316.76</b>	<b>180.43</b>	<b>278.34</b>	<b>107.58</b>	<b>78.81</b>	<b>100.20</b>	<b>33.59</b>
<b>48 Systems Avg.</b>				<b>192.38</b>			<b>66.89</b>

## EC96-1.xls

	A	B	C	D	E	F	G	H
1	Name of trial				Thompson Farm - 1996		Boone	Boone
2	Field/Plot No.	1	3	5	4CD	2	County	County
3	Crop	Corn	SB	Corn	Oats	Hay	Corn	SB
4	Yield per acre	169.52	53.27	170.73	86.11	9679.00	148.90	46.30
5	Price	2.35	6.65	2.35	1.95	0.0375	2.35	6.65
6	Crop income	398.37	354.25	401.22	167.91	362.96	349.92	307.90
7	Straw income	0.00	0.00	0.00	102.88	0.00	0.00	0.00
8	Stubble income	0.00	0.00	0.00	160.87	0.00	0.00	0.00
9	Residue income	85.09	32.98	88.36	0.00	0.00	0.00	0.00
10	Total Income	483.46	387.23	489.58	431.66	362.96	349.92	307.90
11	Expenses							
12	Misc.	8.00	8.00	8.00	0.00	0.00	8.00	8.00
13	Crop Ins.	3.15	3.90	3.15	0.00	0.00	4.20	5.20
14	Interest	4.07	3.04	3.70	1.87	1.83	8.36	5.66
15	Land Charge	119.00	119.00	119.00	119.00	119.00	119.00	119.00
16	Cover crop	2.32	10.47	6.95	0.00	0.00	0.00	0.00
17	Chop Stalks	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	Apply NH4	0.00	0.00	0.00	0.00	0.00	6.30	0.00
19	Fall tillage	10.85	0.00	0.00	4.30	4.30	0.00	17.65
20	Spring tillage	6.85	0.00	0.00	3.50	3.50	13.70	20.75
21	Manure Charge	17.73	13.51	17.73	13.51	21.96	0.00	0.00
22	Purch. Fert.	0.00	0.00	0.00	0.00	0.00	58.20	27.35
23	Herbicides	0.00	0.00	0.00	0.00	0.00	25.00	27.00
24	Seed	25.65	21.02	25.65	9.36	17.38	25.65	14.00
25	Planting	11.40	11.40	11.40	4.08	4.08	9.70	9.70
26	Rotary Hoe	9.10	9.10	9.10	0.00	0.00	0.00	0.00
27	Spray	0.00	0.00	0.00	0.00	0.00	3.90	3.90
28	Cultivation	14.60	14.60	14.60	0.00	0.00	5.85	11.70
29	Windrow Oats	0.00	0.00	0.00	8.25	0.00	0.00	0.00
30	Bale Straw	0.00	0.00	0.00	22.20	0.00	0.00	0.00
31	Bale Stubble	0.00	0.00	0.00	17.46	0.00	0.00	0.00
32	Mow	6.15	0.00	6.15	6.15	24.60	0.00	0.00
33	Rake	3.50	0.00	3.50	7.00	14.00	0.00	0.00
34	Bale Hay	0.00	0.00	0.00	0.00	46.31	0.00	0.00
35	Bale Residues	21.53	9.61	22.36	0.00	0.00	0.00	0.00
36	Moving bales	3.17	1.41	3.29	4.44	6.81	0.00	0.00
37	Grain Harvest	17.25	22.20	17.25	20.70	0.00	22.90	22.20
38	Grain Delivery	18.70	4.08	18.81	6.62	0.00	10.85	3.08
39	Shell/Grind	16.95	0.00	17.07	0.00	0.00	0.00	0.00
40	Storage	15.64	6.04	15.73	12.04	3.41	15.50	4.40
41	Hedge/P.L.	0.00	0.00	0.00	0.00	0.00	6.20	1.76
42	Drying cost	0.00	0.00	0.00	0.00	0.00	23.25	0.00
43	Corn RSL	0.00	0.00	0.00	0.00	0.00	4.65	0.00
44	Total Exp.	335.61	257.38	323.44	260.48	267.18	371.21	301.35
45	Cost/bu. or pound	1.78	4.62	1.69	2.36	0.0276	2.49	6.51
46	Labor Return	32.96	22.96	27.89	28.01	35.99	9.87	10.12
47	Labor+M.R. \$/A.	180.81	152.81	194.03	199.19	131.77	-11.42	16.67
48	Systems Avg.			171.72			2.62	

## EC97-1.xls

	A	B	C	D	E	F	G	H
1	Name of trial				Thompson Farm - 1997		Boone	Boone
2	Field/Plot No.	4	1	3	5	2	County	County
3	Crop	Corn	SB	Corn	Oats	Hay	Corn	SB
4	Yield per acre	161.25	58.77	148.28	91.03	7991	149.10	44.60
5	Price	2.45	6.85	2.45	1.60	0.035	2.45	6.85
6	Crop income	395.06	402.57	363.29	145.65	279.69	365.30	305.51
7	Straw income	0.00	0.00	0.00	74.60	0.00	0.00	0.00
8	Stubble income	0.00	0.00	0.00	66.57	0.00	0.00	0.00
9	Residue income	87.13	26.50	71.28	0.00	0.00	0.00	0.00
10	Total Income	482.19	429.07	434.57	286.82	279.69	365.30	305.51
11	Expenses							
12	Misc.	8.00	8.00	8.00	0.00	0.00	8.00	8.00
13	Crop Ins.	3.15	3.90	3.15	0.00	0.00	4.20	5.20
14	Interest	1.66	1.15	1.66	0.62	1.13	8.58	5.80
15	Land Charge	125.00	125.00	125.00	125.00	125.00	125.00	125.00
16	Cover crop	2.80	0.00	8.90	0.00	0.00	0.00	0.00
17	Chop Stalks	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	Apply NH4	0.00	0.00	0.00	0.00	0.00	6.50	0.00
19	Fall tillage	11.05	0.00	0.00	0.00	0.00	0.00	17.85
20	Spring tillage	14.20	0.00	0.00	7.15	7.15	7.10	15.35
21	Manure Charge	17.73	13.51	17.73	13.51	21.96	0.00	0.00
22	Purch. Fert.	0.00	0.00	0.00	0.00	0.00	60.76	28.15
23	Herbicides	0.00	0.00	0.00	0.00	0.00	25.75	28.00
24	Seed	29.40	17.80	29.40	9.26	22.58	29.40	14.50
25	Planting	11.50	11.50	11.50	4.32	4.33	8.75	8.75
26	Rotary Hoe	9.10	9.10	9.10	0.00	0.00	0.00	0.00
27	Spray	0.00	0.00	0.00	0.00	0.00	3.95	3.95
28	Cultivation	15.80	15.80	15.80	0.00	0.00	5.95	5.95
29	Windrow Oats	0.00	0.00	0.00	8.40	0.00	0.00	0.00
30	Bale Straw	0.00	0.00	0.00	25.58	0.00	0.00	0.00
31	Bale Stubble	0.00	0.00	0.00	8.77	0.00	0.00	0.00
32	Mow	6.50	0.00	6.50	6.50	19.50	0.00	0.00
33	Rake	0.00	0.00	0.00	7.60	11.40	0.00	0.00
34	Bale Hay	0.00	0.00	0.00	0.00	41.48	0.00	0.00
35	Bale Residues	29.04	8.49	23.76	0.00	0.00	0.00	0.00
36	Moving bales	7.57	2.21	6.19	7.36	12.74	0.00	0.00
37	Grain Harvest	19.00	22.60	19.00	20.95	0.00	23.35	22.60
38	Grain Hauling	17.74	5.29	16.31	8.19	0.00	10.88	3.26
39	Shell/Grind	16.13	0.00	14.83	0.00	0.00	0.00	0.00
40	Storage	15.16	7.52	13.94	11.65	2.96	14.91	4.46
41	Hedge/P.L.	0.00	0.00	0.00	0.00	0.00	5.96	1.78
42	Drying cost	0.00	0.00	0.00	0.00	0.00	22.37	0.00
43	Corn RSL	0.00	0.00	0.00	0.00	0.00	4.47	0.00
44	Total Exp.	360.53	251.87	330.77	264.86	270.23	375.88	298.60
45	Cost/bu. or pound	1.97	4.10	1.98	2.30	0.0338	2.52	6.70
46	Labor Return	32.96	22.96	27.89	28.01	35.99	9.87	10.12
47	Labor&M.R. \$/A.	154.62	200.16	131.69	49.97	45.45	-0.71	17.03
48	Systems Avg.			116.38			8.16	

## EC98-1.xls

	A	B	C	D	E	F	G	H
1	Name of trial				Thompson Farm - 1998		Boone	Boone
2	Field/Plot No.	2	4	1	3	5	County	County
3	Crop	Corn	SB	Corn	Oats	Hay	Corn	SB
4	Yield per acre	180.57	56.06	164.10	67.85	13227	146.60	47.00
5	Price	1.90	5.40	1.90	1.10	0.0350	1.90	5.40
6	Crop income	343.08	302.72	311.79	74.64	462.95	278.54	253.80
7	Straw income	0.00	0.00	0.00	85.83	0.00	0.00	0.00
8	Stubble income	0.00	0.00	0.00	138.52	0.00	0.00	0.00
9	Residue income	79.37	19.26	57.39	0.00	0.00	0.00	0.00
10	Total Income	422.45	321.98	369.18	298.99	462.95	278.54	253.80
11	Expenses							
12	Misc.	8.00	8.00	8.00	0.00	0.00	8.00	8.00
13	Crop Ins.	3.38	4.13	3.38	0.00	0.00	4.50	5.50
14	Interest	1.66	1.15	1.66	0.62	1.13	8.11	5.73
15	Land Charge	125.00	125.00	125.00	125.00	125.00	125.00	125.00
16	Cover crop	0.00	11.20	0.00	0.00	0.00	0.00	0.00
17	Chop Cover	0.00	6.35	0.00	0.00	0.00	0.00	0.00
18	Apply NH4	0.00	0.00	0.00	0.00	0.00	6.35	0.00
19	Fall tillage	11.15	0.00	0.00	0.00	0.00	0.00	17.85
20	Spring tillage	13.90	0.00	0.00	7.25	7.25	6.95	15.15
21	Manure Charge	17.73	13.51	17.73	13.51	21.96	0.00	0.00
22	Purch. Fert.	0.00	0.00	0.00	0.00	0.00	57.00	28.10
23	Herbicides	0.00	1.63	0.00	0.00	0.00	30.00	30.00
24	Seed	29.80	19.50	29.80	3.41	22.33	30.00	18.00
25	Planting	11.45	11.45	11.45	4.45	4.45	8.85	8.85
26	Rotary Hoe	8.90	4.45	8.90	0.00	0.00	0.00	0.00
27	Spray/Walk	0.00	11.16	0.00	0.00	0.00	4.00	4.00
28	Cultivation	7.55	22.65	7.55	0.00	0.00	6.20	6.20
29	Windrow Oats	0.00	0.00	0.00	8.45	0.00	0.00	0.00
30	Bale Straw	0.00	0.00	0.00	25.23	0.00	0.00	0.00
31	Bale Stubble	0.00	0.00	0.00	19.58	0.00	0.00	0.00
32	Mow	6.70	0.00	6.70	6.70	20.10	0.00	0.00
33	Rake	0.00	0.00	0.00	7.80	11.70	0.00	0.00
34	Bale Hay	0.00	0.00	0.00	0.00	63.38	0.00	0.00
35	Bale Residues	26.35	6.27	19.05	0.00	0.00	0.00	0.00
36	Moving bales	7.62	1.81	5.51	13.83	21.13	0.00	0.00
37	Grain Harvest	17.95	22.55	17.95	21.15	0.00	23.40	22.55
38	Grain Hauling	19.86	4.15	18.05	5.02	0.00	10.26	3.29
39	Shell/Grind	18.06	0.00	16.41	0.00	0.00	0.00	0.00
40	Storage	15.71	7.06	14.30	8.55	4.40	14.66	4.70
41	Hedge/P.L.	0.00	0.00	0.00	0.00	0.00	5.86	1.88
42	Drying cost	0.00	0.00	0.00	0.00	0.00	21.99	0.00
43	Corn RSL	0.00	0.00	0.00	0.00	0.00	4.40	0.00
44	Total Exp.	350.77	282.02	311.44	270.55	302.83	375.53	304.80
45	Cost/bu. or pound	1.72	4.89	1.71	2.91	0.0229	2.56	6.49
46	Labor Return	32.96	22.96	27.89	28.01	35.99	9.87	10.12
47	Labor&M.R. \$/A.	104.64	62.92	85.63	56.45	196.11	-87.12	-40.88
48	Systems Avg.				101.15		-64.00	

