

**REPRESENTATIVE FARMS ECONOMIC
OUTLOOK FOR THE NOVEMBER
1999 FAPRI/AFPC BASELINE**

AFPC Working Paper 99-11

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December 1999

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Executive Summary

The primary objective of the analysis is to determine the representative crop and livestock farms' economic viability by region and commodity throughout the life of the 1996 Farm Bill. The representative farm economic data is developed in cooperation with a panel of producers to describe and simulate representative crop, livestock, and dairy farms. Projected prices, policy variables, and input inflation rates are from the Food and Agricultural Policy Research Institute (FAPRI) November 1999 Baseline. Additionally, many farmers accumulated debt since 1996 due to low yields from the 1996 and 1998 droughts in the South and Southwest and the drought in parts of the Midwest in 1999.

- # Thirty-five of the 43 crop farms have more than a 40 percent chance of cash flow deficits over the 2000-2004 period. Low crop prices for 1998 and 1999 and the prospect for a slow recovery of prices are the major factors behind the poor performance of the crop farms.
- # Thirteen of the 15 feedgrain farms have probabilities greater than 40 percent that they will experience cash flow problems in 2000-2004. Seven of the 15 will likely have high probabilities of having to refinance cash flow deficits. Eleven of the 15 farms have probabilities greater than 40 percent of losing real net worth by 2004. In summary, the financial condition of the 15 feedgrain farms is rated as follows: eleven in poor, three in cautionary, and one in good financial condition by 2004.
- # Six of the 10 wheat farms have a greater than 40 percent probability they will experience cash flow problems in 2000-2004, yet only three wheat farms monitored have high probabilities of refinancing due to cash reserves. In summary, six of the 10 wheat farms are likely to be in poor financial condition by 2004, one in cautionary financial condition, and three in good financial condition by 2004.
- # Seven of the 9 cotton farms are projected to have greater than a 40 percent chance of cash flow deficits in 2000-2004. Three of the 9 will face high probabilities of refinancing deficits. Three of the 9 cotton farms will be in poor financial condition by 2004, four in cautionary financial condition, and two in good financial condition by 2004.
- # Seven of the 9 rice farms are projected to have greater than a 40 percent chance of cash flow deficits over the 2000-2004 planning horizon. Five of the farms will likely have high probabilities of refinancing deficits and six will face high probabilities of losing real net worth. Overall, seven farms will be in poor financial shape, and two will be in good shape by 2004.
- # The dairy farms appear in good financial shape over the 2000-2004 period. Low feed costs and higher cattle prices tend to offset lower milk prices such that only six of the 26 farms have high probabilities of cash flow deficits. In summary, five of the 26 dairy farms are classified in poor financial condition, one in cautionary condition, and 20 in good financial condition by 2004.
- # Increasing cattle prices over the planning horizon help to improve the financial viability of cattle operations. Two of the four cattle operations will likely be in poor financial condition in 2004, one in cautionary shape, and one in good financial condition by 2004.
- # Higher hog prices following the low prices in 1998 and 1999 improve the financial condition of the representative hog farms over the recent past. Three of the 6 farms are expected to have high probabilities of cash flow deficits over the 2000-2004 planning horizon. In summary, two of the 6 farms is classified as being in poor financial condition in 2004, one in cautionary shape, and three in good financial condition by 2004.

**REPRESENTATIVE FARMS ECONOMIC
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1999 FAPRI/AFPC BASELINE**

The farm level economic impacts of projected long term prices under the Federal Agriculture Improvement and Reform Act of 1996 (FAIR) on representative crop and livestock operations are projected in this report. For this report the FAIR Act will be referred to as the 1996 Farm Bill. The analysis was conducted over the 1996-2004 planning horizon using FLIPSIM, AFPC's whole farm simulation model. Data to simulate farming operations in the nation's major production regions came from two sources:

- # Producer panel cooperation to develop economic information to describe and simulate representative crop, livestock, and dairy farms.
- # Projected prices, policy variables, and input inflation rates from the Food and Agricultural Policy Research Institute (FAPRI) November 1999 Baseline.

The primary objective of the analysis is to determine the farms' economic viability by region and commodity throughout the life of the 1996 Farm Bill and beyond.

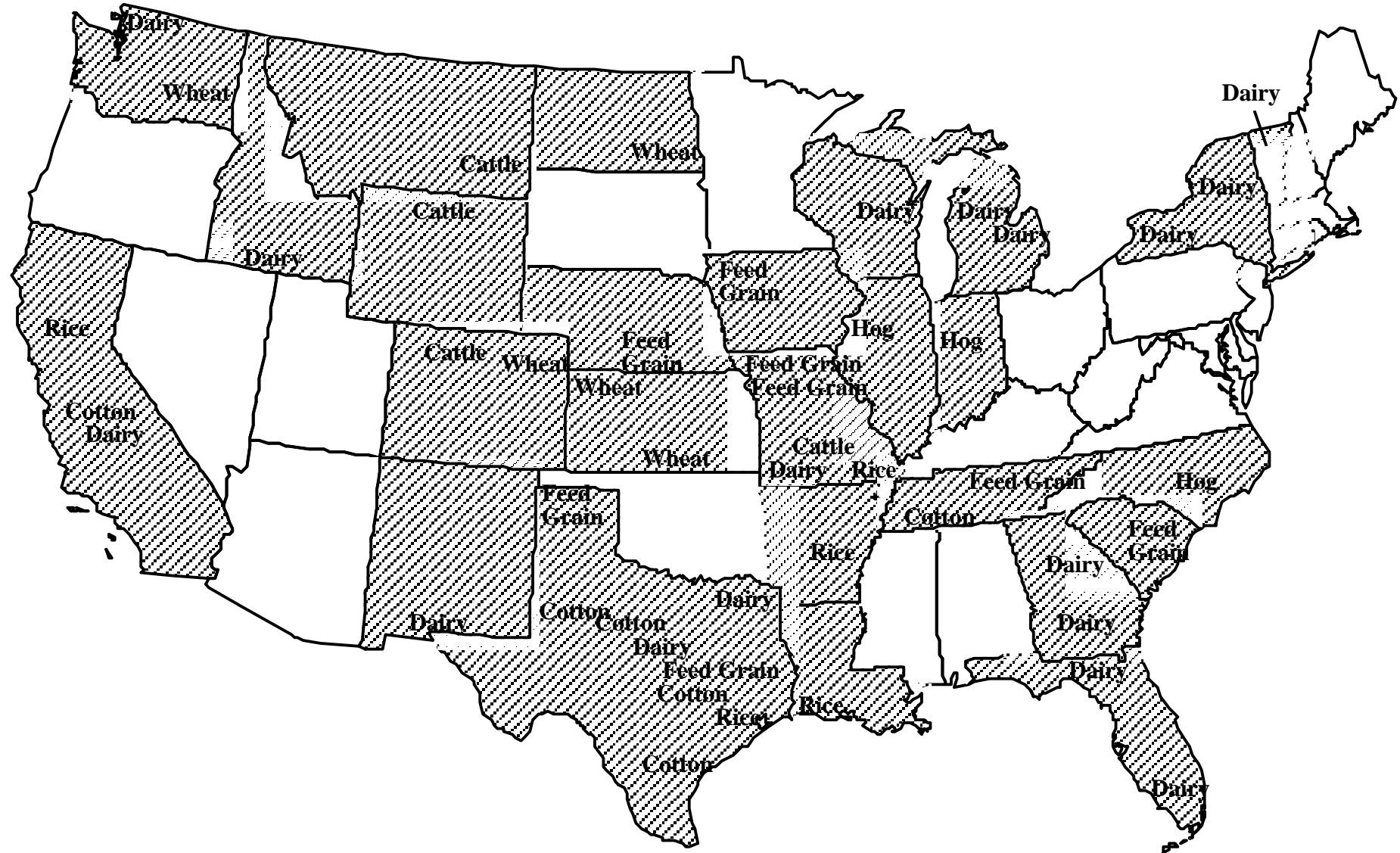
The FLIPSIM policy simulation model incorporates the historical risk faced by farmers for prices and production. This report presents the results of the November 1999 Baseline in a risk context using selected simulated probabilities and ranges for annual net cash farm income values. The probability of a farm experiencing annual cash flow deficits and the probability of having to refinance cash flow deficits are provided to show the financial risk faced by the representative farms. The probability of a farm losing real net worth is included as an indicator of the equity risk facing farms through the year 2004.

This report is organized into ten sections. The first section summarizes the process used to develop the representative farms and the key assumptions for the farm level analysis. The second section summarizes the FAPRI November 1999 Baseline and the policy and price assumptions used for the representative farm analyses. The third through sixth sections present the results of the simulation analyses for feed grain, wheat, cotton, and rice farms. The seventh through ninth sections summarize simulation results for dairy, cattle and hog farms. Two appendices constitute the final section of the report. Appendix A provides tables to summarize the physical and financial characteristics for each of the representative farms. Appendix B provides the names of producers, land grant faculty, and industry leaders who cooperated in the panel interview process.

Panel Process

AFPC has developed and maintains data to simulate more than 80 representative crop and livestock farms chosen from major production areas across the United States (Figure 1). Characteristics for each of the farms in terms of location, size, crop mix, assets, and average receipts are summarized in Appendix A. The location of these farms is primarily the result of discussions with staffers for the House and Senate Agriculture Committees. Information necessary to simulate the economic activity on these representative farms is developed from panels of producers using a consensus building interview process. Normally two farms are developed in each region using separate panels of producers: one is representative of moderate size full-time farm operations, and the second panel usually represents farms two to three times larger.

Figure 1. Representative Farms and Ranches



The data collected from the panel farms are analyzed in the whole farm simulation model (FLIPSIM) developed by AFPC. The producer panels are provided pro-forma financial statements for their representative farm and are asked to verify the accuracy of simulated results for the past year and the reasonableness of a four to five year projection. Each panel must approve of the model's ability to reasonably reflect the economic activity on their representative farm prior to using the farm for policy analyses.

Most of the farms used in the analysis have all been updated with the panels through 1999. All of the crop farms are assumed to begin 1996 with 20 percent intermediate- and long-term debt, based on information provided by ERS-USDA and the panel members. Initial debt levels in 1996 for dairy farms were set at 30 percent; initial debt levels for beef cattle ranches were 1 percent for land and 5 percent for cattle and machinery; and initial debt levels for hog farms were 45 percent.

Key Assumptions

- # All farms classified as moderate scale are the size (acres or number of livestock) considered to be representative of a majority of full-time commercial farming operations in the study area. In many regions, a second farm, two to three times larger than the moderate scale farm is developed as an indicator of size economies.
- # Dairy, hog, and cattle herd sizes are held constant for all farms over the 1996-2004 planning horizon.
- # The farm was structured so government payment limits were not effective at reducing contract payments and loan deficiency payments.
- # Minimum family living withdrawals were assumed at a base rate of 10 percent of gross receipts or \$25,000 annually, whichever is lower. Actual family living withdrawals are determined by historical consumption patterns. Therefore, as the farm's profitability increases so does the level of family living withdrawals.
- # The farm is subject to owner/operator federal (income and self-employment) and state income taxes as a sole proprietor, based on the current tax provisions.
- # No off-farm-related income including family employment was included in the analyses. Therefore, the farm reflects only the ability of the farm to provide for family living and capital replacement.
- # Farm program parameters, average annual prices, crop and livestock yield trends, interest rates, and input cost inflation (deflation) are based on the November 1999 FAPRI Baseline which assumes implementation of the 1996 Farm Bill through 2004.
- # Contract payments for participating cotton, wheat, feed grain, and rice producers are made based on 85 percent of their historical base acreage times farm program yield times a contract payment rate. The contract payment rate is included in the November 1999 FAPRI Baseline.
- # The farms are assumed to be enrolled in the production flexibility program and take full advantage of the flexibility provisions in the 1996 Farm Bill (within the current crop mix). PFC payments are held constant in 2003 and 2004 at their 2002 levels. Crop mix changes after 1999 were estimated based on projected net returns for each of the enterprises currently produced on the farms. During the

update process most of the crop farm panels indicated that they would flex out of their current crop mix, but only if expected net returns per acre from the change exceeded \$40, due to rotation and/or other cultural concerns.

- # Marketing loan provisions for cotton, rice, wheat, feed grains, and soybeans were authorized in the 1996 Farm Bill and are assumed to be in place for the farm level analysis.
- # The farm level simulation model incorporates price and yield risk faced by farmers. Historical yield variability for crops and production for livestock (sale weights and milk/cow) over the past ten years are assumed to prevail for the planning horizon. Market prices for crops and feedstuffs are assumed to be more variable than over the past ten years due to the 1996 Farm Bill provisions, based on recent research by FAPRI. The assumed increase in relative price variability is: 57 percent for feed grains, 40 percent for wheat, 57 percent for soybeans, 34 percent for cotton, 10 percent for rice, 10 percent for cattle and hogs and 50 percent for milk. Random prices are appropriately correlated based on historical correlations, among crop and livestock prices, both within year and across years.
- # To simulate the historical portion of the planning horizon (1996-1999) crop yields were held constant based on actual values obtained from the producers. Average yields for 2000-2004 were simulated based on the average yields provided by the producers and the historical yield variability for the farm. Prices were held constant at producer provided values for 1996-1999. FAPRI's November Baseline prices were localized for the farms and used as the average prices for 2000-2004.
- # The 1996 Farm Bill eliminated the dairy assessments after 1996 and provides for a reduction in the milk support price starting in 1997. Each year the dairy support price falls 15 cents per hundred weight until the support price reaches \$9.90 per hundred weight in 1999. Support price remains at \$9.90/cwt. in 2000 and is eliminated thereafter.
- # Market loss assistance payments and disaster provisions passed in late 1998 and again in 1999 have been incorporated.
- # All farms are assumed to carry MPCI at the 50/100 level.

FAPRI November 1999 Baseline

Projected crop prices for FAPRI's November 1999 Baseline are summarized in Table 1. Corn prices decline from the high of \$2.71/bu. in 1996 to a low of \$1.85/bu. in 1999, but are projected to increase marginally until they reach \$2.16/bu. in 2004. Wheat prices have declined to \$2.46/bu. in 1999, but are expected to increase through 2003 when wheat prices are projected at \$3.19/bu. Cotton prices will likely continue their decline until 1999 reaching a low of \$0.4842/lb. and then increase gradually to \$0.5636/lb. in 2004. Rice prices have declined from the \$9.96/cwt. level realized in 1996 to \$6.31/cwt. in 1999, but are expected to recover to \$7.46/cwt. by 2004.

Assumed loan rates and projected annual contract (AMTA) payment rates, net of 1995 deficiency repayments in 1996 and 1997, are also summarized in Table 1. The farms growing contract commodities were assumed to have accepted the 1995 advance deficiency payments and had the repayments offset against 1996 contract payments for wheat, barley, oats, and upland cotton and the 1997 contract payments for corn and soybeans. The assumed contract or AMTA payment rates for 1998 and 1999 reflect the increase for the 1998 and 1999 market loss assistance payments authorized in those years. Annual contract payments for 2002 are assumed to remain constant for 2003 and 2004.

Projected livestock prices for FAPRI's January 1999 Baseline are summarized in Table 2. Beef cattle prices are projected to increase throughout most of the planning horizon after the drought induced decline in 1998. Actual feeder cattle prices were \$61.31 and \$81.34/cwt. for 1996 and 1997, but declined to \$77.70/cwt. in 1998. Following this one year adjustment prices increased in 1999 to \$81.48/cwt. The recovery of beef prices is projected to continue through 2003, reaching \$93.14/cwt. Hog prices declined after 1996 reaching a low of \$32.34/cwt. in 1999. Hog prices are projected to recover to \$43.52/cwt. in 2002 and then fall to \$40.61/cwt. in 2004. Annual milk prices for the 12 states, where representative dairy farms are located, are summarized in Table 2. The U.S. all milk price increased dramatically in 1998 to \$15.41/cwt. but is projected to decrease to \$12.87/cwt. by 2002 and increase slightly to \$13.12/cwt. by 2004.

Projected annual rates of change for variable cash expenses are presented in Table 3. The rate of change in input prices and interest rates come from FAPRI's November 1999 Baseline which relies on WEFA's macroeconomic projections. Annual interest rates paid for long- and intermediate-term loans and earned for savings are also summarized in Table 3. Assumed annual rates of change in land values over the 2000-2004 period are provided by the FAPRI Baseline and indicate a decrease in nominal land values for 2000-2004 (Table 3).

Definitions of Variables in the Summary Tables

- # **Annual Change in Real Net Worth, 1996-2004** -- annualized percentage change in the operator's net worth from January 1, 1996 through December 31, 2004, after adjusting for inflation. This value reflects the real annualized increase or decrease in net worth or equity for the farm over the planning horizon including changes in real estate values.

- # **Net Income Adjustment (NIA), 1996-2004** -- NIA is the annual increase or decrease in net cash farm income necessary to cause the change in real net worth, including land inflation, to equal zero over the planning horizon. If the change in net worth is negative, the NIA is the annual increase in net income necessary to prevent a loss in total real net worth. NIAs are expressed both as total dollars per year and as a percent of average annual cash receipts.

Table 1. FAPRI November 1999 Baseline Projections of Crop Prices, Loan Rates, and AMTA Payment Rates, 1996-2004

	1996	1997	1998	1999	2000	2001	2002	2003	2004
Crop Prices									
Corn (\$/bu.)	2.71	2.43	1.95	1.85	1.96	2.00	2.06	2.12	2.16
Wheat (\$/bu.)	4.30	3.38	2.65	2.46	2.91	2.99	3.09	3.19	3.16
Cotton (\$/lb.)	0.6930	0.6520	0.6020	0.4842	0.4884	0.5011	0.5185	0.5409	0.5636
Sorghum (\$/bu.)	2.34	2.21	1.70	1.56	1.81	1.89	1.95	2.00	2.04
Soybeans (\$/bu.)	7.35	6.47	5.02	4.77	4.52	4.71	4.87	5.02	5.13
Barley (\$/bu.)	2.74	2.38	1.98	1.96	1.97	1.99	2.05	2.11	2.14
Oats (\$/bu.)	1.96	1.60	1.10	1.07	1.20	1.22	1.25	1.28	1.30
Rice (\$/cwt.)	9.96	9.70	8.83	6.31	6.67	6.81	7.11	7.32	7.46
Soybean Meal (\$/ton)	259.50	175.10	127.00	140.00	132.40	138.40	144.50	147.70	150.80
All Hay (\$/ton)	95.80	102.50	85.10	78.90	79.70	81.80	82.30	82.90	83.80
All Peanuts (cents/lb.)	28.10	28.30	25.00	26.90	27.00	28.10	27.90	27.90	27.90
Additional Peanuts (cents/lb.)	19.00	19.30	17.00	18.40	18.40	19.30	19.10	19.10	19.10
Loan Rates									
Corn (\$/bu.)	1.89	1.89	1.89	1.89	1.89	1.71	1.59	1.59	1.62
Wheat (\$/bu.)	2.58	2.58	2.58	2.58	2.58	2.28	2.18	2.18	2.29
Cotton (\$/lb.)	0.5192	0.5192	0.5192	0.5192	0.5000	0.5000	0.5000	0.5000	0.5000
Sorghum (\$/bu.)	1.81	1.76	1.74	1.74	1.74	1.57	1.47	1.47	1.49
Soybeans (\$/bu.)	4.97	5.26	5.26	5.26	5.16	4.92	4.92	4.92	4.92
Barley (\$/bu.)	1.55	1.57	1.56	1.56	1.56	1.41	1.31	1.31	1.34
Oats (\$/bu.)	1.03	1.11	1.11	1.11	1.11	1.00	0.93	0.93	0.95
Rice (\$/cwt.)	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50	6.50
AMTA Payment Rates									
Corn (\$/bu.)	0.25	0.49	0.56	0.73	0.33	0.27	0.26	0.26	0.26
Wheat (\$/bu.)	0.87	0.63	0.99	1.27	0.59	0.47	0.46	0.46	0.46
Cotton (\$/lb.)	0.0890	0.0760	0.1230	0.1570	0.0710	0.0570	0.0560	0.0560	0.0560
Sorghum (\$/bu.)	0.32	0.54	0.68	0.87	0.40	0.32	0.31	0.31	0.31
Barley (\$/bu.)	0.33	0.28	0.43	0.54	0.25	0.20	0.20	0.20	0.20
Oats (\$/bu.)	0.03	0.03	0.05	0.06	0.03	0.02	0.02	0.02	0.02
Rice (\$/cwt.)	2.77	2.71	4.37	5.68	2.60	2.10	2.04	2.04	2.04

Source: Food and Agricultural Policy Research Institute (FAPRI) at the University of Missouri-Columbia and Iowa State University.