## EC99-1.xls

	A	B	C	D	E	F	G	H
1	Name of trial				Thompson Farm -1999		Boone	Boone
2	Field/Plot No.	5	2	4	1	3	County	County
3	Crop	Corn	SB	Corn	Oats	Hay	Corn	SB
4	Yield per acre	140.02	53.85	138.73	80.65	9947	155.60	42.90
5	Price	1.60	4.60	1.60	1.20	0.0375	1.60	4.60
6	Crop income	224.03	247.71	221.97	96.78	373.01	248.96	197.34
7	Straw income	0.00	0.00	0.00	43.27	0.00	0.00	0.00
8	Pasture/Stubble	0.00	0.00	0.00	164.14	0.00	0.00	0.00
9	Residue income	79.83	27.94	86.70	0.00	0.00	0.00	0.00
10	Total Income	303.86	275.65	308.67	304.19	373.01	248.96	197.34
11	Expenses							
12	Misc.	8.00	8.00	8.00	0.00	0.00	8.00	8.00
13	Crop Ins.	4.13	3.00	4.13	0.00	0.00	5.50	4.00
14	Interest	1.21	0.84	1.21	0.45	0.83	7.91	5.63
15	Land Charge	120.00	120.00	120.00	120.00	120.00	120.00	120.00
16	Cover crop	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	Chop Stks./C.c.	0.00	6.35	0.00	0.00	0.00	0.00	0.00
18	Apply NH4	0.00	0.00	0.00	0.00	0.00	6.30	0.00
19	Fall tillage	10.95	0.00	0.00	0.00	0.00	0.00	18.15
20	Spring tillage	14.30	0.00	0.00	5.55	5.55	7.15	15.20
21	Manure Charge	17.73	13.51	17.73	13.51	21.96	0.00	0.00
22	Purch. Fert.	0.00	0.00	0.00	0.00	0.00	52.80	28.10
23	Herbicides	0.00	1.02	0.00	0.00	0.00	30.00	30.00
24	Seed	25.18	22.29	25.63	3.39	22.34	30.00	18.00
25	Planting	11.75	11.75	11.75	4.30	4.30	9.00	9.00
26	Rotary Hoe	9.00	9.00	9.00	0.00	0.00	0.00	0.00
27	Spray/Walk	0.00	7.44	0.00	0.00	0.00	4.25	4.25
28	Cultivation	15.20	30.40	15.20	0.00	0.00	6.35	6.35
29	Windrow Oats	0.00	0.00	0.00	8.70	0.00	0.00	0.00
30	Bale Straw	0.00	0.00	0.00	17.03	0.00	0.00	0.00
31	Bale Stubble	0.00	0.00	0.00	22.91	0.00	0.00	0.00
32	Mow	6.60	0.00	6.60	6.60	19.80	0.00	0.00
33	Rake	0.00	0.00	0.00	4.10	12.30	0.00	0.00
34	Bale Hay	0.00	0.00	0.00	0.00	49.11	0.00	0.00
35	Bale Residues	31.86	11.12	34.59	0.00	0.00	0.00	0.00
36	Moving bales	10.88	4.37	11.81	14.11	19.30	0.00	0.00
37	Grain Harvest	17.90	23.10	17.90	20.70	0.00	23.90	23.10
38	Grain Hauling	15.40	4.85	15.26	7.26	0.00	10.26	3.29
39	Shell/Grind	14.00	0.00	13.87	0.00	0.00	0.00	0.00
40	Storage	12.60	5.82	12.49	8.71	4.97	14.66	4.70
41	Hedge/P.L.	0.00	0.00	0.00	0.00	0.00	5.86	1.88
42	Drying cost	0.00	0.00	0.00	0.00	0.00	21.99	0.00
43	Corn RSL	0.00	0.00	0.00	0.00	0.00	4.40	0.00
44	Total Exp.	346.69	282.86	325.17	257.32	280.46	368.33	299.65
45	Cost/bu. or pound	2.12	4.97	1.96	2.39	0.0282	2.37	6.98
46	Labor Return	32.96	22.96	27.89	28.01	35.99	9.87	10.12
47	Labor&M.R. \$/A.	-9.87	15.75	11.39	74.88	128.54	-109.50	-92.19
48	Systems Avg.			44.14			-100.85	

## EC2000-1.xls.xls

	A	B	C	D	E	F	G	H
1	Name of trial			Thompson Farm - 2000			Boone	Boone
2	Field/Plot No.	3	5	2	4	1	County	County
3	Crop	Corn	SB	Corn	Oats	Hay	Corn	SB
4	Yield per acre	152.77	59.83	135.11	97.01	13095	155.60	39.70
5	Price	1.85	4.65	1.85	1.20	0.0375	1.85	4.65
6	Crop income	282.62	278.21	249.95	116.41	491.06	287.86	184.61
7	Straw income	0.00	0.00	0.00	122.36	0.00	0.00	0.00
8	Pasture/Stubble	0.00	0.00	0.00	150.35	0.00	0.00	0.00
9	Residue income	100.95	37.51	110.19	0.00	0.00	0.00	0.00
10	Total Income	383.57	315.72	360.14	389.12	491.06	287.86	184.61
11	Expenses							
12	Misc.	8.00	8.00	8.00	0.00	0.00	8.00	8.00
13	Crop Ins.	4.50	2.62	4.50	0.00	0.00	6.00	3.50
14	Interest	1.21	0.84	1.21	0.45	0.83	8.33	5.88
15	Land Charge	121.00	121.00	121.00	121.00	121.00	121.00	121.00
16	Cover crop	0.00	10.91	0.00	0.00	0.00	0.00	0.00
17	Chop Stks./C.c.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	Apply NH4	0.00	0.00	0.00	0.00	0.00	6.30	0.00
19	Fall tillage	10.80	0.00	0.00	4.25	4.25	0.00	18.40
20	Spring tillage	7.30	0.00	0.00	1.93	1.93	7.30	15.15
21	Manure Charge	17.73	13.51	17.73	13.51	21.96	0.00	0.00
22	Purch. Fert.	0.00	0.00	0.00	0.00	0.00	51.60	27.30
23	Herbicides	0.00	0.53	0.00	0.00	0.00	30.00	30.00
24	Seed	25.40	19.66	25.40	3.92	22.34	30.00	18.00
25	Planting	11.75	11.75	11.75	4.38	4.38	9.35	9.35
26	Rotary Hoe	4.55	9.10	4.55	0.00	0.00	0.00	0.00
27	Spray/Walk	0.00	6.61	0.00	0.00	0.00	4.30	4.30
28	Cultivation	15.80	23.70	15.80	0.00	0.00	6.30	6.30
29	Windrow Oats	0.00	0.00	0.00	8.80	0.00	0.00	0.00
30	Bale Straw	0.00	0.00	0.00	23.01	0.00	0.00	0.00
31	Bale Stubble	0.00	0.00	0.00	21.31	0.00	0.00	0.00
32	Mow	6.80	0.00	6.80	6.80	20.40	0.00	0.00
33	Rake	0.00	0.00	0.00	8.20	12.30	0.00	0.00
34	Bale Hay	0.00	0.00	0.00	0.00	67.89	0.00	0.00
35	Bale Residues	33.12	15.66	36.14	0.00	0.00	0.00	0.00
36	Moving bales	12.07	5.72	13.17	17.01	28.56	0.00	0.00
37	Grain Harvest	18.25	23.30	18.25	21.15	0.00	24.05	23.30
38	Grain Hauling	14.86	4.78	16.80	7.76	0.00	10.58	2.70
39	Shell/Grind	13.51	0.00	15.28	0.00	0.00	0.00	0.00
40	Storage	13.64	6.82	15.42	16.02	13.08	15.56	3.97
41	Hedge/P.L.	0.00	0.00	0.00	0.00	0.00	6.22	1.59
42	Drying cost	0.00	0.00	0.00	0.00	0.00	23.34	0.00
43	Corn RSL	0.00	0.00	0.00	0.00	0.00	4.67	0.00
44	Total Exp.	340.29	284.51	331.80	279.50	318.92	372.90	298.74
45	Cost/bu. or pound	1.89	4.40	2.04	2.09	0.0244	2.40	7.52
46	Labor Return	32.96	22.96	27.89	28.01	35.99	9.87	10.12
47	Labor&M.R. \$/A.	76.24	54.17	56.23	137.63	208.13	-75.17	-104.02
48	Systems Avg.			106.48			-89.60	

## Econ2001.xls

	A	B	C	D	E	F	G	H
1	Name of trial		Thompson Farm - 2001				Boone	Boone
2	Field/Plot No.	4	3	5	2	1	County	County
3	Crop	Corn	SB	Corn	Oats	Hay	Corn	SB
4	Yield per acre	146.88	57.12	138.33	94.10	14188	154.00	40.10
5	Price	1.80	4.20	1.80	1.50	0.0375	1.80	4.20
6	Crop income	264.38	239.90	248.99	141.15	532.05	277.20	168.42
7	Straw income	0.00	0.00	0.00	141.45	0.00	0.00	0.00
8	Pasture/Stubble	0.00	0.00	0.00	97.62	0.00	0.00	0.00
9	Residue income	99.13	23.50	91.00	0.00	0.00	0.00	0.00
10	Total Income	363.51	263.40	339.99	380.22	532.05	277.20	168.42
11	Expenses							
12	Misc.	8.00	8.00	8.00	0.00	0.00	8.00	8.00
13	Crop Ins.	4.50	2.62	4.50	0.00	0.00	5.00	3.00
14	Interest	1.21	0.84	1.21	0.45	0.83	8.75	5.90
15	Land Charge	124.00	124.00	124.00	124.00	124.00	124.00	124.00
16	Cover crop	0.00	11.93	0.00	0.00	0.00	0.00	0.00
17	Chop Stks./C.c.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	Apply NH4	0.00	0.00	0.00	0.00	0.00	6.70	0.00
19	Fall tillage	11.05	0.00	0.00	0.00	0.00	0.00	18.65
20	Spring tillage	7.55	0.00	0.00	9.85	9.85	8.30	15.85
21	Manure Charge	17.73	13.51	17.73	13.51	21.96	0.00	0.00
22	Purch. Fert.	0.00	0.00	0.00	0.00	0.00	58.60	27.30
23	Herbicides	0.00	0.00	0.00	0.00	0.00	30.00	30.00
24	Seed	27.00	18.00	27.00	4.32	20.90	30.00	18.00
25	Planting	11.65	11.65	11.65	4.63	4.63	9.55	9.55
26	Rotary Hoe	14.85	9.90	9.90	0.00	0.00	0.00	0.00
27	Spray/Walk	0.00	5.88	0.00	0.00	0.00	4.60	4.60
28	Cultivation	15.80	15.80	15.80	0.00	0.00	6.65	6.65
29	Windrow Oats	0.00	0.00	0.00	9.00	0.00	0.00	0.00
30	Bale Straw	0.00	0.00	0.00	30.78	0.00	0.00	0.00
31	Bale Stubble	0.00	0.00	0.00	13.42	0.00	0.00	0.00
32	Mow	7.05	0.00	7.05	7.05	21.15	0.00	0.00
33	Rake	0.00	0.00	0.00	7.80	11.70	0.00	0.00
34	Bale Hay	0.00	0.00	0.00	0.00	75.10	0.00	0.00
35	Bale Residues	41.48	8.54	38.08	0.00	0.00	0.00	0.00
36	Mov & Stor bales	13.83	2.85	12.69	16.65	44.52	0.00	0.00
37	Grain Harvest	19.45	23.50	19.45	22.15	0.00	24.25	23.50
38	Grain Hauling	16.16	5.14	15.22	8.47	0.00	12.17	3.17
39	Shell/Grind	14.69	0.00	13.83	9.41	0.00	0.00	0.00
40	Storage	15.42	6.74	14.52	11.10	0.00	15.40	4.01
41	Hedge/P.L.	0.00	0.00	0.00	0.00	0.00	6.16	1.60
42	Drying cost	0.00	0.00	0.00	0.00	0.00	23.10	0.00
43	Corn RSL	0.00	0.00	0.00	0.00	0.00	4.62	0.00
44	Total Exp.	371.42	268.90	340.63	292.59	334.64	385.85	303.78
45	Cost/bu. or pound	2.10	4.51	2.04	2.30	0.0236	2.51	7.58
46	Labor Return	32.96	22.96	27.89	28.01	35.99	9.87	10.12
47	Labor&M.R. \$/A.	25.05	17.46	27.25	115.64	233.40	-98.78	-125.24
48	Systems Avg.			83.76			-112.01	

## Econ2002.xls

	A	B	C	D	E	F	G	H
1	Name of trial				Thompson Farm - 2002		Boone	Boone
2	Field/Plot No.	1	4	3	5	2	County	County
3	Crop	Corn	SB	Corn	Oats	Hay	Corn	SB
4	Yield per acre	176.46	57.38	176.56	115.54	14502	173.50	47.70
5	Price	2.15	5.40	2.15	1.80	0.0375	2.15	5.40
6	Crop income	379.39	309.85	379.60	207.97	543.83	373.03	257.58
7	Straw income	0.00	0.00	0.00	180.71	0.00	0.00	0.00
8	Pasture/Stubble	0.00	0.00	0.00	191.10	0.00	0.00	0.00
9	Residue income	137.48	45.83	127.20	0.00	0.00	0.00	0.00
10	Total Income	516.87	355.68	506.80	579.78	543.83	373.03	257.58
11	Expenses							
12	Misc.	8.00	8.00	8.00	0.00	0.00	8.00	8.00
13	Crop Ins.	4.50	2.62	4.50	0.00	0.00	6.00	3.15
14	Interest	1.21	0.84	1.21	0.45	0.83	6.90	4.60
15	Land Charge	128.00	128.00	128.00	128.00	128.00	128.00	128.00
16	Cover crop	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	Chop Stks./C.c.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	Apply NH4	0.00	0.00	0.00	0.00	0.00	6.65	0.00
19	Fall tillage	11.30	0.00	0.00	4.82	4.83	0.00	18.90
20	Spring tillage	7.70	0.00	0.00	6.10	6.10	7.70	16.40
21	Manure Charge	17.73	13.51	17.73	13.51	21.96	0.00	0.00
22	Purch. Fert.	0.00	0.00	0.00	0.00	0.00	56.90	25.75
23	Herbicides	0.00	0.00	0.00	0.00	0.00	31.00	31.00
24	Seed	28.00	18.00	28.00	7.07	19.00	30.00	18.00
25	Planting	12.10	12.10	12.10	5.45	5.45	9.80	9.80
26	Rotary Hoe	14.85	14.85	14.85	0.00	0.00	0.00	0.00
27	Spray/Walk	0.00	13.04	0.00	0.00	0.00	5.30	5.30
28	Cultivation	17.30	17.30	17.30	0.00	0.00	6.65	6.65
29	Windrow Oats	0.00	0.00	0.00	9.20	0.00	0.00	0.00
30	Bale Straw	0.00	0.00	0.00	35.62	0.00	0.00	0.00
31	Bale Stubble	0.00	0.00	0.00	25.18	0.00	0.00	0.00
32	Mow	7.35	0.00	7.35	7.35	22.05	0.00	0.00
33	Rake	0.00	0.00	0.00	8.50	12.75	0.00	0.00
34	Bale Hay	0.00	0.00	0.00	0.00	71.75	0.00	0.00
35	Stack Residues	23.65	9.50	21.96	0.00	0.00	0.00	0.00
36	Mov & Stor bales	6.42	2.60	5.96	21.73	43.78	0.00	0.00
37	Grain Harvest	19.85	23.05	19.85	21.35	0.00	23.85	23.05
38	Grain Hauling	19.41	5.51	19.42	11.09	0.00	15.27	4.20
39	Shell/Grind	17.65	0.00	17.66	11.55	0.00	0.00	0.00
40	Storage	18.00	7.52	18.01	15.14	0.00	17.35	4.77
41	Hedge/P.L.	0.00	0.00	0.00	0.00	0.00	6.94	1.91
42	Drying cost	0.00	0.00	0.00	0.00	0.00	26.03	0.00
43	Corn RSL	0.00	0.00	0.00	0.00	0.00	5.21	0.00
44	Total Exp.	363.02	276.44	341.90	332.11	336.50	397.55	309.48
45	Cost/bu. or pound	1.85	4.61	1.74	2.02	0.0232	2.29	6.49
46	Labor Return	32.96	22.96	27.89	28.01	35.99	9.87	10.12
47	Labor&M.R. \$/A.	186.81	102.20	192.79	275.68	243.32	-14.66	-41.78
48	Systems Avg.			200.16			-28.22	

## Econ2003.xls

	A	B	C	D	E	F	G	H
1	Name of trial				Thompson Farm - 2003		Boone	Boone
2	Field/Plot No.	2	1	4	3	5	County	County
3	Crop	Corn	SB	Corn	Oats	Hay	Corn	SB
4	Yield per acre	192.83	34.75	191.90	144.47	12493	170.60	34.30
5	Price	2.20	7.40	2.20	1.55	0.0325	2.20	7.40
6	Crop income	424.23	257.15	422.18	223.93	406.02	375.32	253.82
7	Straw income	0.00	0.00	0.00	92.64	0.00	0.00	0.00
8	Pasture/Stubble	0.00	0.00	0.00	76.84	0.00	0.00	0.00
9	Residue income	229.16	28.63	158.15	0.00	0.00	0.00	0.00
10	Total Income	653.39	285.78	580.33	393.41	406.02	375.32	253.82
11	Expenses							
12	Misc.	8.00	8.00	8.00	0.00	0.00	8.00	8.00
13	Crop Ins.	0.00	0.00	0.00	0.00	0.00	5.80	3.15
14	Interest	1.21	0.84	1.21	0.45	0.83	6.12	3.97
15	Land Charge	132.00	132.00	132.00	132.00	132.00	132.00	132.00
16	Cover crop	0.00	13.55	13.55	0.00	0.00	0.00	0.00
17	Chop Stks./C.c.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	Apply NH4	0.00	0.00	0.00	0.00	0.00	6.70	0.00
19	Fall tillage	11.75	0.00	0.00	4.90	4.90	0.00	19.15
20	Spring tillage	15.70	0.00	0.00	6.22	6.23	7.85	16.65
21	Manure Charge	17.73	13.51	17.73	13.51	21.96	0.00	0.00
22	Purch. Fert.	0.00	0.00	0.00	0.00	0.00	56.25	25.00
23	Herbicides	0.00	0.00	0.00	0.00	0.00	30.00	25.00
24	Seed	29.68	28.11	29.68	7.75	19.67	31.80	31.25
25	Planting	12.60	12.60	12.60	5.52	5.53	10.30	10.30
26	Rotary Hoe	20.00	10.00	20.00	0.00	0.00	0.00	0.00
27	Spray/Walk	0.00	4.10	0.00	0.00	0.00	5.05	5.05
28	Cultivation	9.40	28.20	18.80	0.00	0.00	6.65	6.65
29	Windrow Oats	0.00	0.00	0.00	9.10	0.00	0.00	0.00
30	Bale Straw	0.00	0.00	0.00	22.24	0.00	0.00	0.00
31	Bale Stubble	0.00	0.00	0.00	11.53	0.00	0.00	0.00
32	Mow	7.30	0.00	7.30	7.30	21.90	0.00	0.00
33	Rake	0.00	0.00	0.00	4.40	13.20	0.00	0.00
34	Bale Hay	0.00	0.00	0.00	0.00	76.58	0.00	0.00
35	Stack Residues	34.20	5.91	23.60	0.00	0.00	0.00	0.00
36	Move & Stor bales	6.22	1.61	0.00	0.00	43.32	0.00	0.00
37	Grain Harvest	20.15	23.65	20.15	21.40	0.00	24.50	23.65
38	Grain Handling	21.21	3.13	21.11	13.00	0.00	14.50	2.92
39	Shell/Grind	19.28	0.00	19.19	14.45	0.00	0.00	0.00
40	Storage	20.25	4.57	20.15	17.48	0.00	18.77	3.77
41	Hedge/P.L.	0.00	0.00	0.00	0.00	0.00	6.82	1.37
42	Drying cost	0.00	0.00	0.00	0.00	0.00	30.71	0.00
43	Corn RSL	0.00	0.00	0.00	0.00	0.00	5.12	0.00
44	Total Exp.	386.68	289.78	365.07	291.25	346.12	406.94	317.88
45	Cost/bu. or pound	1.76	8.12	1.74	1.70	0.0277	2.39	9.27
46	Labor Return@\$9	42.38	29.52	35.86	36.02	46.27	12.69	13.01
47	Labor&M.R. \$/A.	309.09	25.52	251.12	138.18	106.17	-18.93	-51.05
48	Systems Avg.				166.02		-34.99	