Table 2. FAPRI November 1999 Baseline Projections of Livestock and Milk Prices, 1996-2004

	1996	1997	1998	1999	2000	2001	2002	2003	2004
Cattle Prices									
Feeder Cattle (\$/cwt)	61.31	81.34	77.70	81.48	87.65	89.91	91.83	93.14	90.35
Fat Cattle (\$/cwt)	65.05	66.32	61.48	65.00	70.09	73.31	74.83	75.26	73.73
Culled Cows (\$/cwt)	30.33	34.27	36.19	38.80	43.33	44.98	45.17	46.01	43.00
Hog Prices									
Barrows/Gilts (\$/cwt)	56.53	54.30	34.72	32.34	37.70	42.23	43.52	43.05	40.61
Culled Sows (\$/cwt)	44.61	44.51	24.28	19.18	25.72	28.41	29.56	28.71	26.21
Milk Prices -- National and State									
All Milk Price (\$/cwt)	14.75	13.36	15.41	14.35	13.00	12.89	12.87	13.07	13.12
California (\$/cwt)	13.66	12.62	15.01	13.48	12.45	12.42	12.40	12.60	12.66
Florida (\$/cwt)	18.00	16.50	18.20	17.88	16.85	16.82	16.80	17.00	17.06
Georgia (\$/cwt)	16.30	14.70	16.60	15.85	14.83	14.79	14.77	14.97	15.03
Idaho (\$/cwt)	13.90	12.30	14.50	12.86	11.93	11.75	11.79	12.04	12.07
Michigan (\$/cwt)	15.00	13.60	15.30	14.64	13.62	13.58	13.56	13.77	13.82
Missouri (\$/cwt)	15.10	13.70	15.60	14.41	13.39	13.34	13.33	13.53	13.59
New Mexico (\$/cwt)	13.80	12.90	14.80	13.78	12.25	12.10	12.13	12.37	12.41
New York (\$/cwt)	14.90	13.40	15.40	14.27	12.91	12.84	12.84	13.05	13.10
Texas (\$/cwt)	15.10	13.70	15.70	14.72	13.22	13.14	13.14	13.35	13.40
Vermont (\$/cwt)	15.30	14.30	16.00	15.11	14.60	13.49	13.48	13.69	13.75
Washington (\$/cwt)	14.50	13.20	15.40	14.03	13.10	12.92	12.97	13.21	13.24
Wisconsin (\$/cwt)	14.75	13.33	15.50	13.83	12.82	12.76	12.75	12.96	13.02

Source: Food and Agricultural Policy Research Institute (FAPRI) at the University of Missouri-Columbia and Iowa State University.

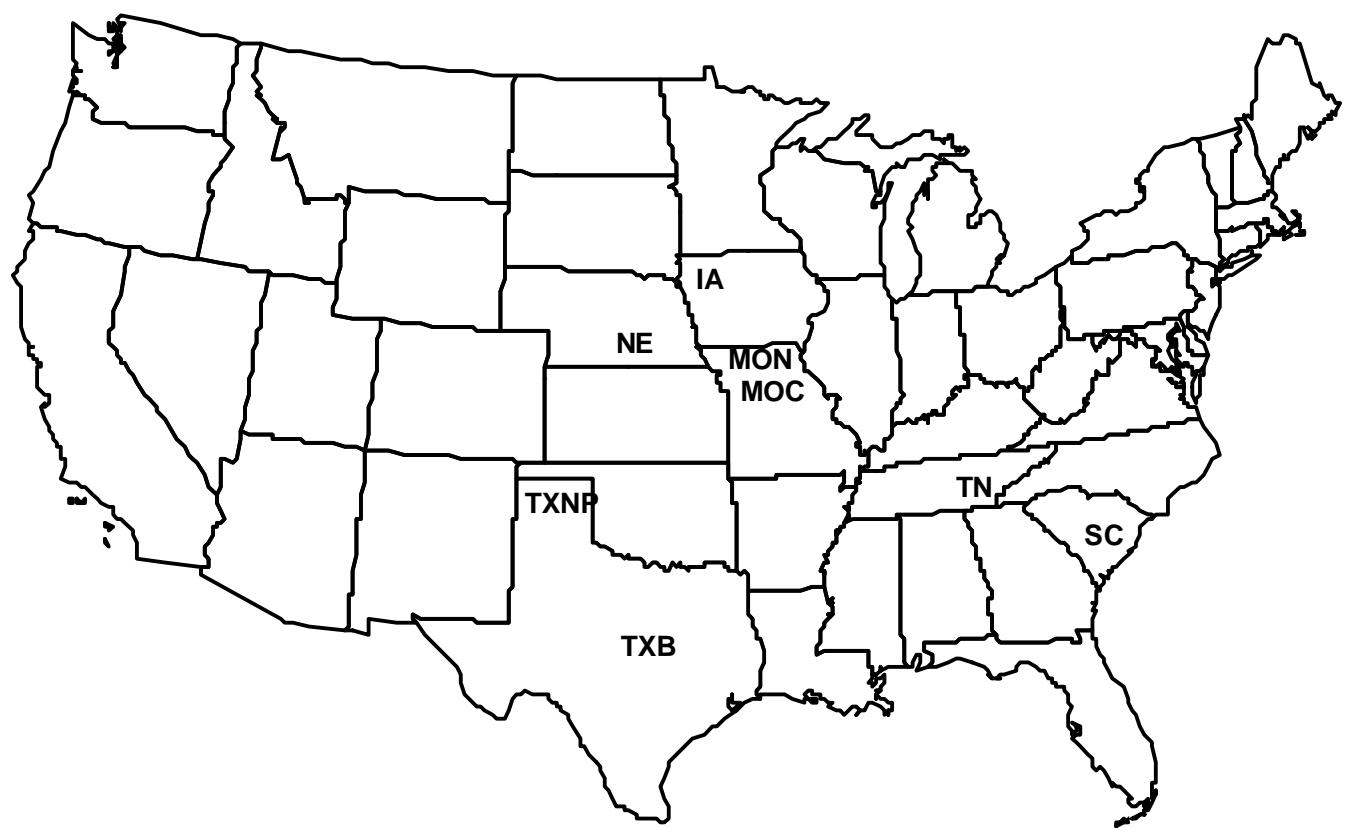
Table 3. FAPRI November 1999 Baseline Assumed Rates of Change in Input Prices, Annual Interest Rates, and Annual Changes in Land Values, 1997-2004

	1997	1998	1999	2000	2001	2002	2003	2004
Annual Rate of Change for Input Prices Paid								
Seed Prices (%)	7.73	4.56	-0.08	-3.66	2.03	1.84	1.77	1.80
Fertilizer Prices (%)	-1.76	-10.32	-1.51	1.61	2.43	1.33	1.36	1.52
Chemical Prices (%)	-2.01	1.82	-1.42	1.80	2.39	2.12	2.12	2.11
Machinery Prices (%)	2.47	2.97	-0.87	1.50	0.75	0.54	-0.06	0.28
Fuel and Lube Prices (%)	0.49	-6.48	-1.67	1.99	3.09	1.59	1.63	1.84
Labor (%)	2.48	3.91	0.89	5.82	4.64	3.82	3.47	4.01
Other Input Prices (%)	-0.06	-2.48	-0.47	1.88	1.52	2.14	2.40	2.37
Non-Feed Dairy Costs (%)	4.04	-1.24	0.92	0.00	0.08	0.78	0.76	1.02
Non-Feed Beef Costs (%)	5.52	-2.17	0.22	3.46	2.09	2.19	2.20	1.35
Non-Feed Hog Costs (%)	-0.89	2.69	-0.04	3.39	1.63	2.39	2.21	2.39
Annual Change in Consumer Price Index (%)	2.34	1.56	2.18	2.50	2.55	2.28	2.38	2.39
Annual Interest Rates								
Long-Term (%)	7.69	7.10	7.53	7.74	7.77	7.60	7.45	7.42
Intermediate-Term (%)	8.44	8.35	7.95	8.23	8.23	8.23	8.23	8.23
Savings Account (%)	4.44	4.35	3.95	4.23	4.23	4.23	4.23	4.23
Annual Rate of Change for U.S. Land Prices (%)	4.40	5.18	1.85	-0.83	-0.72	-2.78	-2.13	-0.98

Source: Food and Agricultural Policy Research Institute (FAPRI) at the University of Missouri-Columbia and Iowa State University.

- # **Cost to Receipts Ratio, 1996-2004** -- average ratio of total cash expenses to total receipts (from all sources). Cash expenses include interest costs, fixed cash costs, and variable costs but exclude principal payments, depreciation, income taxes, and family living expenses. Total receipts include crop and livestock receipts plus government payments and insurance indemnities.
- # **Government Payments/Receipts, 1996-2004** – sum of all farm program payments (AMTA and marketing loan deficiency payments) divided by total receipts received from the market plus contract payments, marketing loans, crop insurance indemnities, and other farm related income.
- # **Total Cash Receipts** -- sum of cash receipts from all sources, including market sales, AMTA (or contract) payments, CCC loans, marketing loan deficiency payments, crop insurance indemnities, and other farm related income. The values in the tables are the average total receipts for each year in the planning horizon.
- # **Net Cash Farm Income** -- equals total cash receipts minus all cash expenses. Net cash farm income is used to pay family living expenses, principal payments, income taxes, self employment taxes, and machinery replacement costs. The values in the tables are the averages for each year in the planning horizon.
- # **Probability of a Cash Flow Deficit** -- is the number of times out of 100 that the farm's annual net cash farm income does not exceed cash requirements for family living, principal payments, taxes (income and self-employment), and actual machinery replacement expenses (not depreciation). This probability is reported for each year of the planning horizon to indicate whether the cash flow risk for a farm increases or decreases over the planning horizon.
- # **Ending Cash Reserves** -- equals total cash on hand at the end of the year. Ending cash equals beginning cash reserves plus net cash farm income and interest earned on cash reserves less principal payments, federal taxes (income and self employment), state income taxes, family living withdrawals, and actual machinery replacement costs (not depreciation).
- # **Probability of Refinancing Deficits** -- is the number of times out of 100 that cash flow deficits are greater than available cash reserves. This probability is reported for each year of the planning horizon to indicate whether the financial risk for a farm increases or decreases over the planning horizon.
- # **Nominal Net Worth** -- equity at the end of each year equals total assets including land minus total debt from all sources. Net worth is not adjusted for inflation and averages are reported for each year in the planning horizon.
- # **Probability of Losing Real Net Worth** -- is the number of times out of 100 that real net worth is less than the net worth for the farm at the beginning of 2000. The probability is reported for each year of the planning horizon to indicate whether the equity risk is increasing or decreasing from the base year of 1999.

FIGURE 2. REPRESENTATIVE FARMS PRODUCING FEED GRAINS



Feed Grain and Oilseed Farm Notes

Table 4. Implications of the 1996 Farm Bill and the November 1999 FAPRI Baseline on the Economic Viability of Representative Farms Primarily Producing Feed Grains.

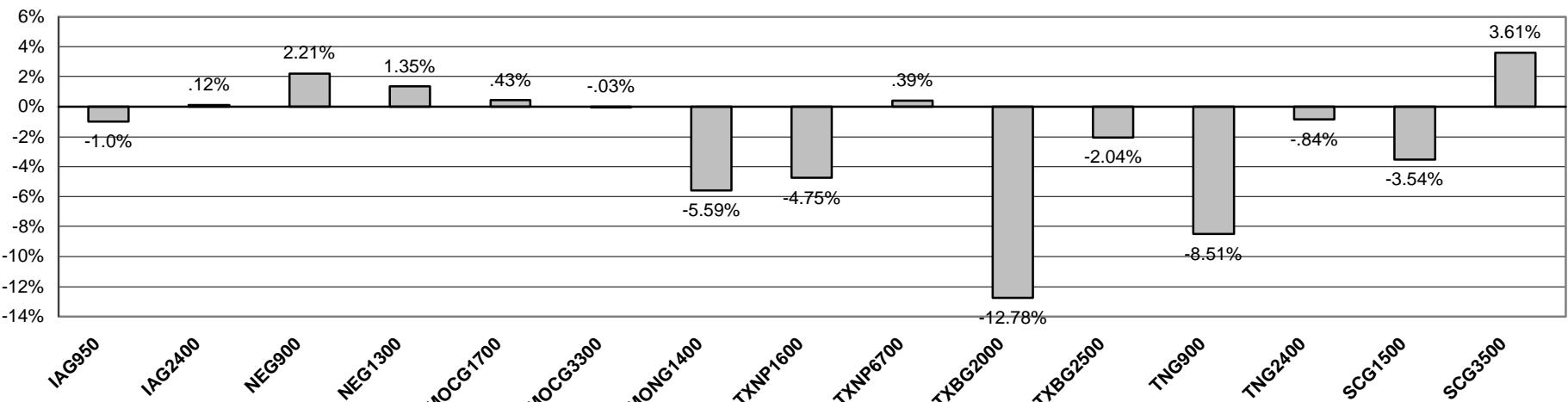
	IAG950	IAG2400	NEG900	NEG1300	MOCG1700	MOCG3300	MONG1400
Annual Change Real Net Worth (%)							
1999-2004 Average	-0.995	0.118	2.207	1.347	0.428	-0.034	-5.589
Net Income Adjustment (NIA) 1999-2004 (\$1,000)	12.07	0	-26.99	-23.19	-11.59	0	95.29
Net Income Adjustment (NIA) 1999-2004 (% Receipts)	4.77	0	-8.6	-5.19	-3.42	0	25.5
Cost to Receipts Ratio (%) 2000-2004 Average	81.53	81.58	68.09	70.77	68.40	73.09	106.63
Govt Payments/Receipts (%) 2000-2004 Average	12.70	12.95	13.55	12.29	11.04	12.22	6.85
Total Cash Receipts (\$1000)							
1996	351.85	761.36	408.97	569.17	430.48	725.96	482.26
1997	296.68	643.87	402.56	550.11	415.77	740.12	580.82
1998	213.54	464.65	296.55	404.23	351.47	613.07	366.61
1999	275.83	616.44	328.09	446.58	347.46	632.73	352.8
2000	250.69	553.31	309.3	437.73	339.16	642.4	363.38
2001	247.07	545.17	304.48	435.01	332.22	628.12	363.4
2002	251.66	555.49	308.16	439.2	340.3	642.81	373.16
2003	260.01	574.26	320.34	454.68	353.3	665.27	382.52
2004	265.49	586.49	327.55	468.52	354.67	667.78	386.28
Net Cash Farm Income (\$1000)							
1996	143.5	367.83	194.74	235.76	231.45	312.74	84.65
1997	93.62	238.58	189.59	229.96	206.27	320.16	143.92
1998	21.47	43	94.02	99.33	153.7	205.18	21.41
1999	80.66	187.89	122.75	146.18	134.31	200.24	17.47
2000	58.07	127.47	107.58	139.54	122.25	207.22	12.17
2001	53.49	113.19	104.03	135.95	106.21	180.72	-1.45
2002	55.68	118.01	109.26	141.28	115.28	187.64	-5.52
2003	57.67	131.09	121.74	150.76	129.35	206.6	-5.82
2004	58	134.89	118.6	154.61	123.02	202.88	-15.02
Prob. of a Cash Flow Deficit (%)							
2000	43	50	46	16	24	41	99
2001	52	47	53	26	38	57	99
2002	61	51	30	28	49	56	99
2003	69	52	38	27	48	57	99
2004	78	66	42	38	55	61	99
Ending Cash Reserves (\$1000)							
1996	62.88	175.76	85.56	96.95	99.07	104.46	-25.94
1997	77.62	196.24	137.61	175.57	174.89	213.98	-6.63
1998	30.71	118.34	139.73	166.5	203.93	231.29	-87.5
1999	49.99	177	158.11	199.76	255.16	273.65	-133.95
2000	50.64	173.86	167.17	241.83	288.73	306.54	-220.67
2001	51.91	181.6	173.78	279.53	307.46	298.28	-315.16
2002	44.41	175.51	197.6	314.82	321.26	287.9	-424.65
2003	33.37	178.55	224.13	350.58	341.29	277.3	-535.33
2004	13.98	155.59	241.48	375.07	350.72	259.52	-657.9
Prob. of Refinancing Deficits (%)							
2000	12	3	1	1	1	1	99
2001	18	5	1	1	1	1	99
2002	27	10	1	1	1	5	99
2003	34	16	3	1	1	9	99
2004	49	19	4	1	1	9	99
Nominal Net Worth (\$1000)							
1996	833.55	1387.98	832.01	1104.52	1678.51	2810.27	1544.15
1997	889.46	1494.37	918.81	1200.27	1826.64	3056.5	1684.73
1998	899.34	1501.2	950.74	1219.55	1954.5	3247.31	1630.85
1999	946.59	1603.91	991.85	1268.74	2029.69	3345.37	1628.12
2000	962.45	1614.86	1008.79	1286.02	2056.77	3370.69	1573.14
2001	964.01	1635.02	1027.82	1308	2069.86	3378.39	1503.3
2002	941.08	1612.18	1057.68	1314.41	2054.14	3332.45	1385.32
2003	916.36	1614	1078.48	1333.65	2061.76	3318.93	1279.58
2004	901.37	1616.7	1103.58	1356.99	2077.45	3346.5	1175.54
Prob. of Losing Real Net Worth (%)							
2000	32	43	44	37	31	45	74
2001	34	37	33	32	26	40	82
2002	55	50	25	31	39	55	92
2003	63	47	22	28	42	58	97
2004	64	50	18	23	38	51	99

Table 5. Implications of the 1996 Farm Bill and the November 1999 FAPRI Baseline on the Economic Viability of Representative Farms Primarily Producing Feed Grains.