## Econ 2004.xls

	A	B	C	D	E	F	G	H
1	Name of trial				Thompson Farm 2004		Boone	Boone
2	Field/Plot No.	5	2	1	4	3	County	County
3	Crop	Corn	SB	Corn	Oats	Hay	Corn	SB
4	Yield per acre	215.56	63.55	209.39	108.20	15126	192.20	52.00
5	Price	1.65	5.30	1.65	1.50	0.0375	1.65	5.30
6	Crop income	355.67	336.82	345.49	162.30	567.23	317.13	275.60
7	Straw income	0.00	0.00	0.00	84.85	0.00	0.00	0.00
8	Pasture/Stubble	0.00	0.00	0.00	149.06	0.00	0.00	0.00
9	Residue income	182.13	32.28	152.93	0.00	0.00	0.00	0.00
10	Total Income	537.80	369.10	498.42	396.21	567.23	317.13	275.60
11	Expenses							
12	Misc.	8.00	8.00	8.00	0.00	0.00	8.00	8.00
13	Crop Ins.	0.00	0.00	0.00	0.00	0.00	7.00	4.85
14	Interest	1.20	0.84	1.20	0.45	0.83	6.13	3.94
15	Land Charge	135.00	135.00	135.00	135.00	135.00	135.00	135.00
16	Cover crop	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	Chop Stks./C.c.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	Apply NH4	0.00	0.00	0.00	0.00	0.00	6.70	0.00
19	Fall tillage	11.95	0.00	0.00	4.63	4.63	0.00	19.30
20	Spring tillage	15.20	0.00	0.00	6.08	6.08	8.65	16.25
21	Manure Charge	17.73	13.51	17.73	13.51	21.96	0.00	0.00
22	Purch. Fert.	0.00	0.00	0.00	0.00	0.00	66.70	28.45
23	Herbicides	0.00	0.00	0.00	0.00	0.00	32.00	26.00
24	Seed	30.00	19.39	30.00	7.16	23.91	30.00	22.80
25	Planting	12.35	12.35	12.35	7.33	7.33	10.55	10.55
26	Rotary Hoe	10.20	5.10	10.20	0.00	0.00	0.00	0.00
27	Spray/Walk	0.00	7.71	0.00	0.00	0.00	5.00	5.00
28	Cultivation	19.60	19.60	19.60	0.00	0.00	6.65	6.65
29	Windrow Oats	0.00	0.00	0.00	9.60	0.00	0.00	0.00
30	Bale Straw	0.00	0.00	0.00	26.25	0.00	0.00	0.00
31	Bale Stubble	0.00	0.00	0.00	20.51	0.00	0.00	0.00
32	Mow	7.00	0.00	7.00	14.00	21.00	0.00	0.00
33	Rake	0.00	0.00	0.00	8.40	12.60	0.00	0.00
34	Bale Hay	0.00	0.00	0.00	0.00	60.67	0.00	0.00
35	Stack Residues	32.41	6.75	27.21	0.00	0.00	0.00	0.00
36	Mov & Stor bales	0.00	1.82	7.36	15.23	37.05	0.00	0.00
37	Grain Harvest	20.50	23.40	20.50	21.85	0.00	24.15	23.40
38	Grain Handling	23.37	6.42	23.37	10.93	0.00	23.64	6.40
39	Shell/Grind	23.37	0.00	23.37	0.00	0.00	0.00	0.00
40	Storage	22.31	5.50	22.31	12.66	0.00	21.14	5.72
41	Hedge/P.L.	0.00	0.00	0.00	0.00	0.00	7.69	2.08
42	Drying cost	0.00	0.00	0.00	0.00	0.00	36.90	0.00
43	Corn RSL	0.00	0.00	0.00	0.00	0.00	3.84	0.00
44	Total Exp.	390.19	265.39	365.20	313.59	331.06	439.74	324.39
45	Cost/bu. or pound	1.63	4.04	1.55	2.12	0.0219	2.29	6.24
46	Labor Return	42.38	29.52	35.86	36.02	46.27	12.69	13.01
47	Labor&M.R. \$/A.	189.99	133.23	169.08	118.64	282.44	-109.92	-35.78
48	Systems Avg.				178.68		-72.85	

## Econ.2005.xls

	A	B	C	D	E	F	G	H
1	Name of trial				Thompson Farm-2005		Boone	Boone
2	Field/Plot No.	3	5	2	1	4	County	County
3	Crop	Com	SB	Com	Oats	Hay	Com	SB
4	Yield per acre	231.40	71.20	202.72	124.55	16693	192.40	56.30
5	Price	1.55	5.30	1.55	1.50	0.0400	1.55	5.30
6	Crop income	358.67	377.36	314.22	186.83	667.72	298.22	298.39
7	Straw income	0.00	0.00	0.00	112.68	0.00	0.00	0.00
8	Pasture/Stubble	0.00	0.00	0.00	210.44	0.00	0.00	0.00
9	Residue income	113.67	27.56	119.03	0.00	0.00	0.00	0.00
10	Total Income	472.34	404.92	433.25	509.95	667.72	298.22	298.39
11	Expenses							
12	Misc.	8.00	8.00	8.00	0.00	0.00	8.00	8.00
13	Crop Ins.	0.00	0.00	0.00	0.00	0.00	7.00	5.00
14	Interest	1.74	1.17	1.74	0.00	1.16	7.70	4.54
15	Land Charge	140.00	140.00	140.00	140.00	140.00	140.00	140.00
16	Cover crop	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	Chop Stks./C.c.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	Apply NH4	0.00	0.00	0.00	0.00	0.00	6.90	0.00
19	Fall tillage	12.15	0.00	0.00	4.80	4.80	0.00	22.30
20	Spring tillage	16.00	0.00	0.00	6.60	6.60	8.50	16.50
21	Manure Charge	32.00	24.00	32.00	24.00	39.00	0.00	0.00
22	Purch. Fert.	0.00	0.00	0.00	0.00	0.00	78.45	30.15
23	Herbicides	0.00	0.00	0.00	0.00	0.00	32.00	29.20
24	Seed	40.20	27.00	40.20	6.71	26.69	40.20	32.00
25	Planting	13.35	13.35	13.35	7.58	7.58	11.05	11.05
26	Rotary Hoe	15.45	10.30	20.60	0.00	0.00	0.00	0.00
27	Spray/Walk	0.00	7.84	0.00	0.00	0.00	5.25	5.25
28	Cultivation	30.00	20.00	30.00	0.00	0.00	7.15	7.15
29	Windrow Oats	0.00	0.00	0.00	9.90	0.00	0.00	0.00
30	Bale Straw	0.00	0.00	0.00	44.04	0.00	0.00	0.00
31	Bale Stubble	0.00	0.00	0.00	30.45	0.00	0.00	0.00
32	Mow	8.05	0.00	8.05	8.05	24.15	0.00	0.00
33	Rake	0.00	0.00	0.00	4.35	13.05	0.00	0.00
34	Bale Hay	0.00	0.00	0.00	0.00	96.42	0.00	0.00
35	Stack Residues	27.69	6.39	28.99	0.00	0.00	0.00	0.00
36	Move bales/stacks	6.75	0.00	7.07	17.21	26.40	0.00	0.00
37	Grain Harvest	22.60	23.90	22.60	22.50	0.00	24.60	23.90
38	Grain Handling	27.77	7.26	24.33	12.71	0.00	20.97	6.14
39	Shell/Grind	25.45	0.00	22.30	13.70	0.00	0.00	0.00
40	Storage	29.39	9.04	25.75	15.82	16.62	23.09	6.76
41	Hedge/P.L.	0.00	0.00	0.00	0.00	0.00	7.70	2.25
42	Drying cost	0.00	0.00	0.00	0.00	0.00	38.48	0.00
43	Corn RSL	0.00	0.00	0.00	0.00	0.00	3.85	0.00
44	Total Exp.	456.59	298.25	424.98	368.42	402.47	470.89	350.19
45	Cost/bu. or pound	1.79	4.10	1.88	2.12	0.0241	2.45	6.22
46	Labor Return@9.50	44.74	31.16	37.85	38.02	48.84	13.40	13.74
47	Labor&M.R. \$/A.	60.49	137.83	46.12	179.55	314.09	-159.27	-38.06
48	Systems Avg.			147.61			-98.66	
49	Thompson Adv.				246.27			

## Econ 2006.xls

A	B	C	D	E	F	G	H
1 Name of trial				Thompson Farm-2006		Boone	Boone
2 Field/Plot No.	4	3	5	2	1	County	County
3 Crop	Corn	SB	Corn	Oats	Hay	Corn	SB
4 Yield per acre	189.52	60.32	185.89	129.18	17219	172.70	50.00
5 Price	3.25	6.25	3.25	1.75	0.0375	3.25	6.25
6 Crop income	615.94	377.00	604.14	226.07	645.71	561.28	312.50
7 Straw income	0.00	0.00	0.00	88.87	0.00	0.00	0.00
8 Pasture/Stubble	0.00	0.00	0.00	95.95	0.00	0.00	0.00
9 Residue income	100.01	22.46	130.59	0.00	0.00	0.00	0.00
10 Total Income	715.95	399.46	734.73	410.89	645.71	561.28	312.50
11 Expenses							
12 Misc.	9.00	9.00	9.00	0.00	0.00	9.00	9.00
13 Crop Ins.	0.00	0.00	0.00	0.00	0.00	7.00	5.50
14 Interest	1.74	1.17	1.74	0.00	1.16	9.27	5.84
15 Land Charge	136.00	136.00	136.00	136.00	136.00	136.00	136.00
16 Cover crop	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17 Chop Stks./C.c.	0.00	0.00	8.00	0.00	0.00	0.00	0.00
18 Apply NH4	0.00	0.00	0.00	0.00	0.00	7.40	0.00
19 Fall tillage	12.40	0.00	0.00	5.30	5.30	0.00	19.85
20 Spring tillage	16.90	0.00	0.00	8.17	8.18	8.45	8.45
21 Manure Charge	32.00	24.00	32.00	24.00	39.00	0.00	0.00
22 Purch. Fert.	0.00	0.00	0.00	0.00	0.00	78.70	39.05
23 Herbicides	0.00	6.22	0.00	0.00	0.00	32.00	29.20
24 Seed	45.00	33.60	45.00	6.71	29.45	45.00	33.60
25 Planting	13.20	13.20	13.20	7.47	7.48	11.45	11.45
26 Rotary Hoe	5.70	11.40	11.40	0.00	0.00	0.00	0.00
27 Spray/Walk	0.00	10.88	0.00	0.00	0.00	4.90	4.90
28 Cultivation	10.00	20.00	20.00	0.00	0.00	7.50	0.00
29 Windrow Oats	0.00	0.00	0.00	10.05	0.00	0.00	0.00
30 Bale Straw	0.00	0.00	0.00	29.41	0.00	0.00	0.00
31 Bale Stubble	0.00	0.00	0.00	17.88	0.00	0.00	0.00
32 Mow	8.90	0.00	8.90	8.90	26.70	0.00	0.00
33 Rake	0.00	0.00	0.00	9.80	14.70	0.00	0.00
34 Bale Hay	0.00	0.00	0.00	0.00	94.91	0.00	0.00
35 Stack Residues	24.74	5.19	32.30	0.00	0.00	0.00	0.00
36 Move Bales & Stacks	0.00	0.00	0.00	10.61	25.57	0.00	0.00
37 Grain Harvest	23.20	25.00	23.20	22.90	0.00	20.90	25.00
38 Grain Handling	22.72	6.40	22.31	13.69	0.00	19.52	6.05
39 Shell/Grind	20.83	0.00	20.45	14.21	0.00	0.00	0.00
40 Storage	24.04	7.42	23.61	15.89	17.22	19.52	5.65
41 Hedge/P.L.	0.00	0.00	0.00	0.00	0.00	32.81	8.00
42 Drying cost	0.00	0.00	0.00	0.00	0.00	38.34	0.00
43 Corn RSL	0.00	0.00	0.00	0.00	0.00	5.87	0.00
44 Total Exp.	406.37	309.48	407.11	340.99	405.67	493.63	347.54
45 Cost/bu. or pound	1.97	5.04	1.97	2.05	0.0236	2.86	6.95
46 Labor Return@10.50	49.45	34.43	41.83	42.02	53.99	14.81	15.18
47 Labor&M.R. \$/A.	359.03	124.41	369.45	111.92	294.03	82.46	-19.86
48 Systems Avg.			251.77			31.30	
49 Thompson Adv.				220.47			