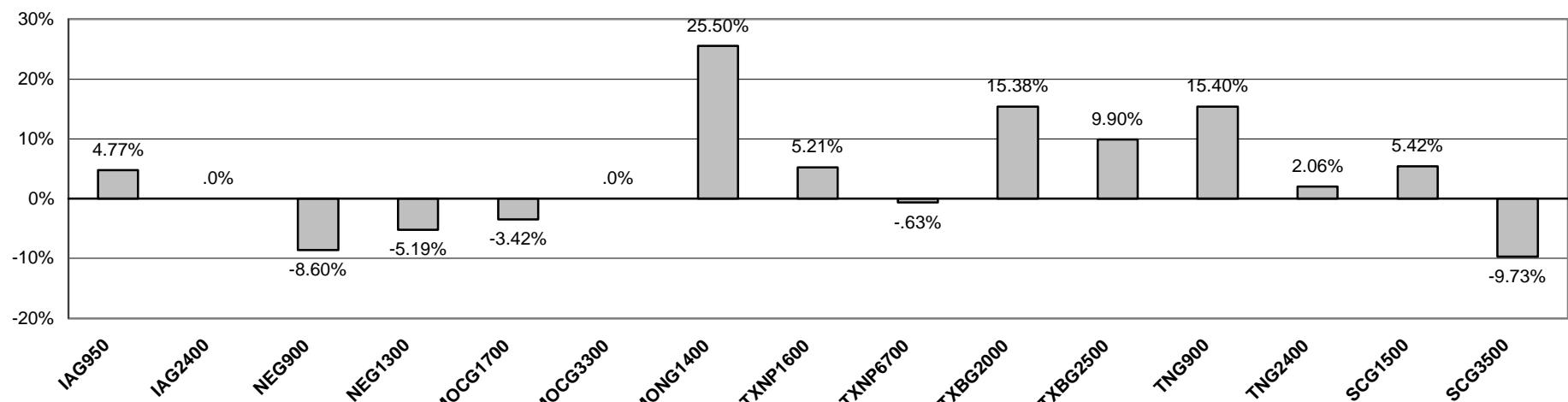
	TXNP1600	TXNP6700	TXBG2000	TXBG2500	TNG900	TNG2400	SCG1500	SCG3500
Annual Change Real Net Worth (%)								
1999-2004 Average	-4.749	0.392	-12.778	-2.043	-8.509	-0.842	-3.538	3.609
Net Income Adjustment (NIA) 1999-2004 (\$1,000)	21.88	-9.95	51.04	24.42	40.6	13.82	26.34	-126.69
Net Income Adjustment (NIA) 1999-2004 (% Receipts)	5.21	-0.63	15.38	9.9	15.4	2.06	5.42	-9.73
Cost to Receipts Ratio (%) 2000-2004 Average	92.573	88.187	101.63	92.988	98.935	87.368	92.451	76.577
Govt Payments/Receipts (%) 2000-2004 Average	9.834	9.185	13.418	8.21	7.981	10.259	11.174	10.301
Total Cash Receipts (\$1000)								
1996	385.45	2044.45	230.66	263.48	323.01	875.71	615.53	1633.87
1997	337.08	1763.97	509.95	472.3	322.14	818.59	633.66	1656.14
1998	329.6	1344.08	343.73	466.58	227.38	576.29	315.59	873.38
1999	412.22	1643.44	373.65	398.19	210.72	534.81	386.32	1025.8
2000	409.96	1547.12	320.59	306.95	288.27	715.05	481.17	1268.96
2001	401.62	1544.2	323.35	296.73	257.92	636.45	467.13	1253.08
2002	418.76	1569.19	326.86	297.53	261.54	652.53	479.77	1285.35
2003	431.58	1636.26	340.54	310.24	270.81	673.8	495.56	1339.32
2004	438.43	1673.66	347.61	265.18	274.73	684.04	506.02	1363.21
Net Cash Farm Income (\$1000)								
1996	110.49	801.24	-62.28	-10.2	82.86	333.59	213.15	681.59
1997	76.7	561.52	188.1	193.5	81.76	286.45	228.64	709.45
1998	18.56	140.16	42.94	197.11	-8.5	46.3	-65.78	-42.07
1999	79.19	340.86	68.21	133.1	-28.31	3.69	-11.99	100.91
2000	73.89	235.99	13.91	49.42	42.8	169.39	66.03	318.86
2001	57.41	208.52	5.66	37.38	9.88	83.2	42.79	291.09
2002	64.96	216.85	4.78	34.89	6.08	86.47	42.31	316.67
2003	64.23	257.8	11.04	44.38	4.48	103.3	50.54	360.98
2004	64.07	266.92	4.01	22.46	0.91	100.29	52.89	378.03
Prob. of a Cash Flow Deficit (%)								
2000	56	57	90	66	99	25	71	23
2001	66	55	95	67	96	80	87	38
2002	63	57	96	53	99	74	87	41
2003	76	54	93	51	99	74	88	38
2004	75	58	97	72	99	78	91	35
Ending Cash Reserves (\$1000)								
1996	55.1	390.62	-95.18	-47.61	27.63	187.73	97.55	324.76
1997	78.55	566	39.62	80.63	44.56	325.28	193.13	627.69
1998	47.67	428.09	13.11	177.55	-19.53	244.68	54.01	391.15
1999	72.67	547.27	17.13	237.1	-79	183.7	-38.64	296.97
2000	65.2	531.73	-28.74	229.7	-75.03	266.96	-37.31	420.32
2001	37	515.66	-85.41	216.96	-110.49	199.13	-85.95	454.28
2002	19.02	479.97	-135.94	212.01	-157.03	125.66	-145.87	500.52
2003	-17.31	463.1	-166.38	212.3	-223.43	76.66	-196.31	564.68
2004	-57.45	448.41	-236.45	181.53	-299.66	8.04	-230.27	665.58
Prob. of Refinancing Deficits (%)								
2000	16	1	79	1	99	1	71	1
2001	31	3	93	1	96	6	79	1
2002	41	11	94	1	99	31	84	4
2003	49	10	91	4	99	37	85	4
2004	56	22	95	11	99	50	88	2
Nominal Net Worth (\$1000)								
1996	381.49	2024.42	241.73	637.62	553.25	1315.51	770.72	2432.19
1997	398.98	2253.81	377.34	808.74	599.69	1490.45	893.63	2825.65
1998	370.86	2218.06	352.46	933.5	561.47	1462.16	787.52	2713.31
1999	394.31	2363.13	362.49	953.96	502	1401.63	726.24	2712.81
2000	390.26	2369.04	322.24	940.19	503.47	1478.86	731.15	2845.53
2001	371.08	2384.51	274	929	465.37	1432.59	693.29	2920
2002	347.9	2369.68	221.9	904.06	409.37	1373.94	641.88	2976.17
2003	322.26	2378.07	193.97	890.18	350.86	1367.23	606.1	3063.21
2004	301.31	2414.4	131.16	858.28	289.03	1345.36	599.02	3208.92
Prob. of Losing Real Net Worth (%)								
2000	53	51	85	68	46	25	50	23
2001	59	50	93	67	70	47	69	16
2002	54	45	95	77	86	52	74	19
2003	56	55	92	74	88	55	74	12
2004	59	45	95	82	96	53	76	4

Figure 3. Feed Grain Farms

Average Annual Percentage Change in Real Net Worth 1999-2002

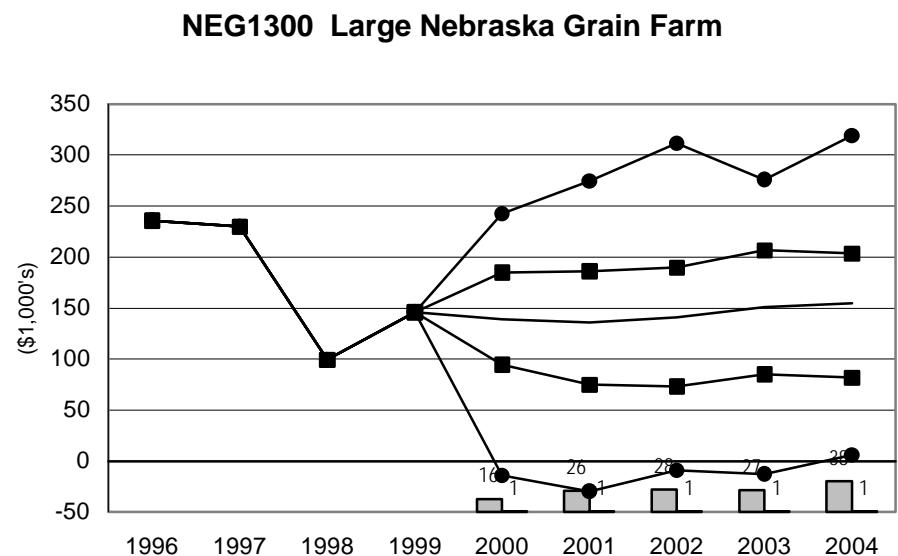
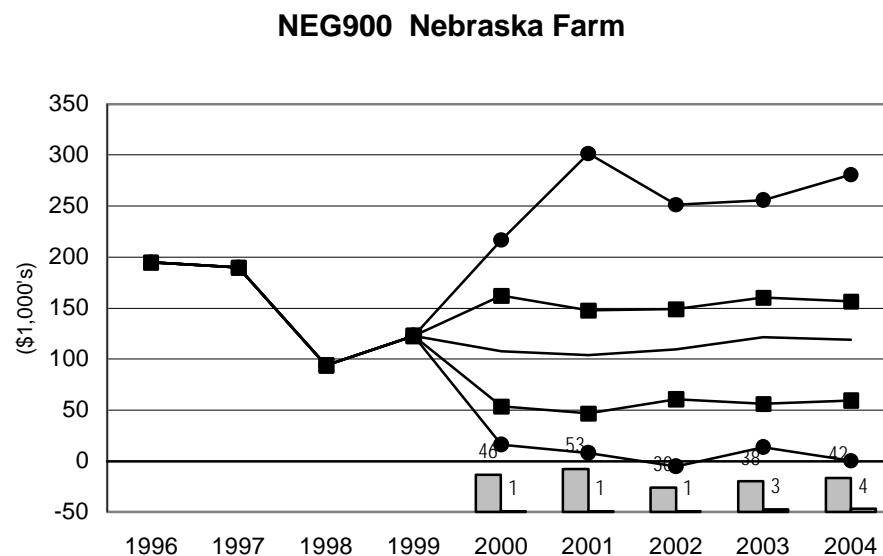
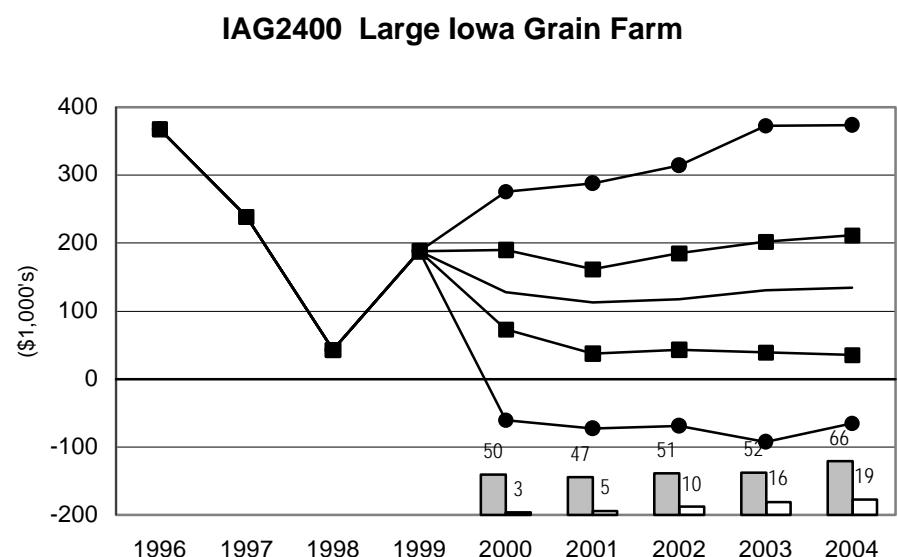
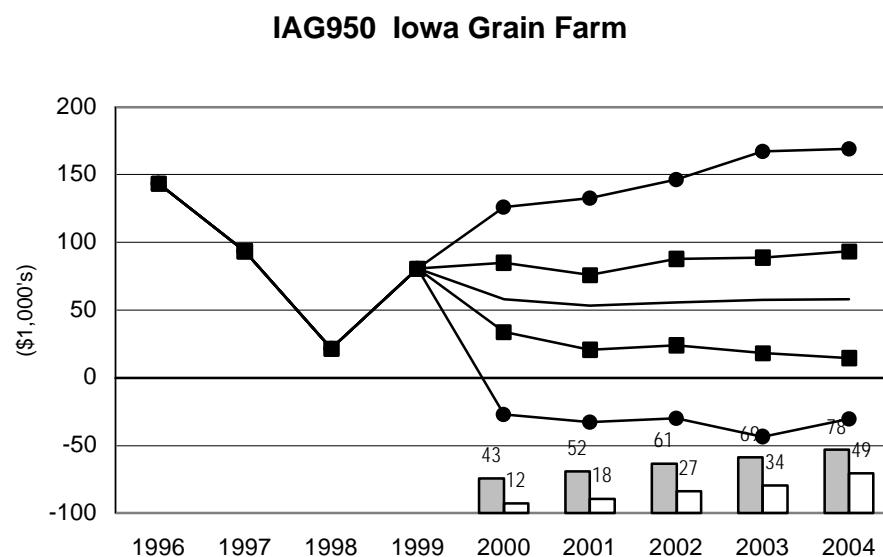


Average Annual Percentage Change in Receipts 1999-2002 Needed to Maintain 1999 Net Worth



**Figure 4. Net Cash Farm Income and Probabilities of a Cash Flow Deficit and Refinancing:
Feed Grain Farms**

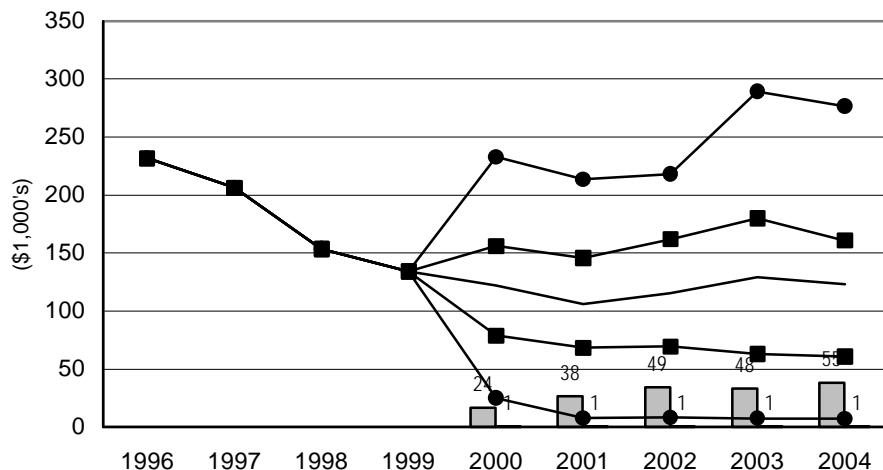
— Mean NCFY ■ 25 & 75 Percentile NCFY ● 5 & 95 Percentile NCFY ■ Prob. of Cash Flow Deficit □ Prob. of Refinancing



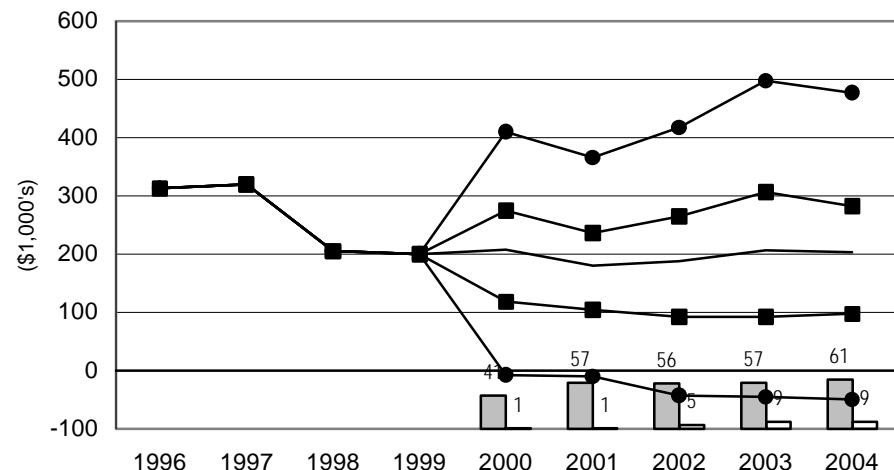
**Figure 5. Net Cash Farm Income and Probabilities of a Cash Flow Deficit and Refinancing:
Feed Grain Farms**

— Mean NCFY ■ 25 & 75 Percentile NCFY ● 5 & 95 Percentile NCFY ■ Prob. of Cash Flow Deficit □ Prob. of Refinancing

MOCG1700 Central Missouri Grain Farm



MOCG3300 Large Central Missouri Grain Farm



MONG1400 Northwest Missouri Grain Farm

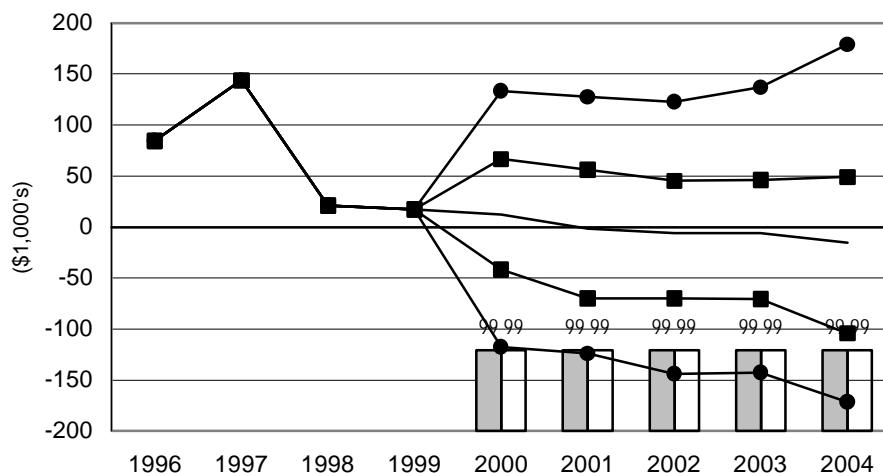
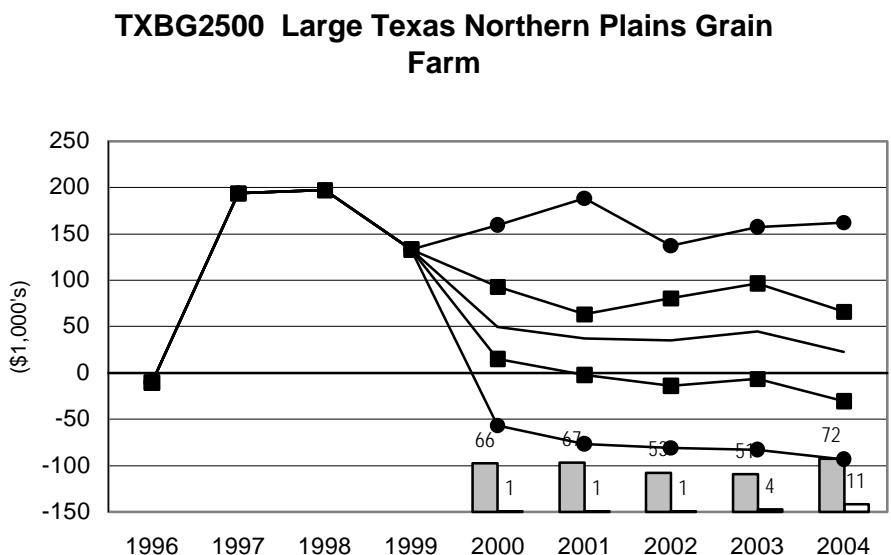
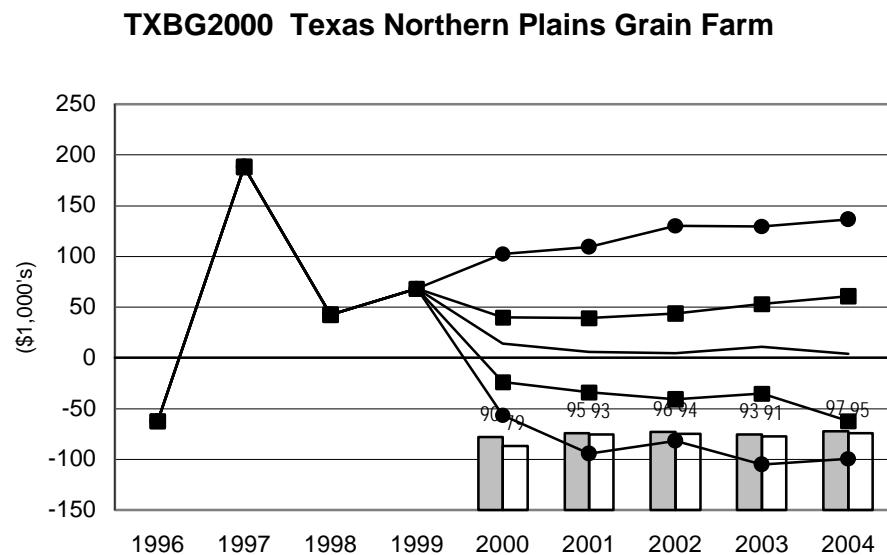
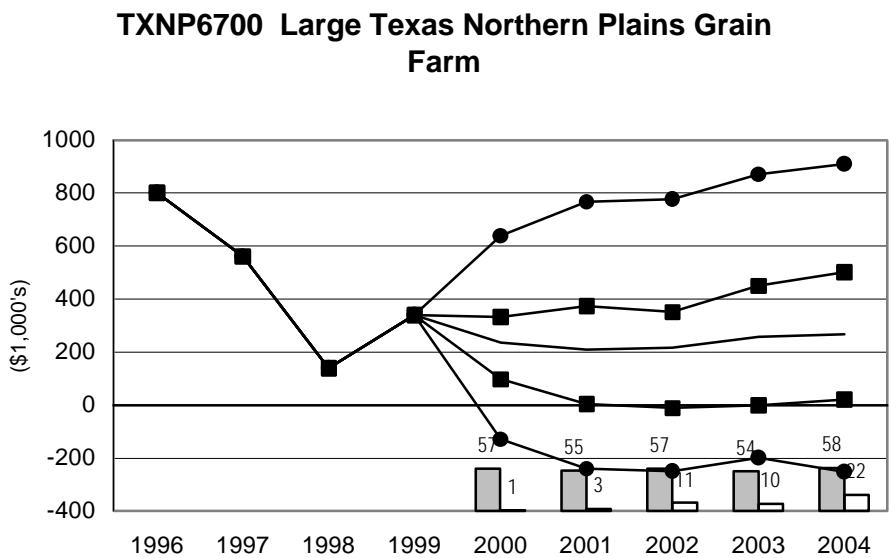
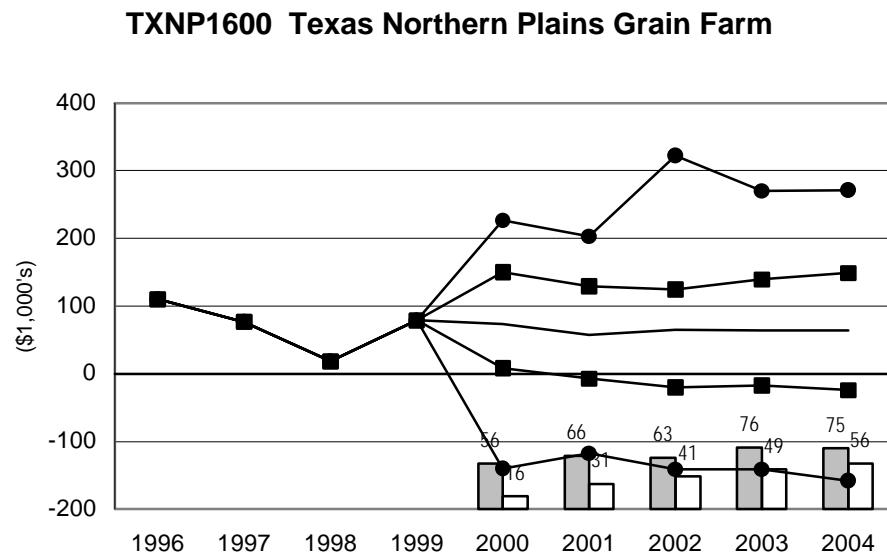


Figure 6. Net Cash Farm Income and Probabilities of a Cash Flow Deficit and Refinancing: Feed Grain Farms

— Mean NCFY ■ 25 & 75 Percentile NCFY ● 5 & 95 Percentile NCFY ■ Prob. of Cash Flow Deficit □ Prob. of Refinancing



**Figure 7. Net Cash Farm Income and Probabilities of a Cash Flow Deficit and Refinancing:
Feed Grain Farms**

— Mean NCFY ■ 25 & 75 Percentile NCFY ● 5 & 95 Percentile NCFY ■ Prob. of Cash Flow Deficit □ Prob. of Refinancing

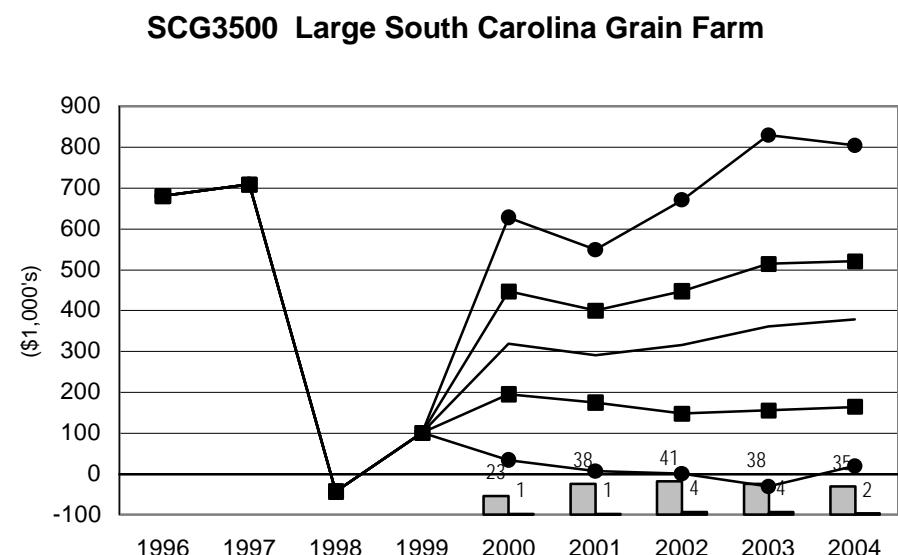
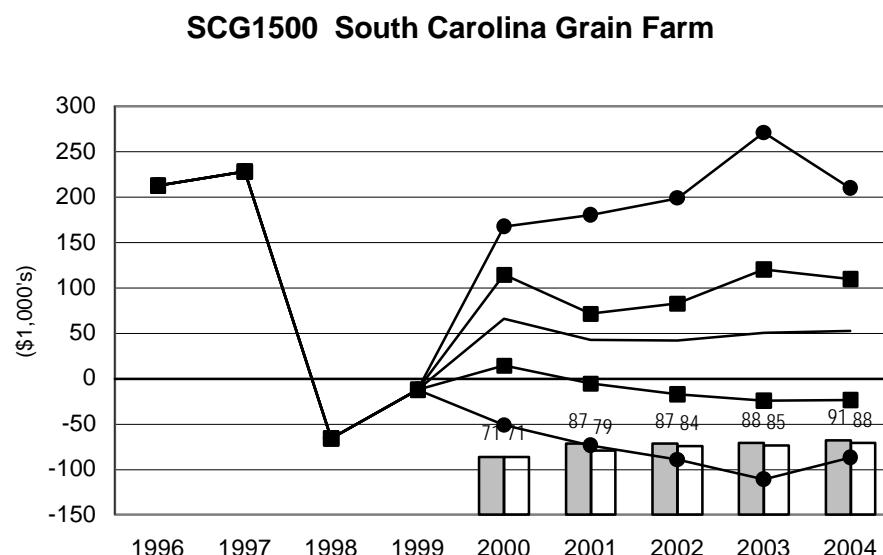
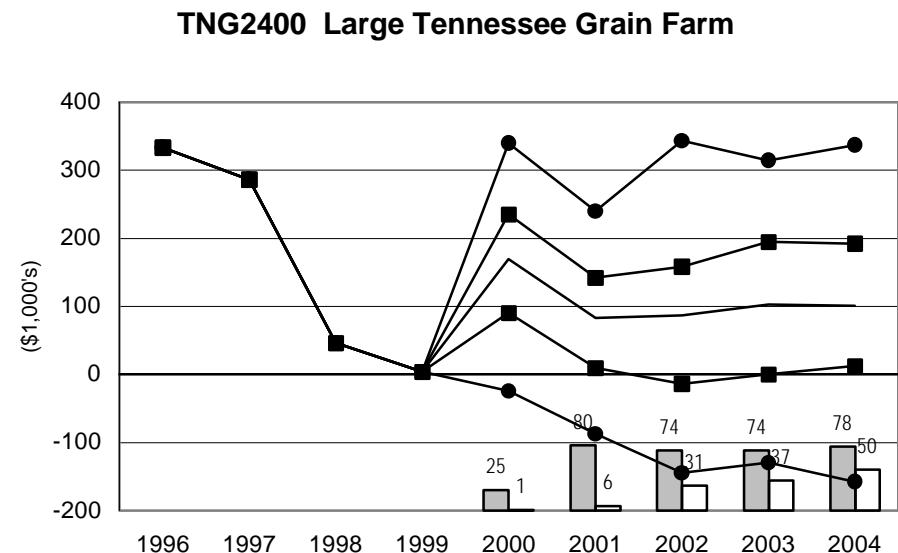
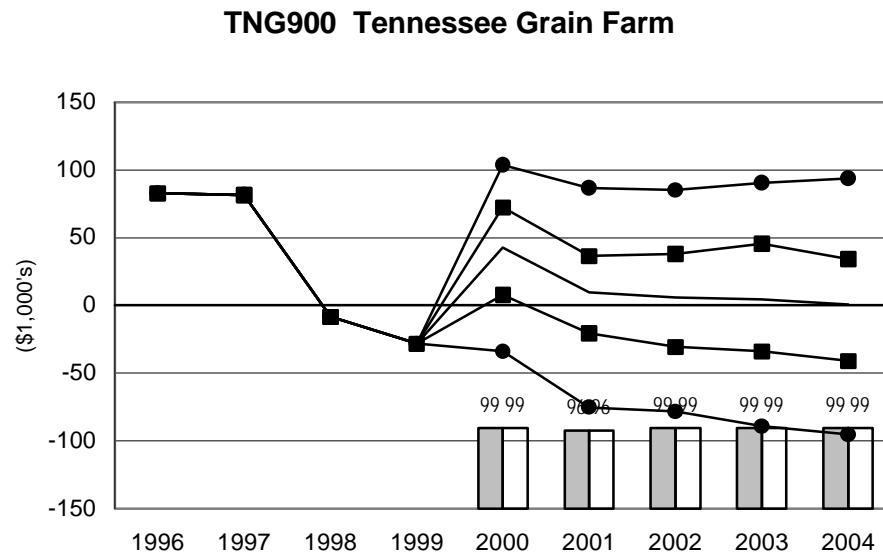


FIGURE 8. REPRESENTATIVE FARMS PRODUCING WHEAT



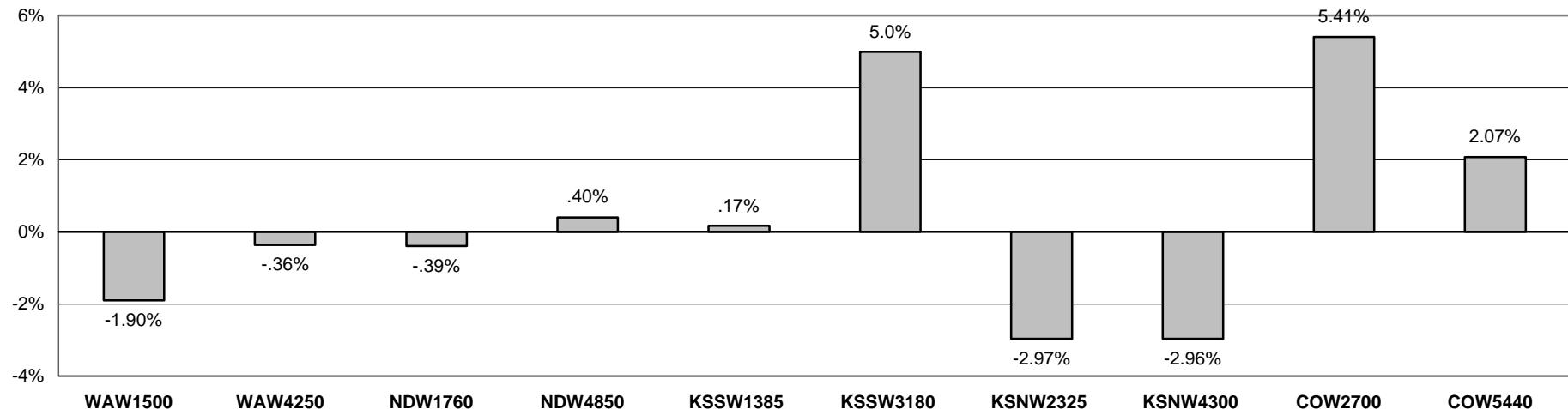
Wheat Farm Notes

Table 6. Implications of the 1996 Farm Bill and the November 1999 FAPRI Baseline on the Economic Viability of Representative Farms Primarily Producing Wheat.

	WAW1500	WAW4250	NDW1760	NDW4850	KSSW1385	KSSW3180	KSNW2325	KSNW4300	COW2700	COW5440
Annual Change Real Net Worth (%)										
1999-2004 Average	-1.903	-0.357	-0.391	0.402	0.17	4.995	-2.965	-2.959	5.41	2.073
Net Income Adjustment (NIA) 1999-2004 (\$1,000)	29.98	18.58	1.99	-8.85	0	-84.76	30.45	55.58	-51.24	-68.14
Net Income Adjustment (NIA) 1999-2004 (% Receipts)	8.63	2.11	0.86	-1.25	0	-22.62	15.08	11.86	-23.54	-15
Cost to Receipts Ratio (%) 2000-2004 Average	85.317	82.077	78.457	78.607	60.871	57.818	88.84	91.302	56.307	61.356
Govt Payments/Receipts (%) 2000-2004 Average	7.699	7.605	9.73	7.28	16.129	11.878	11.392	10.732	8.679	7.804
Total Cash Receipts (\$1000)										
1996	480.96	1466.82	273.58	861.94	131.84	304.03	260.3	512.8	227.01	381.81
1997	440.98	1113.23	210.27	824.77	257	563.3	293.04	604.69	188.83	371.61
1998	344.2	915.4	231.34	725.02	154.32	380.5	276.18	442.76	191.26	370.17
1999	320.01	846.29	246.79	687.69	163.33	347.94	276.21	585.21	272.13	554.16
2000	338.49	858.35	224.75	683.63	138.28	371.47	217.31	462.45	218.78	445.42
2001	336.41	853.16	224.96	685.51	135.7	364.95	211.46	453.81	215.83	439.41
2002	344.73	877.21	231.09	710.45	137.6	369.88	219.53	470.44	222.49	448.94
2003	357.52	904.57	238.47	733.96	142.79	385.03	223.6	479.63	230.23	468.93
2004	359.63	912.58	239.22	744.38	142.17	382.35	227.62	484.92	231.45	468.54
Net Cash Farm Income (\$1000)										
1996	205.91	798.7	112.65	333.92	48.05	84	86.18	146.08	121.25	176.93
1997	157.46	440.49	50.5	298.77	166.15	340.8	116.99	219.41	81.38	150.78
1998	66.55	225.35	64.03	198.02	70.38	177.4	105.08	72.96	77.81	125.55
1999	46.8	168.75	79.78	172.69	82.91	147.05	96.92	184.89	150.5	284.78
2000	59.81	182.24	58.87	170.76	56.8	173.62	43.88	71.75	97.21	178.44
2001	55.22	175.99	56.68	169.42	53.88	160.64	35.78	51.54	94.49	169
2002	62.51	198.78	62.44	189.53	56.42	163.33	41.5	62.19	101.78	178.28
2003	73.67	206.52	60.15	196.01	62.53	175.51	36.59	61.35	109.72	199.99
2004	72.05	200.19	57.61	198.7	62.47	168.79	35.53	58.33	110.69	201.1
Prob. of a Cash Flow Deficit (%)										
2000	86	61	52	56	63	1	73	78	52	31
2001	83	67	55	46	73	20	76	65	9	37
2002	80	61	40	52	57	13	83	68	16	32
2003	77	64	63	50	69	24	93	74	18	33
2004	84	65	54	56	51	25	85	77	15	29
Ending Cash Reserves (\$1000)										
1996	89.26	360.04	47.46	155.82	6.51	15.81	26.01	53.23	36.62	81.77
1997	136.1	443.61	52.72	254.82	82.97	210	61.08	144.25	56.53	126.02
1998	115.64	463.91	67.3	254.43	97.05	264.55	80.19	122.89	70.07	145.29
1999	71.94	449.52	88.86	228.99	117.92	307.97	80.05	190.66	129.03	256.71
2000	15.66	428.5	90.12	223.94	116.74	396.6	55.98	146.49	135.09	292.09
2001	-27.86	375.07	85.69	228.3	111.02	453.38	22.72	121.95	170.05	321.64
2002	-60.63	337.27	96.64	237.2	110.48	528.51	-15.4	90.73	206.35	362.52
2003	-74.45	288.23	85.87	257.69	106.9	605.83	-72.85	41.9	246.52	411.22
2004	-88.43	258.03	87.4	265.4	112.95	670.55	-105.81	-9.57	290.74	468.57
Prob. of Refinancing Deficits (%)										
2000	41	1	1	2	1	1	7	1	1	1
2001	62	1	9	10	1	1	39	7	1	1
2002	68	10	9	15	1	1	55	23	1	1
2003	70	18	18	14	1	1	75	36	1	1
2004	73	23	15	19	1	1	75	45	1	1
Nominal Net Worth (\$1000)										
1996	1147.75	3192.03	345.74	1549.94	446.39	829.62	828.81	1184.45	496.18	1637.67
1997	1221.74	3434.69	346.53	1682.6	543.2	1047.21	908.59	1317.45	537.37	1738.03
1998	1244.33	3605.65	361.12	1745.83	575.43	1113.65	922.96	1340.34	579	1839.29
1999	1238.32	3673.92	382.18	1780.88	606.27	1176.85	946.95	1432.99	661.96	2000.27
2000	1215.9	3679.33	381.43	1776.63	612.01	1246.21	925.2	1400.41	692.85	2030.32
2001	1183.95	3669.4	379.88	1802.41	613.05	1294.85	899.5	1365.62	737.82	2070.24
2002	1140.29	3612.44	379.04	1806.46	605.67	1356.05	860.48	1317.87	762.77	2099.77
2003	1123	3596.79	377.99	1813.06	600.73	1415.73	824.73	1270.75	797.11	2142.72
2004	1122.81	3615.72	375.48	1820.47	612.7	1473.82	808.22	1223.49	842.77	2212.17
Prob. of Losing Real Net Worth (%)										
2000	73	51	53	56	44	6	73	70	10	33
2001	75	52	52	42	46	5	80	80	1	20
2002	85	59	51	38	51	1	80	83	3	17
2003	81	62	53	38	58	2	88	88	1	11
2004	79	56	53	35	47	1	84	91	1	4

Figure 9. Wheat Farms

Average Annual Percentage Change in Real Net Worth 1999-2002



Average Annual Percentage Change in Receipts 1999-2002 Needed to Maintain 1999 Net Worth