## Econ2007.xls

	A	B	C	D	E	F	G	H
1	Name of trial		Thompson Farm 2007				Boone	Boone
2	Field/Plot No.	1	4	3	5	2	County	County
3	Crop	Corn	SB	Corn	Oats	Hay	Corn	SB
4	Yield per acre	204.67	61.25	218.72	73.01	11764	180.70	53.70
5	Price	3.70	10.00	3.70	2.60	0.0400	3.70	10.00
6	Crop income	757.28	612.50	809.26	189.83	470.56	668.59	537.00
7	Straw income	0.00	0.00	0.00	70.26	0.00	0.00	0.00
8	Pasture/Stubble	0.00	0.00	0.00	200.65	0.00	0.00	0.00
9	Residue income	151.69	22.31	115.83	0.00	0.00	0.00	0.00
10	Total Income	908.97	634.81	925.09	460.74	470.56	668.59	537.00
11	Expenses							
12	Misc.	9.00	9.00	9.00	0.00	0.00	9.00	9.00
13	Crop Ins.	0.00	0.00	0.00	0.00	0.00	9.00	9.00
14	Interest	1.74	1.17	1.74	0.00	0.00	11.07	6.30
15	Land Charge	147.00	147.00	147.00	147.00	147.00	147.00	147.00
16	Cover crop	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	Chop Stks./C.c.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	Apply NH4	0.00	0.00	0.00	0.00	0.00	7.90	0.00
19	Fall tillage	12.70	0.00	0.00	5.87	5.88	0.00	14.50
20	Spring tillage	9.05	0.00	0.00	7.67	7.68	19.60	19.60
21	Manure Charge	32.00	24.00	32.00	24.00	39.00	0.00	0.00
22	Purch. Fert.	0.00	0.00	0.00	0.00	0.00	87.40	43.20
23	Herbicides/Insecticides	0.00	18.94	0.00	0.00	0.00	24.00	15.00
24	Seed	54.50	23.76	54.50	22.32	14.58	63.50	32.00
25	Planting	13.95	13.95	13.95	7.50	7.50	12.15	7.50
26	Rotary Hoe	5.75	5.75	17.25	0.00	0.00	0.00	0.00
27	Spray/Walk	0.00	0.00	0.00	0.00	0.00	5.65	5.65
28	Cultivation	21.00	31.50	21.00	0.00	0.00	7.75	0.00
29	Windrow Oats	0.00	0.00	0.00	10.55	0.00	0.00	0.00
30	Bale Straw	0.00	0.00	0.00	23.73	0.00	0.00	0.00
31	Bale Stubble	0.00	0.00	0.00	25.55	0.00	0.00	0.00
32	Mow	9.20	0.00	9.20	9.20	27.60	0.00	0.00
33	Rake	0.00	0.00	0.00	10.60	15.90	0.00	0.00
34	Bale Hay	0.00	0.00	0.00	0.00	77.74	0.00	0.00
35	Stack Residues	29.65	5.26	22.84	0.00	0.00	0.00	0.00
36	Mov & Stor bales	7.30	0.00	0.00	15.86	25.15	0.00	0.00
37	Grain Harvest	24.30	25.80	24.30	23.70	0.00	26.60	25.80
38	Grain Handling	24.56	6.74	26.25	8.03	0.00	14.22	4.35
39	Shell/Grind	22.51	0.00	24.06	8.03	0.00	0.00	0.00
40	Storage	25.99	7.90	27.78	9.42	11.76	21.60	6.22
41	Hedge/P.L.	0.00	0.00	0.00	0.00	0.00	34.20	8.80
42	Drying cost	0.00	0.00	0.00	0.00	0.00	39.96	0.00
43	Corn RSL	0.00	0.00	0.00	0.00	0.00	8.80	0.00
44	Total Exp.	450.20	320.77	430.87	359.03	379.79	549.40	353.92
45	Cost/bu. or pound	1.97	5.15	1.82	3.75	0.0323	3.04	6.59
46	Labor Return@11.00	51.80	36.07	43.83	44.02	56.56	15.51	15.90
47	Labor&M.R. \$/A.	510.57	350.11	538.05	145.73	147.33	134.70	198.98
48	Systems Avg.			338.36			166.84	
49	Thompson Adv.				171.52			

## Econ2008.xls

	A	B	C	D	E	F	G	H
1	Name of trial		Thompson Farm				Boone	Boone
2	Field/Plot No.	2	1	4	3	5	County	County
3	Crop	Corn	SB	Corn	Oats	Hay	Corn	SB
4	Yield per acre	228.28	36.70	198.00	74.76	15458	166.00	43.50
5	Price	3.00	8.00	3.00	1.90	0.0450	3.00	8.00
6	Crop income	684.84	293.60	594.00	142.04	695.61	498.00	348.00
7	Straw income	0.00	0.00	0.00	107.00	0.00	0.00	0.00
8	Pasture/Stubble	0.00	0.00	0.00	139.95	0.00	0.00	0.00
9	Residue income	98.58	30.35	93.55	0.00	0.00	0.00	0.00
10	Total Income	783.42	323.95	687.55	388.99	695.61	498.00	348.00
11	Expenses							
12	Misc.	9.00	9.00	9.00	4.50	4.50	10.00	10.00
13	Crop Ins.	0.00	0.00	0.00	0.00	0.00	15.00	8.00
14	Interest	1.89	1.12	1.89	0.49	0.49	13.41	7.29
15	Land Charge	171.00	171.00	171.00	171.00	171.00	171.00	171.00
16	Cover crop	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	Chop Stks./C.c.	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	Apply NH4	0.00	0.00	0.00	0.00	0.00	8.75	0.00
19	Fall tillage	13.60	0.00	0.00	0.00	0.00	10.20	23.90
20	Spring tillage	10.10	0.00	0.00	11.50	11.50	10.10	10.10
21	Manure Charge	32.00	24.00	32.00	24.00	39.00	0.00	0.00
22	Purch. Fert.	0.00	0.00	0.00	0.00	0.00	112.05	89.65
23	Herbicides	0.00	28.33	0.00	0.00	0.00	25.20	15.75
24	Seed	63.00	37.20	63.00	16.34	16.34	73.50	37.20
25	Planting	15.90	15.90	15.90	11.50	11.50	13.20	13.20
26	Rotary Hoe	13.40	0.00	0.00	0.00	0.00	0.00	0.00
27	Spray/Walk	0.00	28.33	0.00	0.00	0.00	5.60	5.60
28	Cultivation	23.40	23.40	23.40	0.00	0.00	8.60	0.00
29	Windrow Oats	0.00	0.00	0.00	11.40	0.00	0.00	0.00
30	Bale Straw	0.00	0.00	0.00	16.43	0.00	0.00	0.00
31	Bale Stubble	0.00	0.00	0.00	19.85	0.00	0.00	0.00
32	Mow	10.70	0.00	10.70	10.70	32.10	0.00	0.00
33	Rake	0.00	0.00	0.00	11.30	16.95	0.00	0.00
34	Bale Hay	0.00	0.00	0.00	0.00	84.98	0.00	0.00
35	Stack Residues	27.00	23.36	27.00	0.00	0.00	0.00	0.00
36	Mov & Stor bales	4.00	3.46	4.00	18.24	28.64	0.00	0.00
37	Grain Harvest	26.70	34.40	26.70	25.30	0.00	38.00	34.40
38	Grain Handling	15.07	2.42	13.07	4.93	0.00	13.94	3.65
39	Shell/Grind	25.11	0.00	21.78	8.22	0.00	0.00	0.00
40	Storage	37.21	5.98	32.27	12.19	27.72	21.41	5.61
41	Hedge/P.L.	0.00	0.00	0.00	0.00	0.00	34.86	9.14
42	Drying cost	0.00	0.00	0.00	0.00	0.00	49.80	0.00
43	Corn RSL	0.00	0.00	0.00	0.00	0.00	6.64	0.00
44	Total Exp.	499.08	407.90	451.71	377.89	444.72	641.26	444.49
45	Cost/bu. or pound	2.00	10.38	2.07	4.03	0.0288	3.86	10.22
46	Labor Return@\$11.00	51.80	36.07	43.83	44.02	56.56	15.51	15.90
47	Labor&M.R. \$/A.	336.14	-47.88	279.67	55.12	307.45	-127.75	-80.59
48	Systems Avg.			186.10				-104.17
49	Thompson Adv.				290.27			

## L&amp;MR99-1.xls

A	B	C	D	E	F	G	H
<b>1</b>	<b>Labor &amp; Management Return, \$/A. (No Government Payment)</b>						
<b>2</b> Crop	1988	1989	1990	1991	1992	1993	1994
<b>3</b>							
<b>4</b> Corn	26.02	-5.11	-25.20	17.78	74.82	95.10	108.67
<b>5</b> Soybeans	112.11	73.65	68.68	53.81	108.84	92.42	209.99
<b>6</b> Corn	76.56	113.49	47.29	68.50	147.27	-31.29	150.40
<b>7</b> Oats	248.02	120.38	10.60	30.31	33.43	16.19	91.43
<b>8</b> Hay	196.94	190.85	84.51	75.25	170.56	184.90	132.68
<b>9</b> Corn avg.	51.29	54.19	11.05	43.14	111.05	31.91	129.54
<b>10</b> C-SB-C avg.	71.56	60.68	30.26	46.70	110.31	52.08	156.35
<b>11</b> O-H avg.	222.48	155.62	47.56	52.78	102.00	100.55	112.06
<b>12</b> C-SB-C-O-H avg.	131.93	98.65	37.18	49.13	106.98	71.46	138.63
<b>13</b>							
<b>14</b> Boone County Corn	-78.20	-18.56	-70.10	-37.93	-21.04	-93.30	-22.85
<b>15</b> Boone County SB	-62.30	-33.70	-42.79	-50.48	-30.58	-64.35	-7.08
<b>16</b> Boone County C/SB avg.	-70.25	-26.13	-56.45	-44.21	-25.81	-78.83	-14.97
<b>17</b>							
<b>18</b> C-SB-C-O-H adv. over BC C/SB	202.18	124.78	93.62	93.34	132.79	150.29	153.60
<b>19</b>							
<b>20</b> Pasture Rotation							
<b>21</b> Corn			67.87	82.99		139.64	181.06
<b>22</b> Soybeans		71.18		92.55	135.13		
<b>23</b> Oats		111.63	32.44		37.67	-6.39	117.21
<b>24</b> Meadow *		97.63	102.56	139.49	109.46	29.89	31.91
<b>25</b> Meadow *		97.63	102.56	139.49	109.46	29.89	31.91
<b>26</b> Meadow *							
<b>27</b> Meadow Rotation avg.		94.52	76.36	113.63	97.93	48.26	90.52
<b>28</b>							
<b>29</b> Corn strips				41.87	-32.52	15.32	46.86
<b>30</b> Soybean strips				65.32	75.66	88.54	89.68
<b>31</b> Oats strips				-55.70	-45.06	-31.21	-31.89
<b>32</b> C-SB-O strips avg.				17.16	-0.64	24.22	34.88
<b>33</b>							
<b>34</b> Thompson Corn conv.		12.80	-55.94	-47.81	-28.18	-67.05	-28.02
<b>35</b> Thompson Soybeans conv.		-12.85	1.69	7.36	2.55	-57.93	45.69
<b>36</b> Thompson C-SB conv. avg.		-0.02	-27.13	-20.23	-12.82	-62.49	8.84
<b>37</b>							
<b>38</b> C-SB-C-O-H adv. over Thompson C/SB		98.68	64.30	69.36	119.80	133.95	129.80
<b>39</b>							
<b>40</b> ISU Year End Prices							
<b>41</b> Corn \$/bu.	2.30	2.20	2.05	2.25	1.90	2.65	2.00
<b>42</b> Soybeans \$/bu.	7.20	5.50	5.70	5.45	5.35	6.55	5.35
<b>43</b> Oats \$/bu.	2.30	1.40	1.10	1.20	1.25	1.40	1.25
<b>44</b> Mixed Hay \$/ton	80.00	70.00	60.00	60.00	70.00	90.00	75.00
<b>45</b> Straw \$/ton	60.00	50.00	45.00	45.00	40.00	50.00	60.00
<b>46</b> Stalks \$/ton	50.00	50.00	50.00	50.00	50.00	50.00	50.00
<b>47</b> * Feeder calf prices, \$/cwt.	90.00	93.75	95.00	88.50	87.50	98.50	75.50
<b>48</b>							
<b>49</b>							
<b>50</b>							
<b>51</b>							
<b>52</b>							

Table 7-6

## L&amp;MR99-1.xls

	A	I	J	K	L	M	N	O
1		<b>Labor &amp; Management Return, \$/A. (No Government Payment)</b>						
2	Crop	1995	1996	1997	1998	1999	2000	2001
3								
4	Corn	316.76	180.81	154.62	104.64	-9.87	76.24	25.05
5	Soybeans	180.43	152.81	200.16	62.92	15.75	54.17	17.46
6	Corn	278.34	194.03	131.69	85.63	11.39	56.23	27.25
7	Oats	107.58	199.19	49.97	56.45	74.88	137.63	115.64
8	Hay	78.81	131.77	45.45	196.11	128.54	208.13	233.40
9	Corn avg.	297.55	187.42	143.16	95.14	0.76	66.24	26.15
10	C-SB-C avg.	258.51	175.88	162.16	84.40	5.76	62.21	23.25
11	O-H avg.	93.20	165.48	47.71	126.28	101.71	172.88	174.52
12	C-SB-C-O-H avg.	192.38	171.72	116.38	101.15	44.14	106.48	83.76
13								
14	Boone County Corn	100.20	-11.42	-0.71	-87.12	-109.50	-75.17	-98.78
15	Boone County SB	33.59	16.67	17.03	-40.88	-92.19	-104.02	-125.24
16	Boone County C/SB avg.	66.90	2.63	8.16	-64.00	-100.85	-89.60	-112.01
17								
18	C-SB-C-O-H adv. over BC C/SB	125.49	169.10	108.22	165.15	144.98	196.08	195.77
19								
20	Pasture Rotation							
21	Corn		254.80			125.65		
22	Soybeans							
23	Oats	78.92		42.95			42.27	
24	Meadow *	-17.98	-7.39	-33.13	-17.72		3.26	
25	Meadow *	-17.98	-7.39	-33.13	-17.72		3.26	
26	Meadow *	-17.98	-7.39	-33.13	-17.72		3.26	
27	Meadow Rotation avg.	6.25	58.16	-14.11	18.12	13.01		
28								
29	Corn strips							
30	Soybean strips							
31	Oats strips							
32	C-SB-O strips avg.							
33								
34	Thompson Corn conv.							
35	Thompson Soybeans conv.							
36	Thompson C-SB conv. avg.							
37								
38	C-SB-C-O-H adv. over Thompson C/SB							
39								
40	ISU Year End Prices							
41	Corn \$/bu.	2.95	2.35	2.45	1.90	1.60	1.85	1.80
42	Soybeans \$/bu.	6.40	6.65	6.85	5.40	4.60	4.65	4.20
43	Oats \$/bu.	1.75	1.95	1.60	1.10	1.20	1.20	1.50
44	Mixed Hay \$/ton	70.00	75.00	70.00	70.00	75.00	75.00	75.00
45	Straw \$/ton	70.00	70.00	50.00	50.00	50.00	50.00	50.00
46	Stalks \$/ton	50.00	50.00	50.00	50.00	50.00	50.00	50.00
47	* Feeder calf prices, \$/cwt.	63.50	63.50	81.50	78.50	84.50	95.00	91.00
48								
49								
50								
51								
52								

Table 7-6

## L&amp;MR99-1.xls

	A	P	Q	R	S	T	U	V
1								
2	Crop	2002	2003	2004	2005	2006	2007	2008
3								
4	Corn	186.81	309.09	189.99	60.49	359.03	510.57	336.14
5	Soybeans	102.20	25.52	133.23	137.83	124.41	350.11	-47.88
6	Corn	192.79	251.12	169.08	46.12	369.45	538.05	279.67
7	Oats	275.68	138.18	118.64	179.55	111.92	145.73	55.12
8	Hay	243.32	106.17	282.44	314.09	294.03	147.33	307.45
9	Corn avg.	189.80	280.11	179.54	53.31	364.24	524.31	307.91
10	C-SB-C avg.	160.60	195.24	164.10	81.48	284.30	466.24	189.31
11	O-H avg.	259.50	122.18	200.54	246.82	202.98	146.53	181.29
12	C-SB-C-O-H avg.	200.16	166.02	178.68	147.62	251.77	338.36	186.10
13								
14	Boone County Corn	-14.66	-18.93	-109.92	-159.27	82.46	134.70	-127.75
15	Boone County SB	-41.78	-51.05	-35.78	-38.06	-19.86	198.98	-80.59
16	Boone County C/SB avg.	-28.22	-34.99	-72.85	-98.67	31.30	166.84	-104.17
17								
18	C-SB-C-O-H adv. over BC C/SB	228.38	201.01	251.53	246.28	220.47	171.52	290.27
19	Thompson Advantage since 2000	206.74	205.31	214.55	219.93	219.84	213.88	222.37
20	Pasture Rotation							
21	Com							
22	Soybeans							
23	Oats							
24	Meadow *							
25	Meadow *							
26	Meadow *							
27	Meadow Rotation avg.							
28								
29	Corn strips							
30	Soybean strips							
31	Oats strips							
32	C-SB-O strips avg.							
33								
34	Thompson Com conv.							
35	Thompson Soybeans conv.							
36	Thompson C-SB conv. avg.							
37								
38	C-SB-C-O-H adv. over Thompson C/SB							
39								
40	ISU Year End Prices							
41	Corn \$/bu.	2.15	2.20	1.65	1.55	3.25	3.70	3.00
42	Soybeans \$/bu.	5.40	7.40	5.30	5.30	6.25	10.00	8.00
43	Oats \$/bu.	1.80	1.55	1.50	1.50	1.75	2.60	1.90
44	Mixed Hay \$/ton	75.00	65.00	75.00	80.00	75.00	80.00	90.00
45	Straw \$/ton	70.00	60.00	60.00	65.00	60.00	70.00	85.00
46	Stalks \$/ton	50.00	50.00	50.00	50.00	50.00	50.00	50.00
47	* Feeder calf prices, \$/cwt.	76.50	101.50	111.50	122.50	105.00	111.50	90.00
48								
49								
50								
51								

Table 7-6

## L&amp;MR99-1.xls

	A	W	X	Y	Z	AA	AB	AC
1								
2	Crop	2009	Average					
3			since 1988					
4	Corn		147.26					
5	Soybeans		106.12					
6	Corn		152.53					
7	Oats		110.31					
8	Hay		178.70					
9	Corn avg.		149.89					
10	C-SB-C avg.		135.30					
11	O-H avg.		144.51					
12	C-SB-C-O-H avg.		138.98					
13								
14	Boone County Corn		-39.90					
15	Boone County SB		-31.16					
16	Boone County C/SB avg.		-35.53					
17								
18	C-SB-C-O-H adv. over BC C/SB		174.52					
19	Thompson Advantage since 2000							
20	Pasture Rotation							
21	Corn		142.00					
22	Soybeans		99.62					
23	Oats		57.09					
24	Meadow *		39.82					
25	Meadow *		39.82					
26	Meadow *		-14.59					
27	Meadow Rotation avg.		54.79					
28								
29	Corn strips		17.88					
30	Soybean strips		79.80					
31	Oats strips		-40.97					
32	C-SB-O strips avg.		18.91					
33								
34	Thompson Corn conv.		-35.70					
35	Thompson Soybeans conv.		-2.25					
36	Thompson C-SB conv. avg.		-18.97					
37								
38	C-SB-C-O-H adv. over Thompson C/SB		102.65					
39								
40	ISU Year End Prices							
41	Corn \$/bu.		2.27					
42	Soybeans \$/bu.		6.07					
43	Oats \$/bu.		1.56					
44	Mixed Hay \$/ton		74.05					
45	Straw \$/ton		57.62					
46	Stalks \$/ton		50.00					
47	* Feeder calf prices, \$/cwt.		90.70					
48								
49								
50								
51								

Table 7-6

## L&amp;MR96-3.xls

	A	B	C	D	E	F	G
1	<b>Labor &amp; Management Return, \$/A. (No Government Payment)</b>						
2							
3	<b>Alternative C-SB-C-O-H System vs. Conventional C-SB Row Crop System</b>						
4							
5					Boone County		Alternative
6	Year		Alternative		Conventional		Difference
7	1988		131.93		-70.25		202.18
8	1989		98.65		-26.13		124.78
9	1990		37.18		-56.45		93.63
10	1991		49.13		-44.20		93.33
11	1992		106.98		-25.81		132.79
12	1993		71.46		-78.83		150.29
13	1994		138.63		-14.97		153.60
14	1995		192.38		66.89		125.49
15	1996		171.72		2.62		169.10
16	1997		116.38		8.16		108.22
17	1998		101.15		-64.00		165.15
18	1999		44.14		-100.85		144.99
19	2000		106.48		-89.60		196.08
20	2001		83.76		-112.01		195.77
21	2002		200.16		-28.22		228.38
22	2003		166.02		-34.99		201.01
23	2004		178.68		-72.85		251.53
24	2005		147.62		-98.67		246.29
25	2006		251.77		31.30		220.47
26	2007		338.36		166.84		171.52
27	2008		186.10		-104.17		290.27
28	2009						
29	Avg. since 1988		138.98		-35.53		174.52
30	Avg. before 2000		104.98		-33.65		138.63
31	Avg. since 2000		184.33		-38.04		222.37
32							
33							
34							
35							

Table 7-7

## L&amp;MR96-4.xls

	A	B	C	D	E
1	Labor & Management Return, Dollars per acre (No government program)				
2					
3	Thompson Alternative C-SB-C O-H System				
4					
5		88-92 Avg.	93-98 Avg.	93-98 Difference	1988-1998 Avg.
6	Corn	17.66	160.10	142.44	95.36
7	Soybeans	83.42	149.79	66.37	119.62
8	Corn	90.62	134.80	44.18	114.72
9	Oats	88.55	86.80	-1.75	87.60
10	Hay	143.62	128.96	-14.66	135.26
11					
12	Average	84.77	132.09	47.32	110.51
13					
14	Boone County Corn-Soybean Rotation				
15					
16	Corn	-45.17	-19.20	25.97	-31.00
17	Soybean	-43.97	-7.50	36.47	-24.08
18					
19	Average	-44.57	-13.35	31.22	-27.54
20					
21	Alternative Advantage	129.34	145.44	16.10	138.05
22					
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Table 7-8