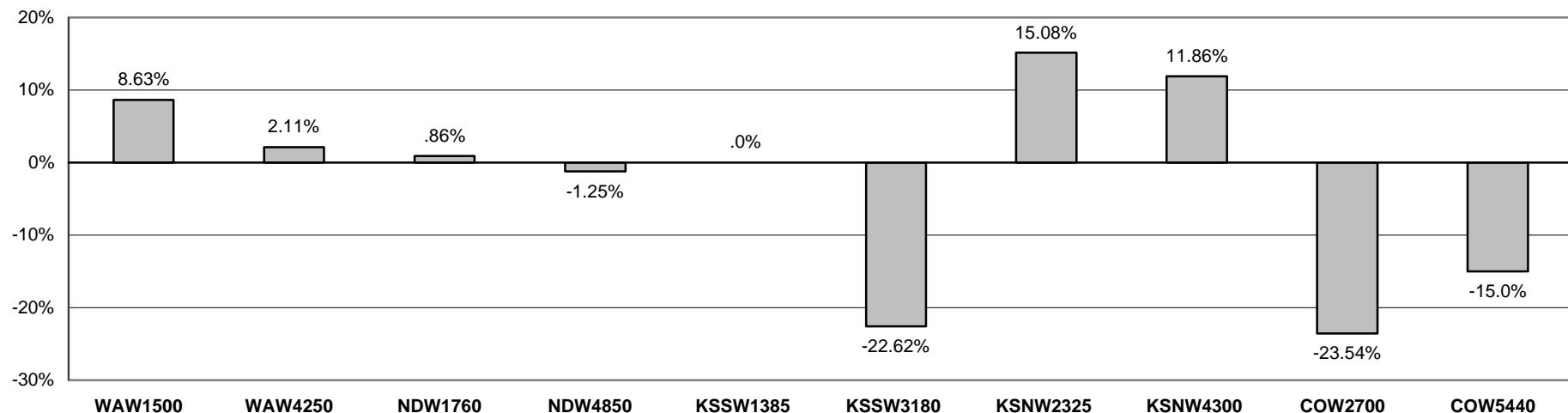
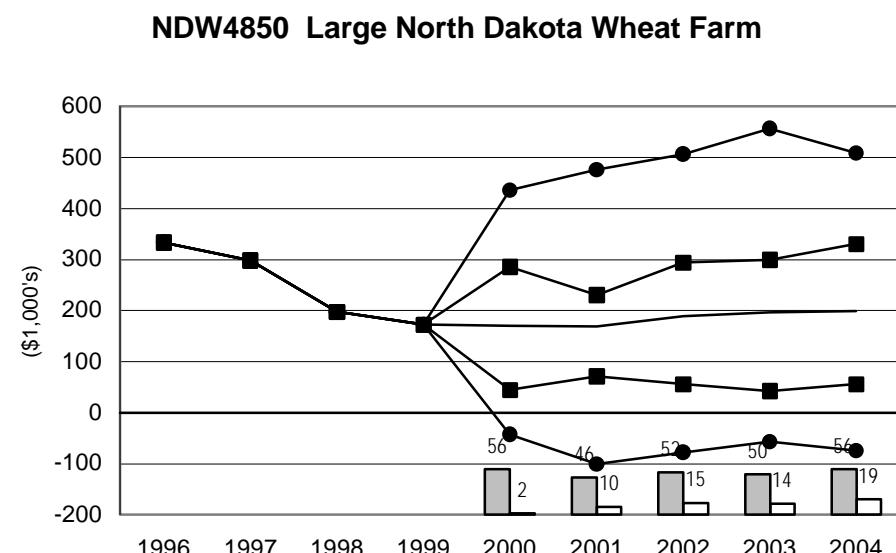
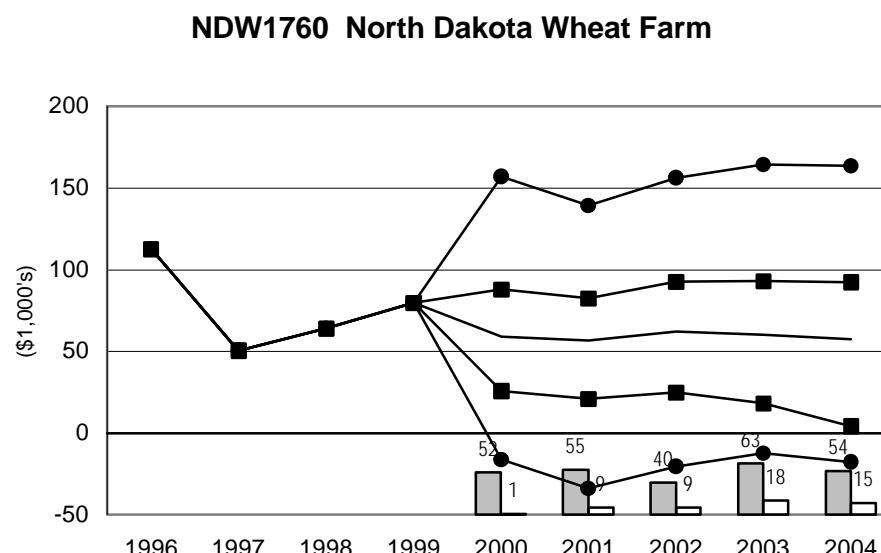
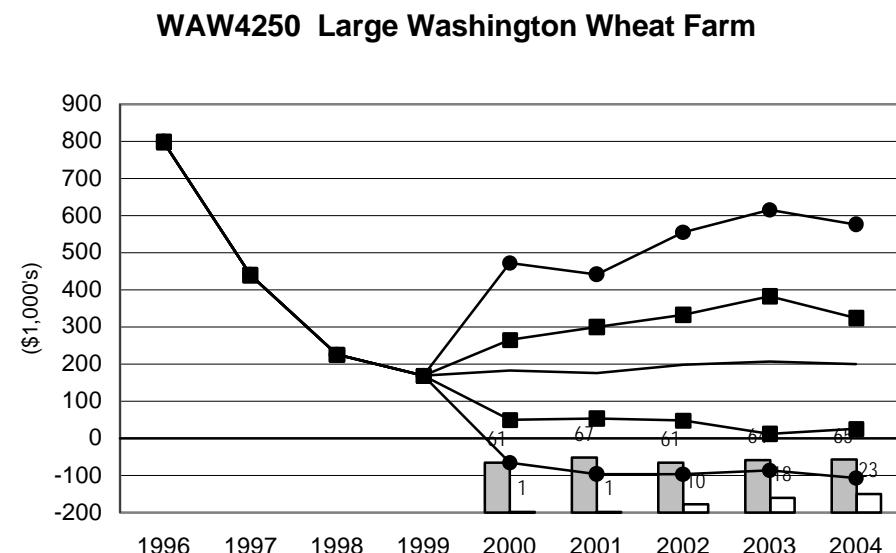
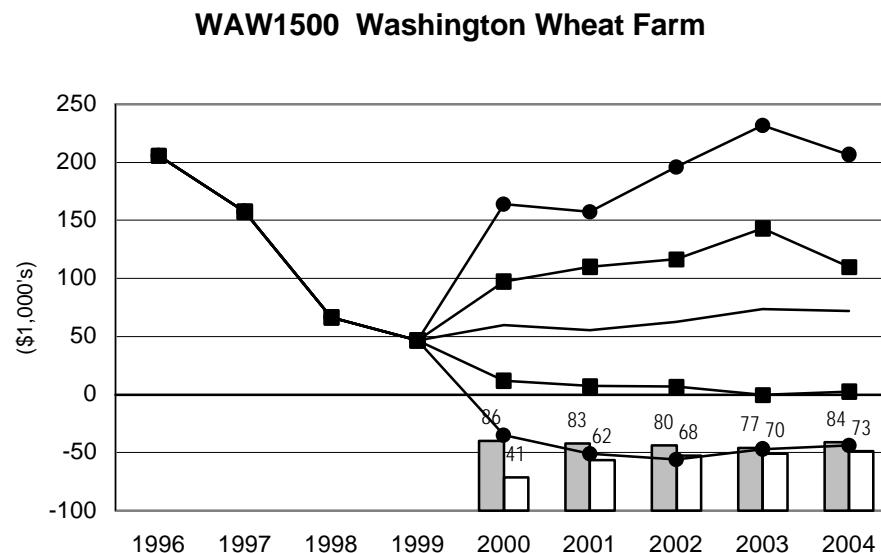


Figure 10. Net Cash Farm Income and Probabilities of a Cash Flow Deficit and Refinancing: Wheat Farms

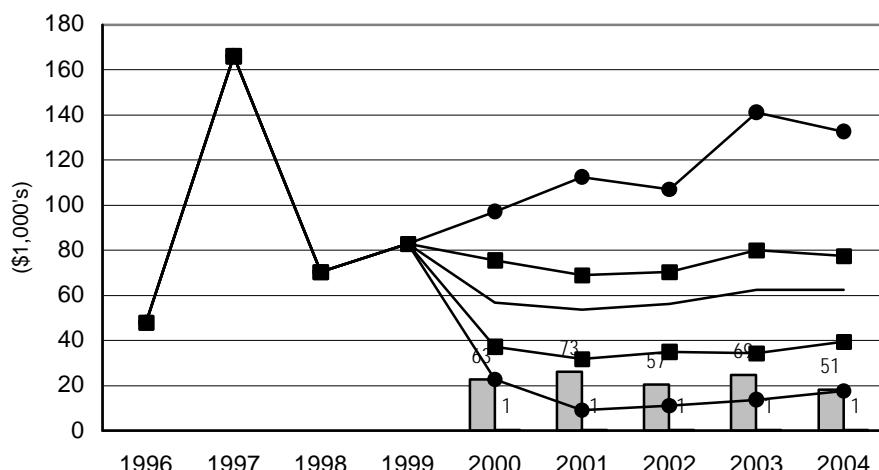
— Mean NCFY ■ 25 & 75 Percentile NCFY ● 5 & 95 Percentile NCFY ■ Prob. of Cash Flow Deficit □ Prob. of Refinancing



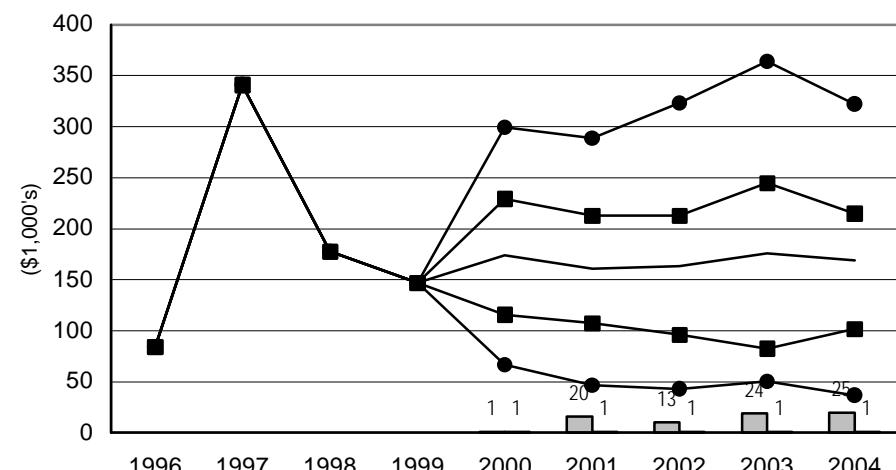
**Figure 11. Net Cash Farm Income and Probabilities of a Cash Flow Deficit and Refinancing:
Wheat Farms**

— Mean NCFY ■ 25 & 75 Percentile NCFY ● 5 & 95 Percentile NCFY ■ Prob. of Cash Flow Deficit □ Prob. of Refinancing

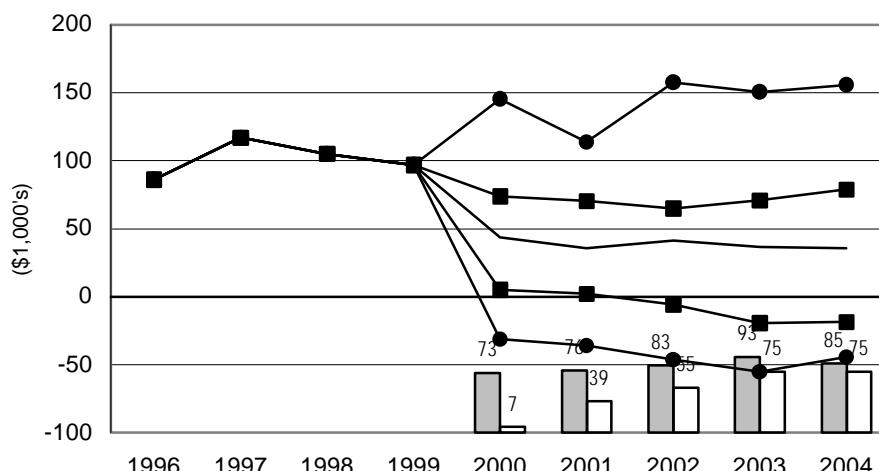
KSSW1385 Central Kansas Wheat Farm



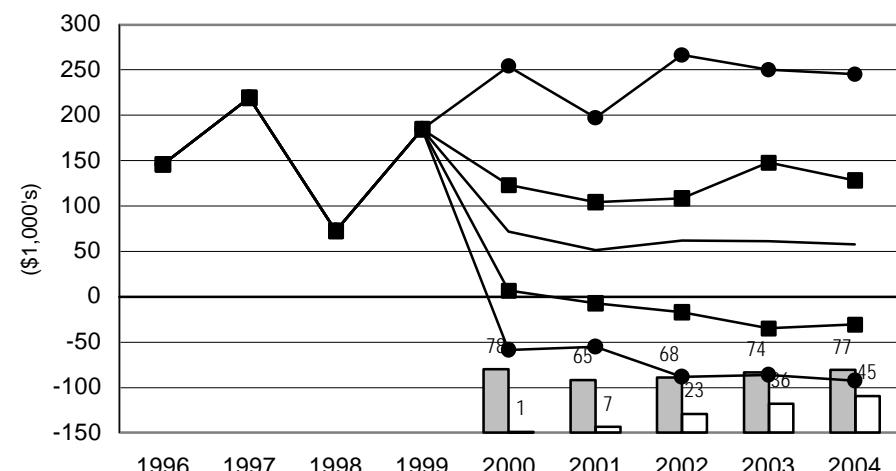
KSSW3180 Large Central Kansas Wheat Farm



KSNW2325 Northwest Kansas Wheat Farm



KNSW4300 Large Northwest Kansas Wheat Farm



**Figure 12. Net Cash Farm Income and Probabilities of a Cash Flow Deficit and Refinancing:
Wheat Farms**

— Mean NCFY ■ 25 & 75 Percentile NCFY ● 5 & 95 Percentile NCFY ■ Prob. of Cash Flow Deficit □ Prob. of Refinancing

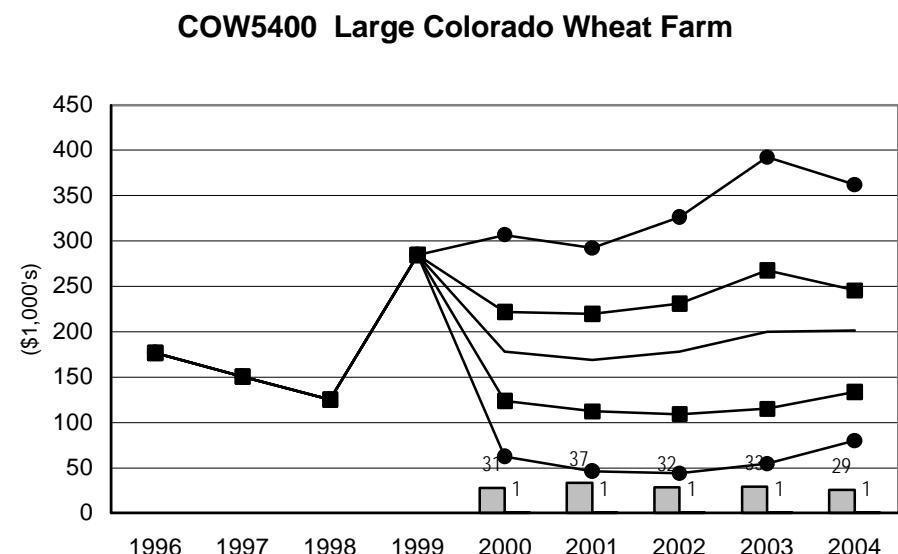
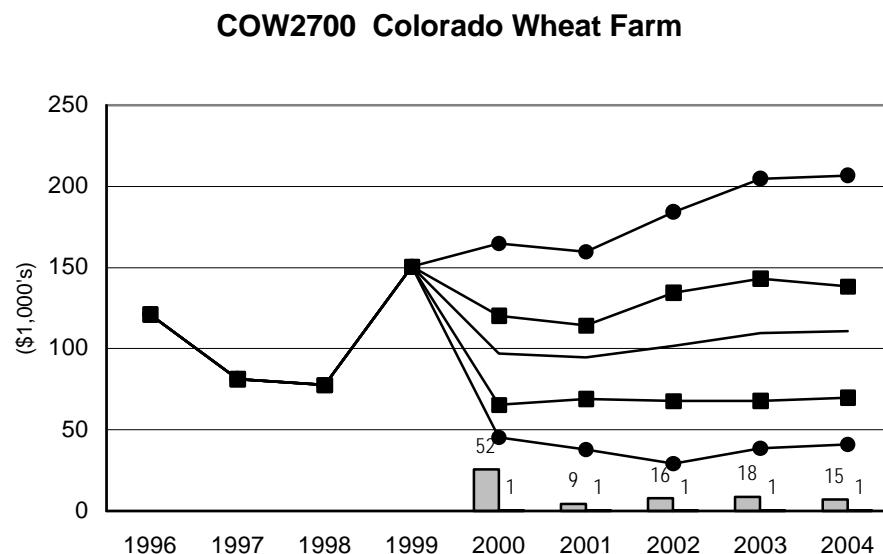


FIGURE 13. REPRESENTATIVE FARMS PRODUCING COTTON



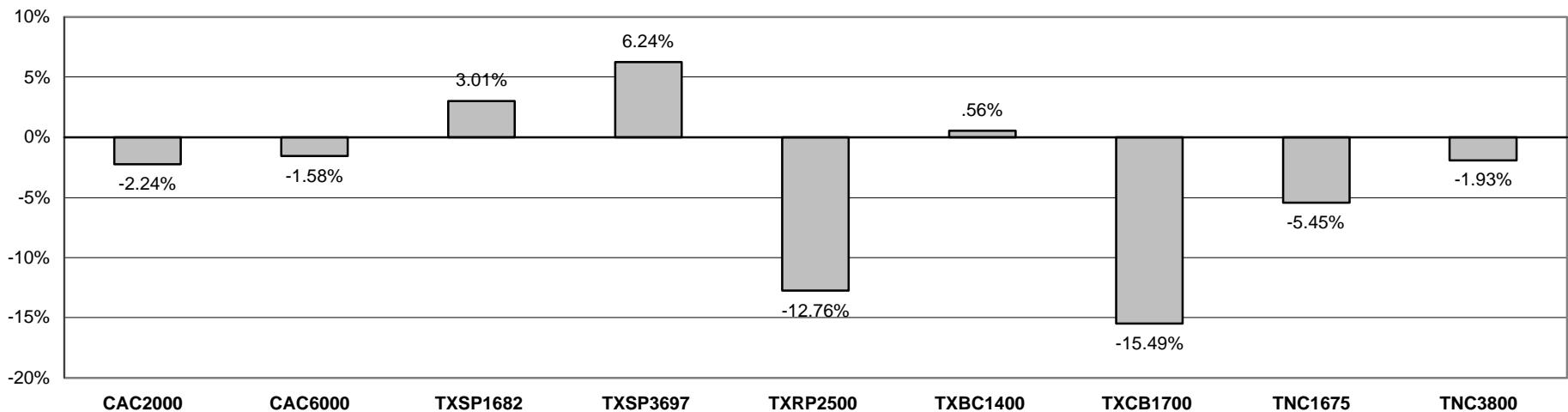
Cotton Farm Notes

Table 7. Implications of the 1996 Farm Bill and the November 1999 FAPRI Baseline on the Economic Viability of Representative Farms Primarily Producing Cotton.

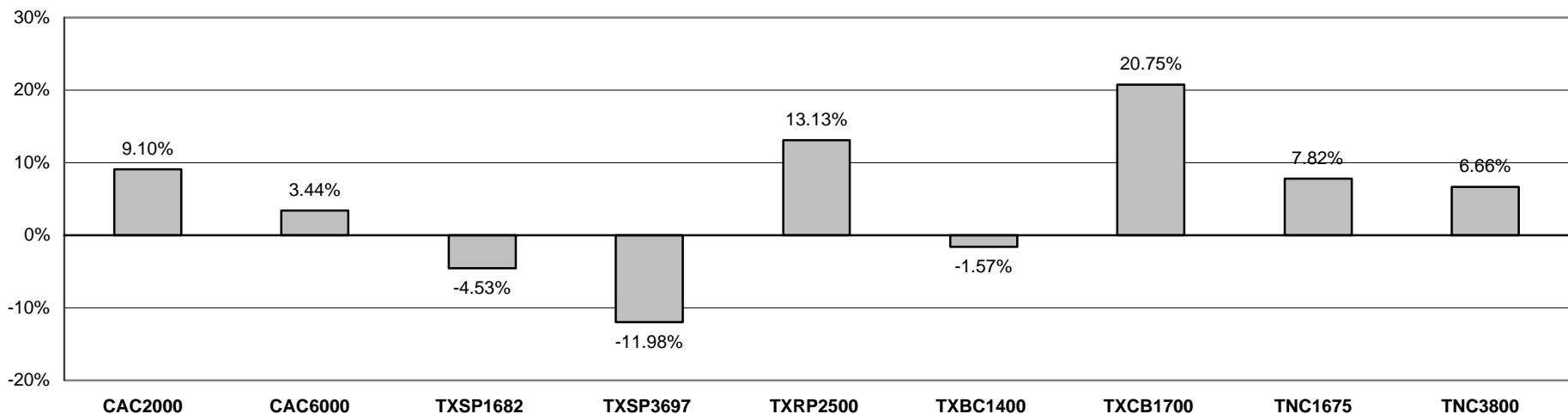
	CAC2000	CAC6000	TXSP1682	TXSP3697	TXRP2500	TXBC1400	TXCB1700	TNC1675	TNC3800
Annual Change Real Net Worth (%)									
1999-2004 Average	-2.241	-1.583	3.01	6.238	-12.759	0.557	-15.487	-5.454	-1.927
Net Income Adjustment (NIA) 1999-2004 (\$1,000)	128.73	262.56	-22.97	-120.94	29.73	-3.61	73.88	42.15	87.69
Net Income Adjustment (NIA) 1999-2004 (% Receipts)	9.1	3.44	-4.53	-11.98	13.13	-1.57	20.75	7.81	6.66
Cost to Receipts Ratio (%) 2000-2004 Average	95.686	99.829	78.071	73.961	101.836	74.631	107.599	95.247	99.374
Govt Payments/Receipts (%) 2000-2004 Average	8.279	3.913	7.309	10.096	15.554	11.2	14.553	11.406	11.137
Total Cash Receipts (\$1000)									
1996	1650.11	8296.44	203.24	739.54	179.37	145.64	227.77	578.93	1528.16
1997	1638.87	7771.16	303.33	1002.03	231.96	290.15	414.08	644.09	1542.76
1998	1556.11	7831.98	181.21	663.53	151.73	198.13	257.31	551.46	1339.14
1999	1580.85	7879.94	534.93	1074.33	199.96	313	670.48	384.64	1129.04
2000	1371.15	7312.56	495.55	964.42	213.55	224.27	342.59	533.16	1253.58
2001	1383.95	7535.95	504.65	984.45	219.53	224.02	344.21	511.73	1269.57
2002	1408	7637.37	514.88	1003.33	223.91	228.97	352.55	529.31	1308.09
2003	1439.7	7779.69	526.14	1034.31	233.42	236.34	364.37	550.92	1360.15
2004	1473.05	7917.24	537.26	1060.4	241.59	243.09	376.61	572.01	1425.16
Net Cash Farm Income (\$1000)									
1996	334.11	1079.85	16.31	102.37	12.73	-19.87	-53.5	90.95	353.65
1997	352.1	742.63	79.81	299.45	50.36	120.28	68.89	169.23	393.62
1998	278.82	824.94	-11.86	36.01	-12.27	32.83	-35.38	75.37	196.32
1999	302.43	622.63	166.11	393.34	22.73	135.42	245.81	-80.36	7.23
2000	90.27	109.37	112.5	257.11	17.58	60.91	4.05	50.11	101.49
2001	67.86	284.32	111.23	266.38	25.02	57.9	-7.17	14.32	92.56
2002	76.76	344.96	120.71	286.5	26.62	63.71	-8.28	18.47	112.18
2003	88.33	367.93	130.78	308.92	24.63	70.32	-8.57	55.9	218.44
2004	100.64	373.52	131.48	321.29	21.24	64.5	-13.63	67.21	251.9
Prob. of a Cash Flow Deficit (%)									
2000	69	62	63	41	88	46	98	58	57
2001	83	61	58	39	92	53	97	94	71
2002	71	55	58	26	84	26	95	93	70
2003	72	61	53	28	91	30	98	92	66
2004	66	56	63	23	94	64	98	91	65
Ending Cash Reserves (\$1000)									
1996	147.53	448.49	-46.79	1.25	-22.25	-54.26	-85.68	30.13	223.51
1997	288.97	715.25	-32.04	158.23	-7.13	18.29	-50.35	109.51	401.64
1998	373.88	1066.17	-106.62	55.7	-56.34	10.13	-129.41	110.66	418.22
1999	463.3	1289.46	-7.95	277.39	-72.3	73.87	41.38	-11.48	242.73
2000	404.78	1046.68	-20.61	310.25	-87.87	77.43	-39.74	-23.91	165.61
2001	284.06	935.92	-8.68	360	-102.54	79.89	-102.64	-108.56	-5.85
2002	207.81	830.87	8.75	449.82	-115.71	98.96	-157.65	-164	-94.61
2003	123.4	757.07	24.62	537.19	-144.74	122.07	-219.57	-200.24	-107.03
2004	48.22	684.76	32.86	640.22	-199.69	116.2	-295.29	-238.7	-133.69
Prob. of Refinancing Deficits (%)									
2000	1	15	63	1	88	1	78	58	24
2001	9	26	54	1	90	1	93	84	46
2002	22	35	47	1	80	1	94	90	50
2003	30	34	42	1	88	1	97	87	52
2004	36	35	42	1	85	7	98	88	48
Nominal Net Worth (\$1000)									
1996	3175.22	9775.43	485.42	1025.73	264.9	411.26	293.8	728.57	3326.55
1997	3457.97	10612.48	524.19	1222.04	273.85	495.77	333.17	817.47	3584.76
1998	3725.99	11658.2	472.64	1176.1	231.52	497.54	262.37	835.68	3734.53
1999	3906.71	12199.3	588.64	1447.99	226.67	566.17	441.73	718.55	3628.61
2000	3836.24	11946.61	593.63	1489.93	208.36	569.73	359.66	711.61	3575.61
2001	3751.36	11849.22	611.95	1572.54	185.24	572.95	301.18	648.26	3462.8
2002	3625.83	11512.35	631.77	1684.05	160.63	574.42	236.74	579.59	3333.97
2003	3525.1	11307.2	653.37	1775.65	124.56	583.28	172.72	546.23	3294.87
2004	3476.19	11256.7	678.62	1903.53	82.23	583.13	99.88	523.67	3285.73
Prob. of Losing Real Net Worth (%)									
2000	74	60	47	39	64	49	98	50	56
2001	85	59	38	21	62	46	99	78	68
2002	91	56	26	12	71	44	99	85	70
2003	93	57	28	6	76	41	98	85	64
2004	88	57	22	3	81	39	98	83	59

Figure 14. Cotton Farms

Average Annual Percentage Change in Real Net Worth 1999-2002

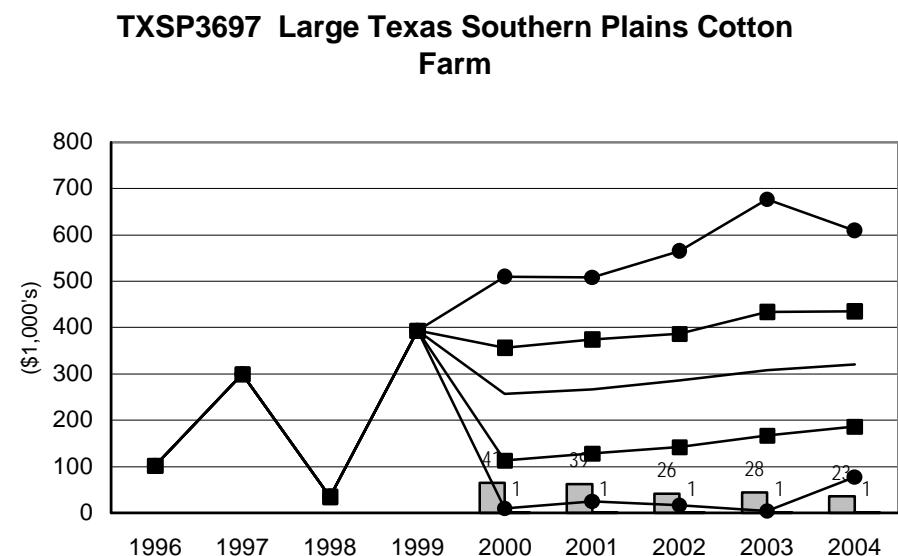
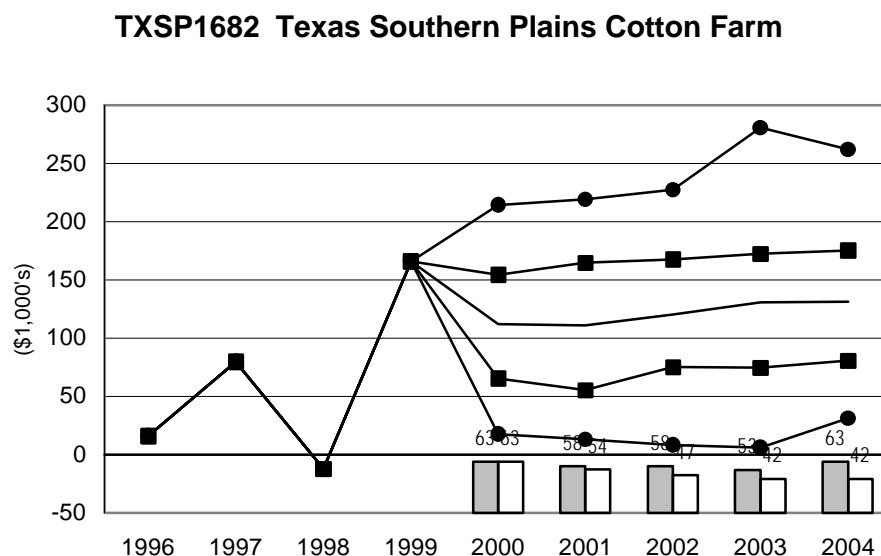
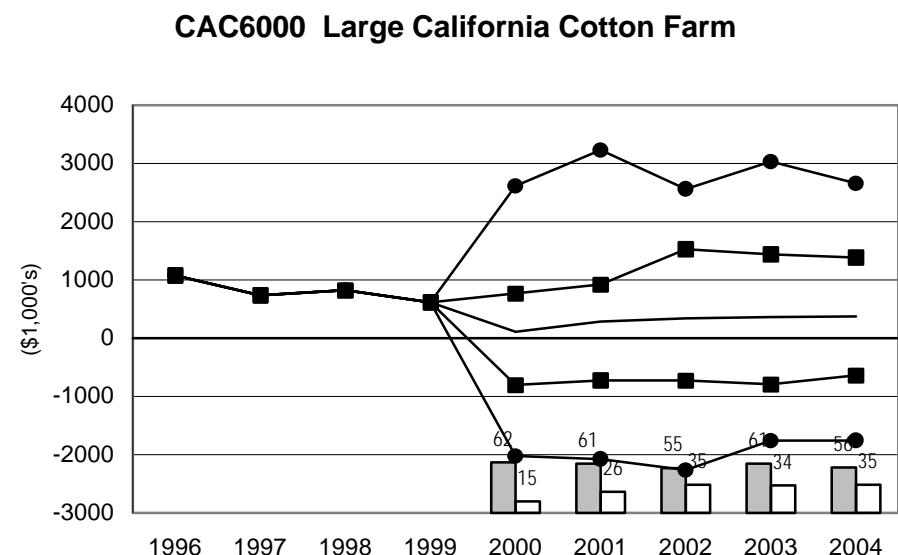
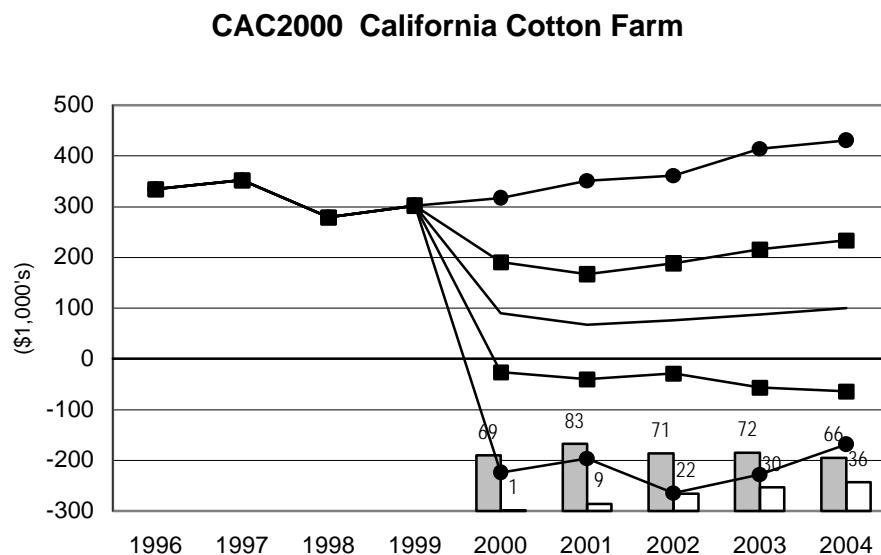


Average Annual Percentage Change in Receipts 1999-2002 Needed to Maintain 1999 Net Worth



**Figure 15. Net Cash Farm Income and Probabilities of a Cash Flow Deficit and Refinancing:
Cotton Farms**

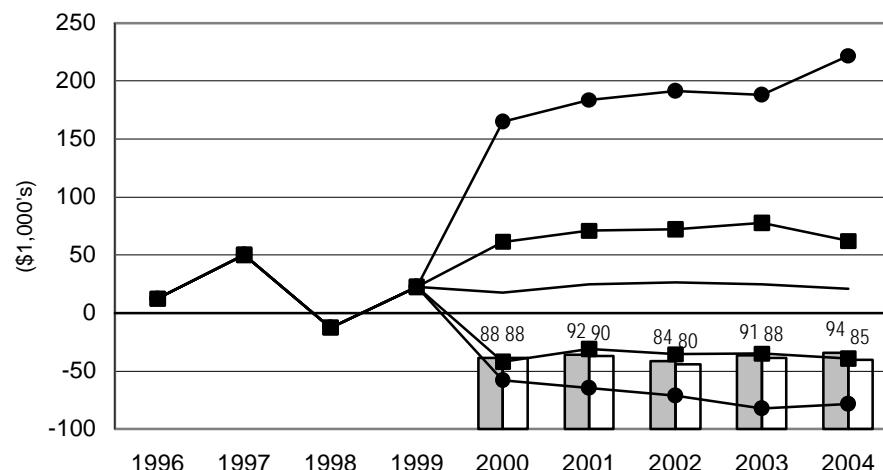
— Mean NCFY ■ 25 & 75 Percentile NCFY ● 5 & 95 Percentile NCFY ■ Prob. of Cash Flow Deficit □ Prob. of Refinancing



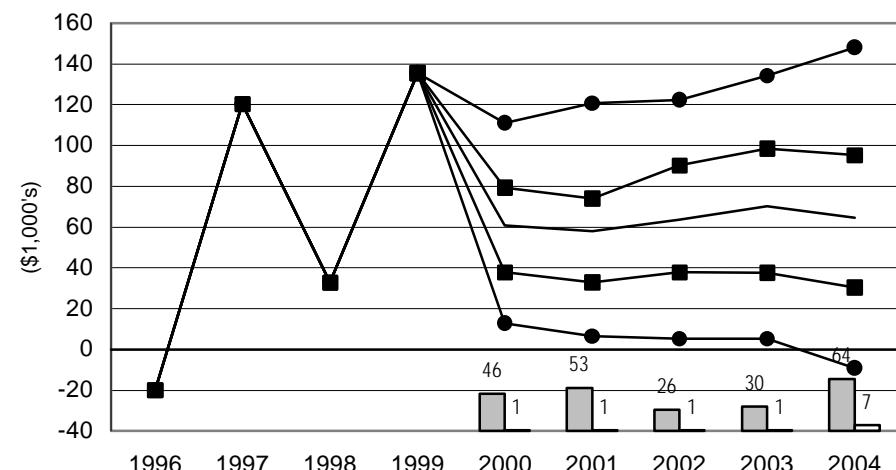
**Figure 16. Net Cash Farm Income and Probabilities of a Cash Flow Deficit and Refinancing:
Cotton Farms**

— Mean NCFY ■ 25 & 75 Percentile NCFY ● 5 & 95 Percentile NCFY ■ Prob. of Cash Flow Deficit □ Prob. of Refinancing

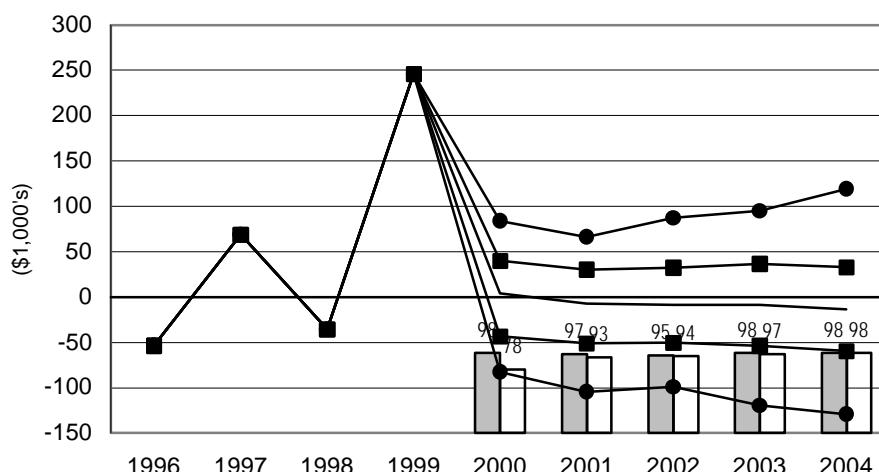
TXRP2500 Texas Rolling Plains Cotton Farm



TXBL1400 Texas Blacklands Cotton Farm



TXCB1700 Texas Coastal Bend Cotton Farm



**Figure 17. Net Cash Farm Income and Probabilities of a Cash Flow Deficit and Refinancing:
Cotton Farms**

— Mean NCFY ■ 25 & 75 Percentile NCFY ● 5 & 95 Percentile NCFY ■ Prob. of Cash Flow Deficit □ Prob. of Refinancing

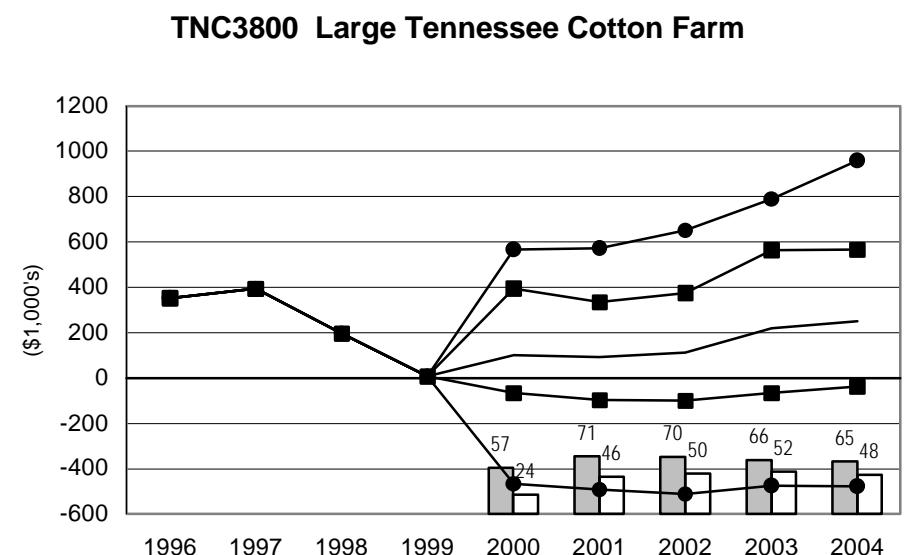
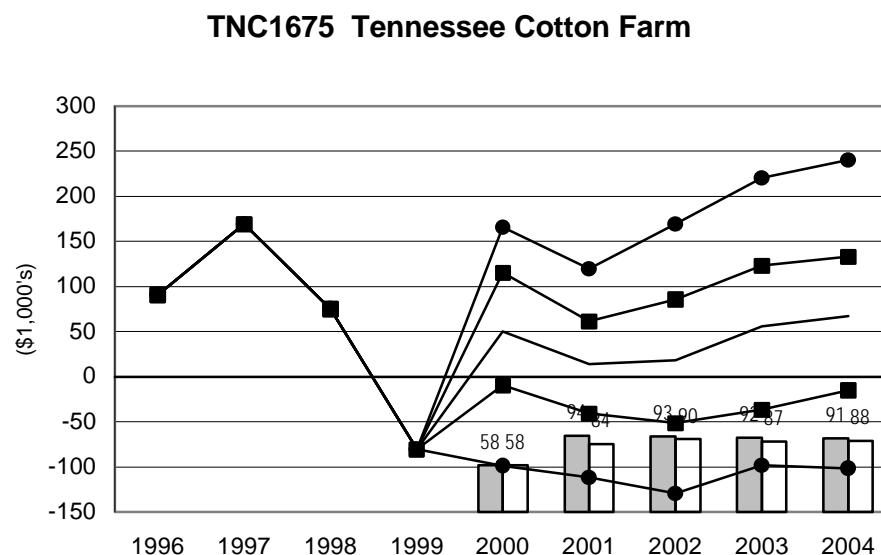


FIGURE 18. REPRESENTATIVE FARMS PRODUCING RICE



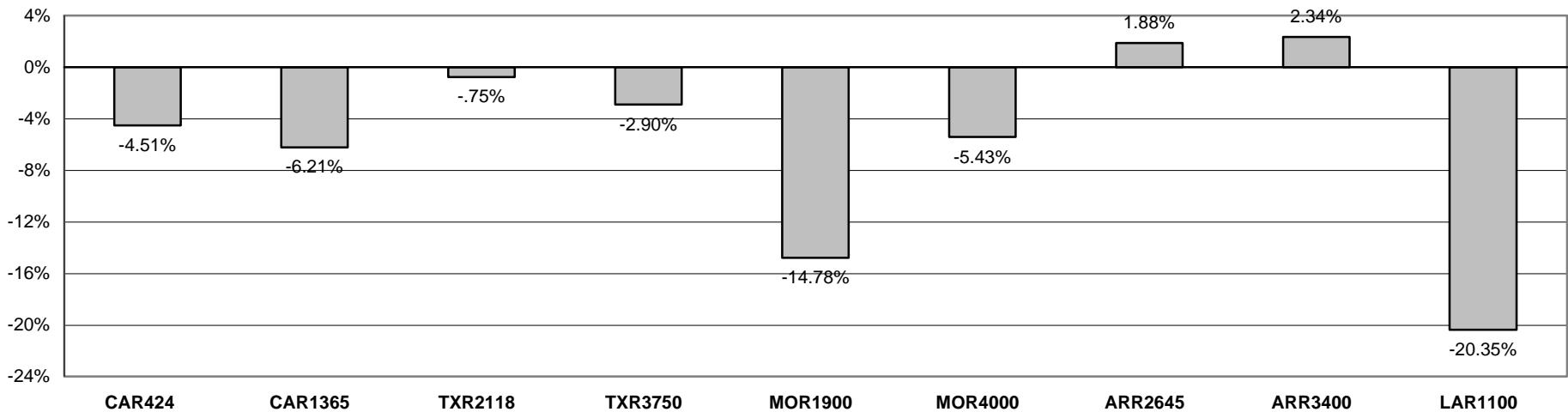
Rice Farm Notes

Table 8. Implications of the 1996 Farm Bill and the November 1999 FAPRI Baseline on the Economic Viability of Representative Farms Primarily Producing Rice.