## 2000 econ adv.xls

	A	B	C	D	E	
1	<b>2000 Economics, \$/acre</b>					
2	Thompson Alternative C-SB-C-O-H rotation vs Boone County C-SB rotation					
3		Alt. C-SB-C-O-H	Boone Co. C-SB	Alt. Advantage		
4	<b>Costs</b>					
5	Fertility	16.89	42.60	25.71		
6	Weed Mgt.	16.13	40.60	24.47		
7	Tillage	6.09	20.42	14.33		
8	Misc. Ins. Int.	8.03	19.86	11.83		
9	Seed	19.34	24.01	4.67		
10	Planting	8.81	9.35	0.54		
11	Cover Crop	2.18	0.00	-2.18		
12	Harvesting crop & residue	112.55	57.99	-54.56		
13	Land charge	121.00	121.00	0.00		
14	<b>Totals</b>	311.02	335.83	<b>24.81</b>		
15	<b>Income</b>	Half corn & soybeans				
16	Corn & residue	383.57	236.24	147.33		
17	Soybeans & residue	315.72	236.24	79.48		
18	Corn & residue	360.14	236.24	123.90		
19	Oats & residue	389.12	236.24	152.88		
20	Hay	491.06	236.24	254.82		
21	<b>Average income</b>	387.92	236.24	<b>151.68</b>		
22	<b>Expense savings by crop</b>	Half corn & soybeans				
23	Corn & residue	340.29	335.82	-4.47		
24	Soybeans & residue	284.51	335.82	51.31		
25	Corn & residue	331.80	335.82	4.02		
26	Oats & residue	279.50	335.82	56.32		
27	Hay	318.92	335.82	16.90		
28	<b>Average expense savings</b>	311.00	335.82	<b>24.82</b>		
29	<b>Labor by crop</b>	Half corn & soybeans				
30	Corn & residue	32.96	10.00	22.96		
31	Soybeans & residue	22.96	10.00	12.96		
32	Corn & residue	27.89	10.00	17.89		
33	Oats & residue	28.01	10.00	18.01		
34	Hay	35.99	10.00	25.99		
35	<b>Average labor</b>	29.56	10.00	<b>19.56</b>		
36	<b>Total alternative advantage</b>			<b>196.06</b>		
37						
38	<b>Advantages for alfternative</b>	Income	Expense savings	Labor benefits	Totals	
39	Corn & residues	147.35	-4.47	22.96	165.84	
40	Soybeans & residues	79.48	51.31	12.96	143.75	
41	Corn & residues	123.90	4.02	17.89	145.81	
42	Oats & residues	152.88	56.32	18.01	227.21	
43	Hay	254.82	16.90	25.99	297.71	
44	<b>Averages</b>	<b>151.69</b>	<b>24.82</b>	<b>19.56</b>	<b>196.06</b>	
45						
46						
47						
48						
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Table 7-9

## custom rates vs fixed &amp; variable costs.xls

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Thompson Farm Custom Rates vs. ISU Iowa Fixed & Variable Costs, Dollars Per Acre													
2	Year - Crop	Boone County				Thompson Farm				ISU				
3		Custom Rates				Custom Rates				Fixed & Variable				
4		Corn	Soybeans	Corn	Soybeans	Corn	Soybeans	Hay to C	SB to C	Corn	Soybeans	Corn	Soybeans	Cost per bushel
5	5	288.40	3.31	266.78		2.31	2.15			301.08		2.08		5.15
6	6	1988 - Corn	245.22	10.22		205.35			4.95		236.68			
7	7	1988 - Soybeans	315.53	2.42		283.51		2.49	1.79		324.41		2.24	
8	8	1989 - Corn	272.07	6.56		244.24			4.49		255.27		5.55	
9	9	1989 - Soybeans	323.51	2.72		315.02		2.44	2.10		321.32		2.22	
10	10	1990 - Corn	279.77	7.03		227.08			4.68		254.06		5.52	
11	11	1990 - Soybeans	325.45	2.64		303.54		2.63	2.25		330.06		2.28	
12	12	1991 - Corn	287.81	6.90		253.84			4.79		267.21		5.81	
13	13	1991 - Soybeans	325.77	3.88		289.36		2.84	3.87		335.86		2.17	
14	14	1992 - Corn	342.13	2.09		321.15		1.66	1.57		311.83		2.15	
15	15	1992 - Soybeans	287.33	6.23		234.12			3.87		252.39		5.49	
16	16	1993 - Corn	328.00	8.83		244.40			5.30		261.03		5.22	
17	17	1993 - Soybeans	359.72	2.20		315.27		1.88	1.63		322.03		2.12	
18	18	1994 - Corn	295.40	5.68		238.64			3.17		260.93		5.22	
19	19	1994 - Soybeans	351.88	2.35		331.97		1.74	1.78		345.77		2.23	
20	20	1995 - Corn	290.13	5.92		255.32			4.15		269.00		5.38	
21	21	1995 - Soybeans	371.21	2.49		329.53		1.78	1.69		354.49		2.22	
22	22	1996 - Corn	301.35	6.51		257.38			4.62		276.61		5.53	
23	23	1996 - Soybeans	375.88	2.52		345.65		1.97	1.98		373.17		2.33	
24	24	1997 - Corn	298.60	6.70		251.87			4.10		292.98		5.86	
25	25	1997 - Soybeans	376.95	2.56		331.11		1.72	1.71		376.97		2.36	
26	26	1998 - Corn	304.43	6.49		282.02			4.89		298.28		5.97	
27	27	1998 - Soybeans	368.33	2.37		335.93		2.12	1.96		376.29		2.35	
28	28	1999 - Corn	299.65	6.98		282.86			4.97		299.03		5.98	
29	29	1999 - Soybeans	372.67	2.40		336.05		1.89	2.04		365.90		2.29	
30	30	2000 - Corn	298.80	7.52		284.51			4.40		294.33		5.89	
31	31	2000 - Soybeans	385.85	2.51		356.03		2.10	2.04		386.65		2.42	
32	32	2001 - Corn	303.78	7.58		268.90			4.51		294.99		5.90	
33	33	2001 - Soybeans	397.55	2.29		352.46		1.85	1.74		383.52		2.40	
34	34	2002 - Corn	309.48	6.49		276.44			4.61		296.79		5.94	
35	35	2002 - Soybeans	406.94	2.39		375.88		1.76	1.74		400.54		2.36	
36	36	2003 - Corn	317.88	9.27		298.78			8.12		308.18		9.06	
37	37	2003 - Soybeans	439.74	2.29		377.70		1.63	1.55		425.34		2.50	

Table 7-10

## custom rates vs fixed &amp; variable costs.xls

A	B	C	D	E	F	G	H	I	J	K	L	M	N
Thompson Farm Custom Rates vs. ISU Iowa Fixed & Variable Costs, Dollars Per Acre													
2	Year - Crop	Boone County			Thompson Farm			ISU					
3	Custom Rates	Custom Rates			Custom Rates			Fixed & Variable			Cost per bushel		
4	Custom Soybeans	Corn	Soybeans	Corn	Soybeans	Corn	Soybeans	Cost to C	SB to C	Soybeans	Cost	Soybeans	Cost
5													
39	2004 - Soybeans	324.39		6.24		440.79		265.39		4.04		319.13	
40	2005 - Corn	470.89		2.45									6.38
41	2005 - Soybeans	350.19		6.22		406.74		298.25		4.10		324.38	
42	2006 - Corn	493.63		2.86									6.49
43	2006 - Soybeans	374.54		6.95		440.54		309.48		5.04		348.01	
44	2007 - Corn	549.40		3.04									6.86
45	2007 - Soybeans	353.92		6.59		475.40		320.77		5.15		367.08	
46	2008 - Corn	641.26		3.86									6.67
47	2008 - Soybeans			444.49		10.22		407.90					
48													
49													
50													
51													
52													
53													
54													
55													
56													
57													
58													
59													
60	Avg. Corn	394.41		2.65		349.07		2.03		1.97		386.27	
61	Avg. Soybeans			310.82		7.20		271.79		4.97		285.61	
62													
63													
64													
65													
66													
67													
68													
69													
70													
71													

Table 7-10

		Cost \$ per bushel or pound												Selling Price \$/bu.or#			
		Thompson Alternative System												Boone County			
		Corn				Soybeans				Corn				Soybeans			
2	Year	Corn	Soybeans	Corn	Oats	Corn	Oats	Hay	Corn	Soybeans	Corn	Soybeans	Corn	Soybeans	Oats	Hay	
3	1988	2.31	4.95	2.15	1.50	0.0228	3.31	10.22	2.30	7.20	2.30	7.20	2.30	7.20	2.30	0.0400	
4	1989	2.49	4.49	1.79	1.59	0.0214	2.42	6.56	2.20	5.50	1.40	5.50	1.40	5.50	1.40	0.0350	
5	1990	2.44	4.68	2.10	2.26	0.0253	2.72	7.03	2.05	5.70	1.10	5.70	1.10	5.70	1.10	0.0300	
6	1991	2.63	4.79	2.25	3.13	0.0260	2.64	6.90	2.25	5.45	1.20	5.45	1.20	5.45	1.20	0.0300	
7	1992	1.66	3.87	1.57	2.37	0.0227	2.09	6.23	1.90	5.35	1.25	5.35	1.25	5.35	1.25	0.0350	
8	1993	2.84	5.30	3.87	3.29	0.0268	3.88	8.83	2.65	6.55	1.40	6.55	1.40	6.55	1.40	0.0450	
9	1994	1.88	3.17	1.63	1.86	0.0270	2.20	5.68	2.00	5.35	1.25	5.35	1.25	5.35	1.25	0.0375	
10	1995	1.74	4.15	1.78	2.35	0.0302	2.35	5.92	2.95	6.40	1.75	6.40	1.75	6.40	1.75	0.0350	
11	1996	1.78	4.62	1.69	2.36	0.0276	2.49	6.51	2.35	6.65	1.95	6.65	1.95	6.65	1.95	0.0375	
12	1997	1.97	4.10	1.98	2.30	0.0338	2.52	6.70	2.45	6.85	1.60	6.85	1.60	6.85	1.60	0.0350	
13	1998	1.72	4.89	1.71	2.91	0.0229	2.56	6.49	1.90	5.40	1.10	5.40	1.10	5.40	1.10	0.0350	
14	1999	2.12	4.97	1.96	2.39	0.0282	2.37	6.98	1.60	4.60	1.20	4.60	1.20	4.60	1.20	0.0375	
15	2000	1.89	4.40	2.04	2.09	0.0244	2.40	7.52	1.85	4.65	1.20	4.65	1.20	4.65	1.20	0.0375	
16	2001	2.10	4.51	2.04	2.30	0.0236	2.51	7.58	1.80	4.20	1.50	4.20	1.50	4.20	1.50	0.0375	
17	2002	1.85	4.61	1.74	2.02	0.0232	2.29	6.49	2.15	5.40	1.80	5.40	1.80	5.40	1.80	0.0375	
18	2003	1.76	8.12	1.74	1.70	0.0277	2.39	9.27	2.20	7.40	1.55	7.40	1.55	7.40	1.55	0.0325	
19	2004	1.63	4.04	1.55	2.12	0.0219	2.29	6.24	1.65	5.30	1.50	5.30	1.50	5.30	1.50	0.0325	
20	2005	1.79	4.10	1.88	2.12	0.0241	2.45	6.22	1.55	5.30	1.50	5.30	1.50	5.30	1.50	0.0400	
21	2006	1.97	5.04	1.97	2.05	0.0236	2.86	6.95	3.25	6.25	1.75	6.25	1.75	6.25	1.75	0.0375	
22	2207	1.97	5.15	1.82	3.75	0.0233	3.04	6.59	3.70	10.00	2.60	10.00	2.60	10.00	2.60	0.0400	
23	2008	2.00	10.38	2.07	4.03	0.0288	3.86	10.22	3.00	8.00	1.90	8.00	1.90	8.00	1.90	0.0450	
24	2010																
25	2011																
26	2012																
27	2013																
28	Average	2.03	4.97	1.97	2.40	0.0259	2.65	7.20	2.27	6.07	1.56	6.07	1.56	6.07	1.56	0.0368	
29																	
30	Before-MDPL	2.40	4.68	2.29	2.36	0.0242	2.84	7.63	2.23	5.96	1.44	5.96	1.44	5.96	1.44	0.0358	
31	After-MDPL	1.88	5.08	1.84	2.42	0.0266	2.57	7.02	2.29	6.12	1.61	6.12	1.61	6.12	1.61	0.0372	
32	Difference	0.52	-0.40	0.45	-0.07	-0.0025	0.27	0.60	-0.07	-0.16	-0.17	-0.16	-0.17	-0.16	-0.17	-0.0013	
33																	
34																	