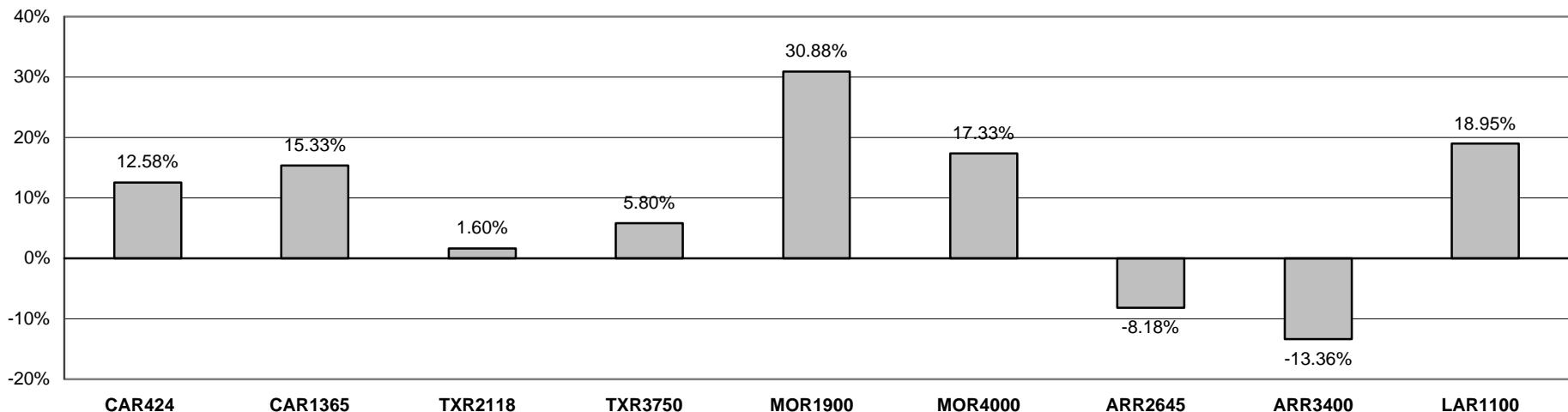
	CAR424	CAR1365	TXR2118	TXR3750	MOR1900	MOR4000	ARR2645	ARR3400	LAR1100
Annual Change Real Net Worth (%)									
1999-2004 Average	-4.505	-6.208	-0.747	-2.898	-14.776	-5.425	1.876	2.341	-20.351
Net Income Adjustment (NIA) 1999-2004 (\$1,000)	35.28	138.82	6.22	66.18	166.03	274.77	-49.62	-108.99	50.42
Net Income Adjustment (NIA) 1999-2004 (% Receipts)	12.58	15.32	1.6	5.8	30.88	17.33	-8.18	-13.36	18.95
Cost to Receipts Ratio (%) 2000-2004 Average	90.562	101.525	84.638	95.713	114.923	101.669	72.998	66.046	101.435
Govt Payments/Receipts (%) 2000-2004 Average	24.142	24.43	25.282	23.089	17.39	16.516	17.013	22.205	20.247
Total Cash Receipts (\$1000)									
1996	324.76	1012.62	482.24	1371.09	691.5	2007.29	842.25	1118.92	342
1997	354.94	1112	472.21	1358.38	658.18	1917.77	748.01	1008.67	319.82
1998	317.8	982.05	465.41	1325.98	577.76	1679.96	578.48	815.71	287.16
1999	306.7	939.29	473.81	1344.02	600.39	1741.95	733.84	1039.1	310.47
2000	299.43	925.65	402.01	1170.89	534.86	1561.86	599.92	809.9	267.11
2001	292.79	906.16	391.02	1142.05	522.95	1547.98	594.95	794.21	262.45
2002	296.11	917.26	393.07	1152.55	533.03	1573.23	607.49	806.53	267.96
2003	301.2	933.87	398.15	1167.46	542.41	1606.71	620.15	830.75	272.3
2004	304.43	944.43	399.78	1171.06	555.24	1638.65	629.38	838.95	275.24
Net Cash Farm Income (\$1000)									
1996	73.76	128.56	139.1	273.05	133.55	493.26	381.51	564.55	98.08
1997	94.3	202.9	132.88	267.51	104.56	387.9	295.84	460.51	76.96
1998	68.42	114.82	136.14	253.66	26.54	167.78	138.69	281.03	42.96
1999	57.81	83.93	149	284.07	46.34	228.51	292.18	511.53	64.57
2000	40.03	38.17	81.69	113.51	-26.87	48.59	172.4	297.82	17.92
2001	29.29	5.93	68.53	71.66	-62.15	-0.46	162.48	276.65	9.45
2002	27.44	0.99	65.95	61.37	-71.66	-5.72	174.05	287.43	7
2003	28.72	-25.96	58.6	60.61	-88.02	-6.41	178.12	295.13	-2.24
2004	27.64	-44.15	56.92	34.17	-103.29	-23.55	179.46	298.67	-9.81
Prob. of a Cash Flow Deficit (%)									
2000	96	66	35	70	99	88	27	28	88
2001	99	84	40	69	99	98	30	28	97
2002	99	85	38	81	99	98	26	21	99
2003	99	99	64	74	99	99	27	39	99
2004	99	99	68	89	99	99	29	28	99
Ending Cash Reserves (\$1000)									
1996	17.28	42.11	53.11	95.43	40.91	240.79	192.21	256.57	32.96
1997	39.27	129.57	96.95	196.64	49.93	350.13	299.57	409.41	46.65
1998	36.46	132.51	136.81	252.81	-23.78	253.77	302.06	453.1	33.69
1999	23.96	105.95	183.4	333.36	-83.91	222.57	415.6	634.48	28.6
2000	-2.34	77.74	193.38	295.78	-206.13	-23.24	447.15	687.44	-21.45
2001	-41.37	23.91	203.36	253.47	-379.63	-360.65	486.57	752.32	-82.53
2002	-79.63	-38.33	214.74	175.64	-587.01	-671.35	532.06	839.05	-155.16
2003	-117.29	-192.84	205.5	124.41	-803.13	-975.25	576.86	895.39	-247.61
2004	-147.2	-350.68	192.32	13.6	-1026.62	-1300.5	629.37	975.36	-330.73
Prob. of Refinancing Deficits (%)									
2000	47	11	1	1	99	59	1	1	67
2001	96	35	1	7	99	93	1	1	87
2002	99	54	1	20	99	97	1	1	98
2003	99	93	1	35	99	99	1	1	99
2004	99	99	2	49	99	99	1	1	99
Nominal Net Worth (\$1000)									
1996	532.09	1536.03	442.44	1515.41	1189.47	4356.34	1477.62	2366.07	242.05
1997	576.66	1677.85	492.06	1694.12	1222.31	4600.66	1633.81	2611.8	256.79
1998	602.23	1754.74	544.01	1841.05	1189.29	4721.05	1701.27	2766.36	250.01
1999	607.84	1775.63	600.3	1983.34	1163.41	4810.8	1848.39	3026.75	258.98
2000	587.5	1722.12	601.72	1957.86	1036.91	4605.15	1875.7	3083.81	212.4
2001	559.8	1649.17	605.57	1931.4	876.06	4356.51	1909.83	3175.45	167.47
2002	526.29	1540.54	604.96	1846.15	685.52	4023.94	1932.98	3241.03	114.43
2003	491.42	1375.41	587.29	1801.4	500.87	3755.97	1965.79	3301.59	60.39
2004	471.89	1226.96	579.09	1699.48	304.49	3513.19	2025.98	3387.97	-4.56
Prob. of Losing Real Net Worth (%)									
2000	90	87	52	63	98	85	30	22	86
2001	98	98	50	60	99	95	23	9	91
2002	99	99	49	72	99	99	21	7	98
2003	99	99	58	75	99	99	12	3	97
2004	99	99	61	83	99	99	9	2	99

Figure 19. Rice Farms

Average Annual Percentage Change in Real Net Worth 1999-2002



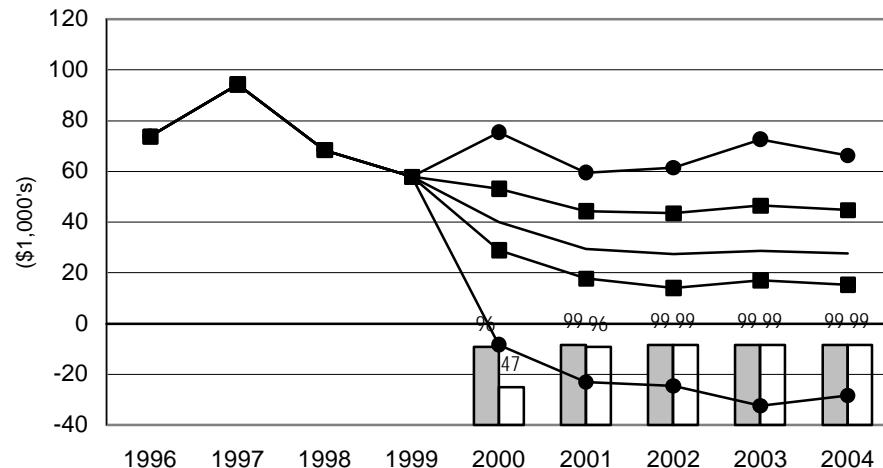
Average Annual Percentage Change in Receipts 1999-2002 Needed to Maintain 1999 Net Worth



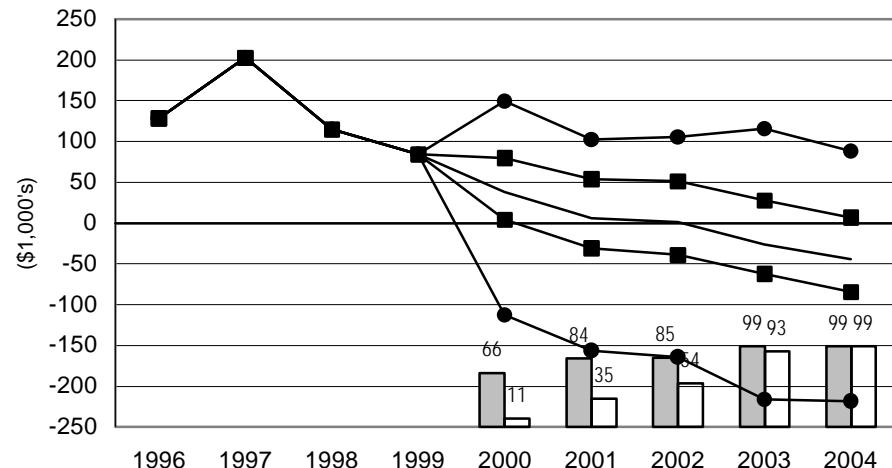
**Figure 20. Net Cash Farm Income and Probabilities of a Cash Flow Deficit and Refinancing:
Rice Farms**

— Mean NCFY ■ 25 & 75 Percentile NCFY ● 5 & 95 Percentile NCFY ■ Prob. of Cash Flow Deficit □ Prob. of Refinancing

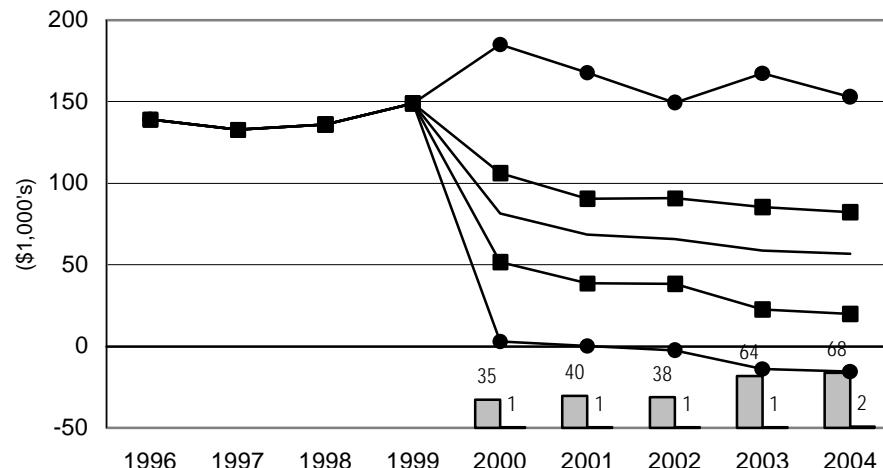
CAR424 California Rice Farm



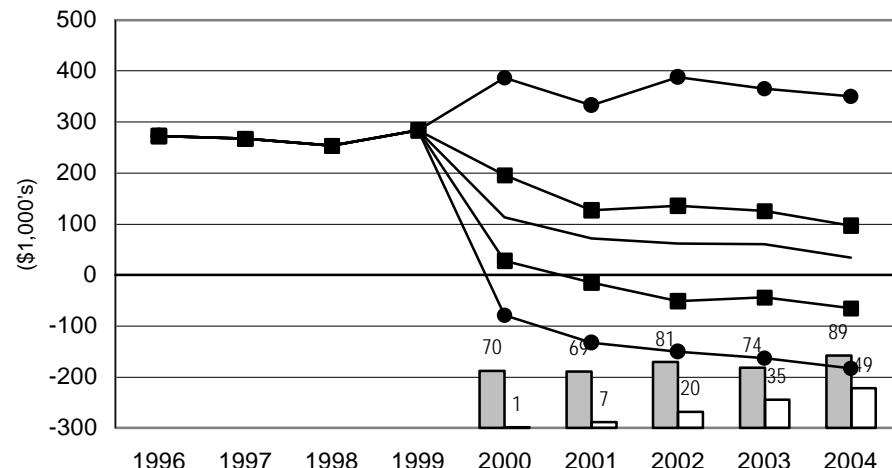
CAR1365 Large California Rice Farm



TXR2118 Texas Rice Farm

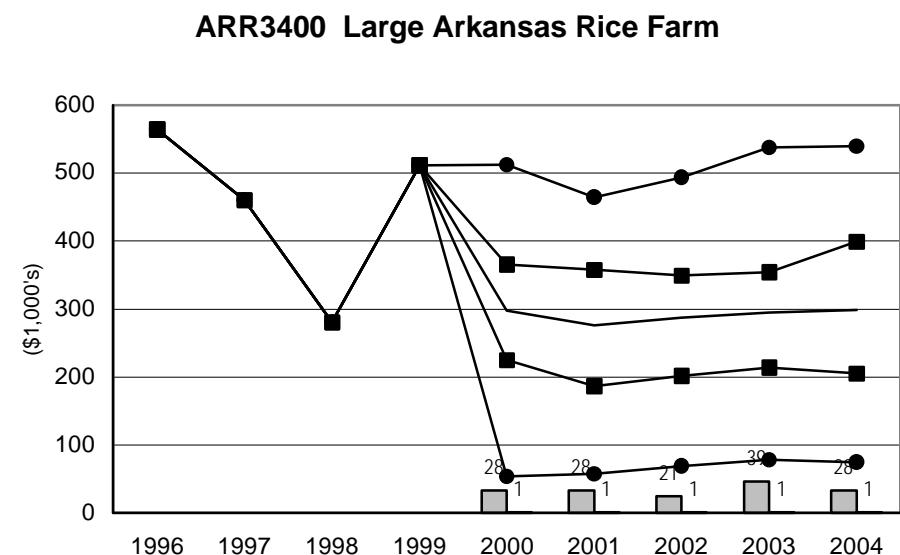
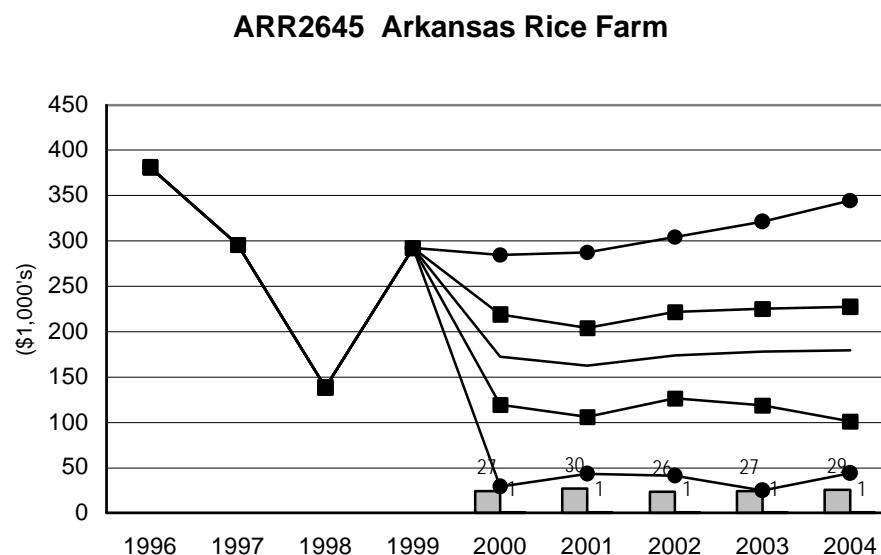
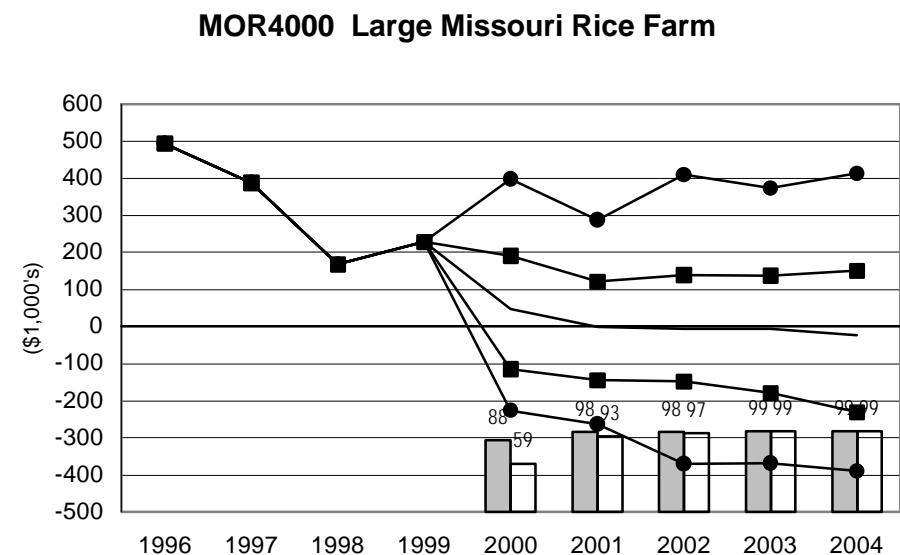
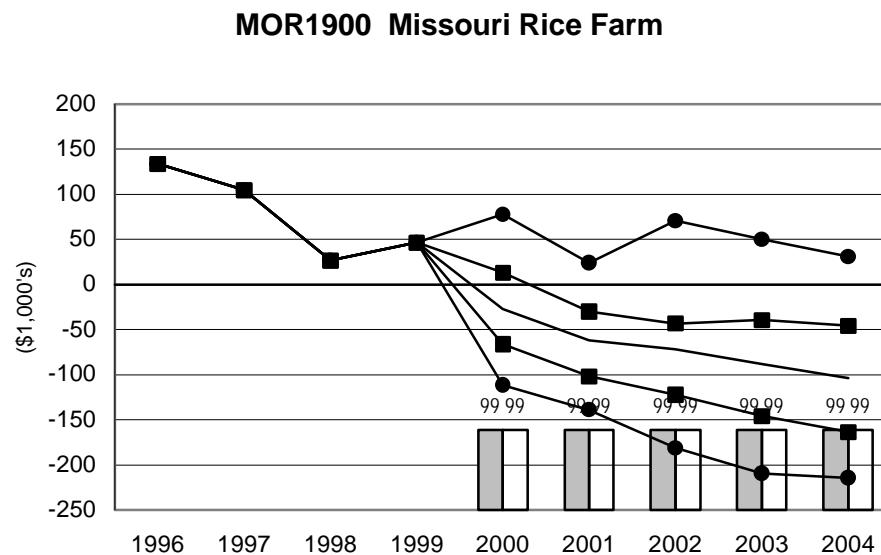