## Hay yields &amp; costs.xls

	A	B	C	D	E	F	G	H	I
1	Hay Yields and Costs per ton								
2	Labor return is \$35.99 per acre								
3		Selling price	Gross income	Total expense	Labor & mgt. net				Margin
4	Yield	\$/ton	\$/A	\$/Acre	\$/A.	Expense cost \$/#	Expense Cost \$/ton	over costs \$/ton	
5	Year	#/A.							
6									
7	1988	9,344	80.00	373.76	212.81	196.94	0.0228	45.55	34.45
8	1989	11,360	70.00	397.60	242.74	190.85	0.0214	42.74	27.26
9	1990	10,400	60.00	312.00	263.48	84.51	0.0253	50.67	9.33
10	1991	9,920	60.00	297.60	258.34	75.25	0.0260	52.08	7.92
11	1992	10,920	70.00	382.20	247.63	170.56	0.0227	45.35	24.65
12	1993	8,163	90.00	367.34	218.43	184.90	0.0268	53.52	36.48
13	1994	9,194	75.00	344.78	248.09	132.68	0.0270	53.97	21.03
14	1995	8,915	70.00	312.03	269.21	78.81	0.0302	60.39	9.61
15	1996	9,679	75.00	362.96	267.18	131.77	0.0276	55.21	19.79
16	1997	7,991	70.00	279.69	270.23	45.45	0.0338	67.63	2.37
17	1998	13,227	70.00	462.95	302.83	196.11	0.0229	45.79	24.21
18	1999	9,947	75.00	373.01	280.46	128.54	0.0282	56.39	18.61
19	2000	13,095	75.00	491.06	318.92	208.13	0.0244	48.71	26.29
20	2001	14,188	75.00	532.05	334.64	233.40	0.0235	47.00	27.83
21	2002	14,502	75.00	543.83	336.50	243.32	0.0232	46.41	28.59
22	2003	12,493	65.00	406.02	346.12	106.17	0.0277	55.41	9.59
23	2004	15,126	75.00	567.23	331.10	282.44	0.0219	43.78	31.22
24	2005	16,693	80.00	667.72	402.47	314.09	0.0241	48.22	31.78
25	2006	17,219	75.00	645.71	405.67	294.03	0.0236	47.12	27.88
26	2007	11,764	80.00	470.56	379.79	147.33	0.0323	64.57	15.43
27	2008	15,458	90.00	695.61	444.72	307.45	0.0288	57.54	32.46
28	2009								
29	2010								
30	2012								
31	2013								
32									
33									
34									
35									
36									
37									
38	Avg.	11,886	74.05	442.18	303.87	178.70	0.0259	51.81	22.23
39	88-99	9,922	72.08	355.49	256.79	134.70	0.0262	52.44	19.64
40	00—	14,504	73.00	508.04	333.49	214.69	0.0241	48.26	24.71
41									
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46									
47									
48									

Table 7-12

## Cornstalk yields &amp; costs.xls

	A	B	C	D	E	F	G	H	I	J
1	Cornstalk Yields & Costs per ton.									
2	*Stacker - Baler prior, 1 BT Corn									
3		Corn		Selling	Gross				Net	Margin
4		Variety	Yield	price	income	Harvest	Harvest	Harvest	income	over costs
5	Year		#/A.	\$/#	\$/A.	cost \$/A.	Cost \$/#	Cost \$/ton	\$/A.	\$/ton
6	1988	P-3295								
7	1989	P-3295	2,250	0.025	56.25	30.75	0.0137	27.33	25.50	22.67
8	1990	DeK-636	2,250	0.025	56.25	30.75	0.0137	27.33	25.50	22.67
9	1991	AsG-746	2,125	0.025	53.13	22.59	0.0106	21.26	30.54	28.74
10	1992	AsG-746	3,474	0.025	86.85	31.71	0.0091	18.26	55.14	31.74
11	1993	AsG-746	3,008	0.025	75.20	26.01	0.0086	17.29	49.19	32.71
12	1994	AsG-746	3,534	0.025	88.35	30.78	0.0087	17.42	57.57	32.58
13	1995	P-3489	3,179	0.025	79.48	34.35	0.0108	21.61	45.13	28.39
14	1996	P-3489	3,469	0.025	86.73	36.33	0.0105	20.95	50.40	29.05
15	1997	P-3489	3,205	0.025	80.13	39.78	0.0124	24.82	40.35	25.18
16	1998	P-3335	2,736	0.025	68.40	35.97	0.0131	26.29	32.43	23.71
17	1999	P-3335	3,331	0.025	83.28	51.18	0.0154	30.73	32.10	19.27
18	2000	P-3335	4,223	0.025	105.58	54.05	0.0128	25.60	51.53	24.40
19	2001	P-33P66	3,803	0.025	95.08	60.09	0.0158	31.60	34.99	18.40
20	!*2002	P-34M94	5,294	0.025	132.35	36.35	0.0069	13.73	96.00	36.27
21	!*2003	P-33P67	7,544	0.025	188.60	40.73	0.0054	10.80	147.87	39.20
22	!*2004	P-33P67	6,701	0.025	167.53	33.49	0.0050	10.00	134.04	40.00
23	!*2005	Pioneer	4,654	0.025	116.35	43.30	0.0093	18.61	73.05	31.39
24	!*2006	Pioneer	4,612	0.025	115.30	37.42	0.0081	16.23	77.88	33.77
25	!*2007	P-33D13	5,653	0.025	141.33	29.90	0.0053	10.58	111.43	39.42
26	!*2008	P-33D13	3,842	0.025	96.05	24.76	0.0064	12.89	71.29	37.11
27				0.025						
28				0.025						
29				0.025						
30				0.025						
31				0.025						
32	Avg.		3,944	0.025	98.61	36.51	0.0101	20.17	62.09	29.83
33	1988-2001		3,122	0.025	78.05	37.26	0.0119	23.88	40.80	26.12
34	2002-2006		5,471	0.025	136.79	35.14	0.0066	13.26	101.65	36.74
35										
36										
37										
38										
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41										
42										

Table 7-13

## Soybean residue &amp; harvesting costs.xls

	A	B	C	D	E	F	G	H	I	J
1	Soybean Residue Yields & Harvesting costs									
2	*Stacker - Baler prior									
3					Gross				Net	Margin
4			Yield	Price	income	Harvest	Harvest	Harvest	income	over costs
5	Year	Variety	#/A.	\$##	\$/A.	cost \$/A.	cost \$##	cost \$/ton	\$/A.	\$/ton
6										
7	1993	Stine-2250	678	0.025	16.95	4.00	0.0059	11.80	12.95	38.20
8	1994	Stine-2250	1,768	0.025	44.20	12.72	0.0072	14.39	31.48	35.61
9	1995	Stine-2250	1,408	0.025	35.20	10.41	0.0074	14.79	24.79	35.21
10	1996	Stine-2671	1,319	0.025	32.98	11.02	0.0084	16.71	21.96	33.29
11	1997	Stine-2250	1,060	0.025	26.50	10.70	0.0101	20.19	15.80	29.81
12	1998	Stine-2250	770	0.025	19.25	8.08	0.0105	20.99	11.17	29.01
13	1999	Stine-2488	728	0.025	18.20	15.49	0.0213	42.55	2.71	7.45
14	2000	Stine-2499	1,501	0.025	37.53	21.38	0.0142	28.49	16.15	21.51
15	2001	Stine-2499	940	0.025	23.50	11.39	0.0121	24.23	12.11	25.77
16	*2002	P-92B63	1,833	0.025	45.83	12.10	0.0066	13.20	33.73	36.80
17	*2003	P-9305	1,145	0.025	28.63	7.52	0.0066	13.14	21.11	36.86
18	*2004	P-92M72	1,291	0.025	32.28	8.57	0.0066	13.28	23.71	36.72
19	*2005	P-92M72	1,102	0.025	27.56	6.39	0.0058	11.60	21.17	38.40
20	*2006	P-92M72	898	0.025	22.46	5.19	0.0058	11.56	17.27	38.44
21	*2007	P-92M72	893	0.025	22.33	5.26	0.0059	11.78	17.07	38.22
22	*2008	P-92M72	1,214	0.025	30.35	8.96	0.0074	14.76	21.39	35.24
23										
24										
25										
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28										
29										
30										
31										
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33										
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35										
36										
37										
38										
39	Avg.		1,159	0.025	28.98	9.95	0.0089	17.72	19.03	32.28
40										
41										
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47										
48										
49										

Table 7-14

## Income, Expense, Labor Adv.

	A	B	C	D	E	F	G	H
1	<b>Thompson 5 yr.Rotation Advantage over Boone County 2yr. C-SB Rotation. \$/A.</b>							
2	Total \$	Income \$	Income %	Expense \$	Expense %	Labor \$	Labor %	
3	Year	Adv.	Adv.	Adv.	Adv.	Adv.	Adv.	Adv.
4	2008-wet	290.27	152.90	52.68	106.62	36.73	30.75	10.59
5	2007	171.52	77.23	45.03	63.53	37.04	30.75	17.93
6	2006	220.47	144.46	65.52	46.67	21.17	29.34	13.31
7	2005	246.27	199.32	80.94	20.40	8.28	26.55	10.78
8	2004	251.53	177.38	70.52	48.98	19.47	25.16	10.00
9	2003	201.01	149.22	74.24	26.63	13.25	25.16	12.52
10	2002	228.38	185.29	81.13	23.53	10.30	19.56	8.56
11	2001	195.77	153.03	78.17	23.18	11.84	19.56	9.99
12	2000	196.07	151.69	77.37	24.82	12.66	19.56	9.98
13	1999	144.99	89.93	62.02	35.49	24.48	19.56	13.49
14	1998	165.15	108.94	65.96	36.65	22.19	19.56	11.84
15	1997	108.22	47.07	43.49	41.59	38.43	19.56	18.07
16	1996	169.10	102.07	60.36	47.46	28.07	19.56	11.57
17	1995	125.49	70.31	56.03	35.44	28.24	19.74	15.73
18	1994	153.60	77.57	50.50	56.46	36.76	19.56	12.73
19	1993	150.29	76.53	50.92	53.99	35.92	19.76	13.15
20	1992	132.79	71.67	53.97	44.50	33.51	16.61	12.51
21	1991	93.33	35.78	38.34	39.87	42.72	17.69	18.95
22	1990	93.63	49.35	52.71	27.66	29.54	16.61	17.74
23	1989	124.78	75.54	60.54	32.63	26.15	16.61	13.31
24	1988-drought	202.18	158.02	78.16	26.46	13.09	17.69	8.75
25	average	174.52	112.06	61.84	41.07	25.23	21.38	12.93
26	Before 2000	138.63	80.23	56.08	39.85	29.92	18.54	13.99
27	After 2000	222.37	154.50	69.51	42.71	18.97	25.15	11.52
28			#DIV/0!		#DIV/0!		#DIV/0!	
29			#DIV/0!		#DIV/0!		#DIV/0!	
30			#DIV/0!		#DIV/0!		#DIV/0!	
31			#DIV/0!		#DIV/0!		#DIV/0!	
32			#DIV/0!		#DIV/0!		#DIV/0!	
33			#DIV/0!		#DIV/0!		#DIV/0!	
34			#DIV/0!		#DIV/0!		#DIV/0!	
35			#DIV/0!		#DIV/0!		#DIV/0!	

Table 7-15

137 Lynn Avenue, Suite 200  
Ames, Iowa 50014