TXR3750 Large Texas Rice Farm



**Figure 21. Net Cash Farm Income and Probabilities of a Cash Flow Deficit and Refinancing:
Rice Farms**

— Mean NCFY ■ 25 & 75 Percentile NCFY ● 5 & 95 Percentile NCFY ■ Prob. of Cash Flow Deficit □ Prob. of Refinancing



**Figure 22. Net Cash Farm Income and Probabilities of a Cash Flow Deficit and Refinancing:
Rice Farms**

— Mean NCFY ■ 25 & 75 Percentile NCFY ● 5 & 95 Percentile NCFY ■ Prob. of Cash Flow Deficit □ Prob. of Refinancing

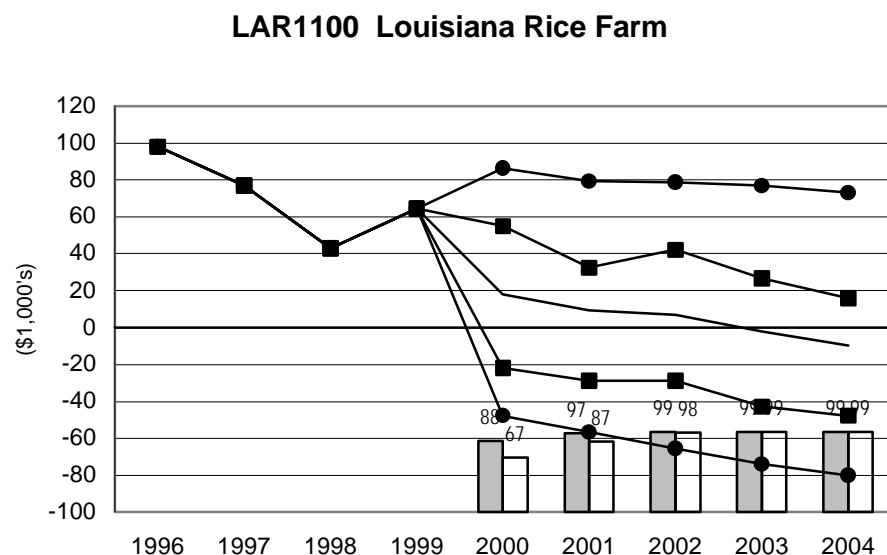
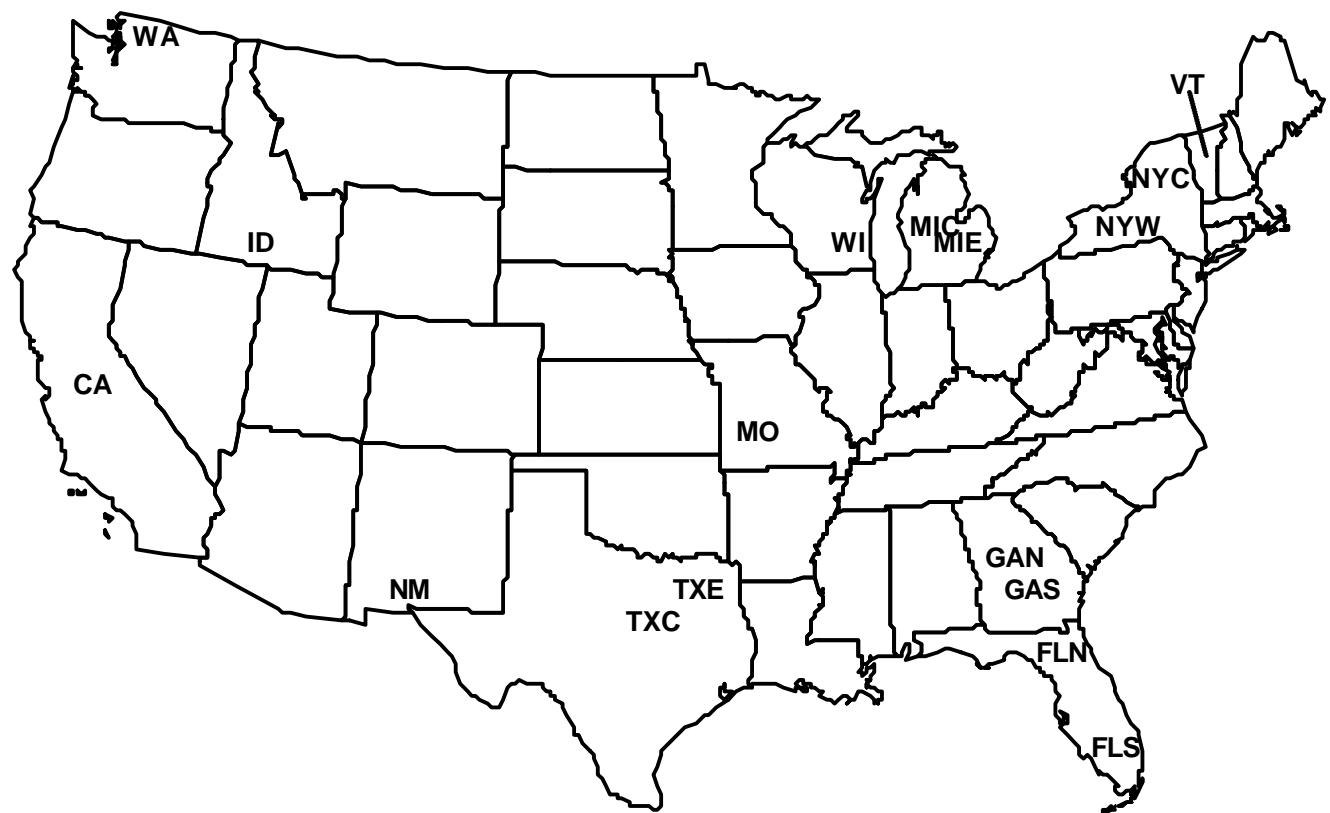


FIGURE 23. REPRESENTATIVE FARMS PRODUCING MILK



Dairy Notes

Table 9. Implications of the 1996 Farm Bill and the November 1999 FAPRI Baseline on the Economic Viability of Representative Farms Primarily Producing Milk.

	CAD1710	NMD2000	WAD185	WAD900	IDD750	IDD2100	TXCD400	TXCD825	TXED210	TXED650
Annual Change Real Net Worth (%)										
1999-2004 Average	8.853	0.23	7.351	6.134	7.93	11.38	-8.947	11.896	8.111	8.998
Net Income Adjustment (NIA)										
1999-2004 (\$1,000)	-1315.65	-13.09	-137.29	-395.2	-391.81	-1989.58	95.94	-867.88	-107.28	-330.47
Net Income Adjustment (NIA)										
1999-2004 (% Receipts)	-24.07	-0.23	-19.92	-12.37	-16.62	-30.39	8.99	-24.13	-19.26	-18.78
Cost to Receipts Ratio (%)										
2000-2004 Average	71.557	96.538	72.443	82.951	79.485	65.594	104.454	71.486	72.39	76.607
Govt Payments/Receipts (%)										
2000-2004 Average	0	0	0	0	0	0	0	0	0	0
Total Cash Receipts (\$1000)										
1996	5296.79	5632.94	755.85	3335.89	2368.79	6509.09	1018.91	3510.88	558.04	1772.49
1997	5048.24	5440.8	711.53	3138.77	2180.83	5966.74	957.79	3291.11	525.85	1663.26
1998	6052.6	6278.79	830.11	3668.36	2615.65	7379.16	1174.5	3929.31	603.84	1918.82
1999	5568.89	5992.05	698.6	3412.03	2391.66	6668.04	1121.34	3767.83	580.71	1841.3
2000	5281.34	5509.5	671.05	3172.4	2291.77	6362.68	1032.41	3479.67	539.44	1702.53
2001	5360.07	5523.25	671.56	3096.14	2293.81	6361.67	1044.44	3519.55	545.8	1722.56
2002	5424.89	5645.81	685.28	3159.77	2344.6	6505.14	1061.23	3576.54	554.33	1750.39
2003	5598.93	5805.74	705.38	3253.26	2422.18	6723.88	1092.52	3681.87	569.88	1800.65
2004	5668.94	5886.29	713.45	3291.33	2438.52	6783.84	1106.68	3727	575.59	1821.56
Net Cash Farm Income (\$1000)										
1996	956.44	113.77	208.96	392.21	327.53	1683.64	-72.34	700.68	121.42	306.59
1997	691.02	-386.18	165.4	137.32	133.35	1108.87	-140.68	479.86	101.64	220.43
1998	2101.29	935.42	346.79	927.63	727.74	2944.24	112.58	1285.64	201.12	565.8
1999	1788.72	956.64	256.99	714.4	595.91	2585.28	82.69	1319.49	192.86	551.53
2000	1520.3	355.02	199.37	656.36	502.96	2269.89	-11.77	1027.04	152.69	416.47
2001	1557.74	235.86	192.29	544.95	486.18	2223.57	-25.92	1027.68	153.93	422.42
2002	1534.93	228.56	192.55	547.37	493.64	2266.04	-40.57	1029.14	156.75	423.98
2003	1625.12	267.36	198.55	585.26	529.18	2400.88	-46.56	1079.81	165.77	447.78
2004	1597.99	207.95	196.78	550.09	511.46	2358.95	-69.13	1065.94	163.64	439.77
Prob. of a Cash Flow Deficit (%)										
2000	1	50	5	8	7	1	99	1	10	11
2001	1	55	2	14	9	1	99	1	8	11
2002	1	54	10	19	12	1	99	1	7	14
2003	1	57	18	19	17	1	99	1	7	13
2004	1	62	17	28	11	1	98	1	12	14
Ending Cash Reserves (\$1000)										
1996	368.43	-32.49	103.8	168.26	128.08	841.71	-126.65	389.54	47.07	145.9
1997	610.68	-514.83	165.82	156.42	118.65	1257.99	-315.62	599.62	79.75	218.05
1998	1757.92	123.58	350.05	687.33	512.54	2870.25	-254.36	1365.05	179.15	520.08
1999	2629.08	532.09	456.73	1006.28	789.74	4145.65	-242.58	2068.97	258.4	763.41
2000	3416.46	531.9	544.09	1349.36	1035.47	5307.75	-310.22	2615.22	317.79	948.93
2001	4256.02	489.24	634.3	1616.94	1265.92	6448.45	-386.52	3199.45	385.36	1155.6
2002	5101.78	443.39	717.27	1892.98	1481.12	7600.22	-478.57	3789.69	454.84	1365.12
2003	6020.7	418.47	795.33	2206.97	1690.17	8829.72	-588.95	4415.22	530.27	1595.68
2004	6933.19	314.1	874.56	2451.59	1956.24	10214.05	-738.68	5041.17	602.57	1821.82
Prob. of Refinancing Deficits (%)										
2000	1	11	1	1	1	1	99	1	1	1
2001	1	18	1	1	1	1	99	1	1	1
2002	1	21	1	1	1	1	99	1	1	1
2003	1	34	1	1	1	1	98	1	1	1
2004	1	37	1	1	1	1	98	1	1	1
Nominal Net Worth (\$1000)										
1996	6887.39	4394.31	852.44	3600.18	2385.54	7259.24	1103.42	2963.94	628.09	1711.69
1997	7470.29	4170.59	952.76	3756.39	2539.04	8130.61	961.52	3314.91	709.25	1883.01
1998	8862.17	4901.28	1159.72	4383.23	3013.22	10009.15	1039.75	4113.99	828.35	2254.29
1999	9931.57	5446.37	1286.3	4751.12	3395.24	11583.15	1078.06	4885	930.27	2576.61
2000	10867.16	5626.45	1389.18	5154.75	3740.44	13041.14	1036.53	5522.44	1010.62	2828.14
2001	11768.19	5667.39	1489.13	5425.99	4021.97	14350.6	964.22	6128.39	1092.29	3068.68
2002	12591.3	5659.58	1583.58	5694.88	4273.94	15622.61	868.35	6716.82	1162.32	3288.67
2003	13517.42	5694.65	1680.87	6010.9	4550.79	17017.2	759.86	7247.93	1244	3541.99
2004	14357.29	5520.36	1762.74	6221.12	4751.3	18211.42	597.01	7806.66	1310.22	3743.59
Prob. of Losing Real Net Worth (%)										
2000	1	32	4	9	5	1	65	1	9	9
2001	1	33	1	3	1	1	82	1	2	3
2002	1	33	1	1	1	1	85	1	1	2
2003	1	39	1	1	1	1	88	1	1	1
2004	1	41	1	3	2	1	91	1	1	1

Table 10. Implications of the 1996 Farm Bill and the November 1999 FAPRI Baseline on the Economic Viability of Representative Farms Primarily Producing Milk.

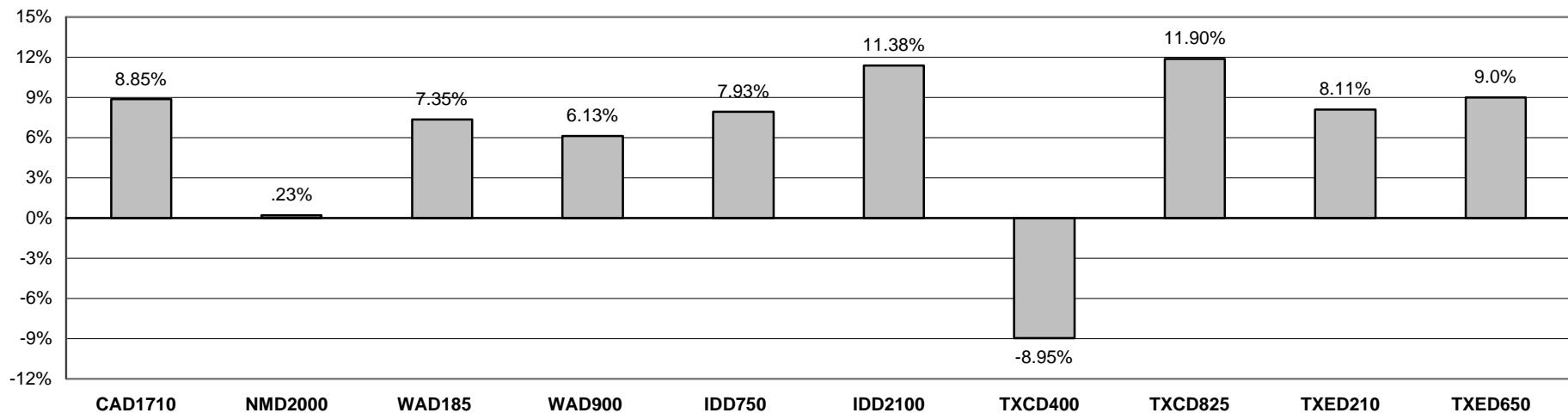
	WID70	WID600	MIED200	MICD140	NYWD800	NYWD1200	NYCD110	NYCD400	VTD134	VTD350
Annual Change Real Net Worth (%)										
1999-2004 Average	4.258	-2.427	2.282	0.966	6.726	8.244	7.869	9.443	3.493	3.783
Net Income Adjustment (NIA) 1999-2004 (\$1,000)	-30.21	64.9	-53.7	-15.21	-405.15	-716.24	-89.05	-440.68	-27.7	-113.31
Net Income Adjustment (NIA) 1999-2004 (% Receipts)	-12.37	3.55	-7.7	-3.21	-14.18	-16.59	-22.86	-30.33	-7.05	-9.15
Cost to Receipts Ratio (%) 2000-2004 Average	68.725	97.429	81.541	80.791	80.094	79.215	65.345	63.68	79.206	82.617
Govt Payments/Receipts (%) 2000-2004 Average	0	0	0.109	0.057	0	0	0	0	0	0
Total Cash Receipts (\$1000)										
1996	233.76	1853.63	682.21	458.18	3007.16	4370.39	391.47	1443.88	394.86	1242.79
1997	218.56	1731.63	639.29	433.98	2690.78	4084.71	364.79	1352.05	381.36	1191.06
1998	253.82	2025.21	724.93	487.41	3048.9	4687.71	420.6	1548.97	426.54	1346.78
1999	247.36	1854.47	708.24	476.86	2947.99	4464.74	399.63	1472.15	408.22	1283.94
2000	235.84	1761.67	675.05	458.61	2769.26	4189.52	376.65	1405.84	404.43	1272.2
2001	238.77	1782.4	682.79	464.21	2801.38	4227.28	381.89	1426.46	380.57	1192.13
2002	242.44	1812.12	692.74	470.64	2846.72	4298.3	388.5	1447.33	386.98	1212.29
2003	250.78	1875.53	713.87	484.83	2922.05	4412.41	398.55	1486.05	398.65	1249.26
2004	253.39	1898.6	722.33	488.72	2949.22	4457.42	401.96	1498.88	402.9	1265.96
Net Cash Farm Income (\$1000)										
1996	52.24	47.99	72.06	47.73	597.84	855.7	115.01	459.13	44.77	150.32
1997	52.9	-99.07	49.17	37.33	300.63	575.86	89.33	371.16	35.36	107.05
1998	105.86	283.25	182.42	117.95	801.62	1346.89	169.84	642.08	120.45	346.62
1999	90.79	208.2	180.13	118.04	776.46	1198.98	159.7	600.37	114.4	317.36
2000	72.5	84.98	132.32	88.96	555.16	896.54	130.53	517.3	101.78	281.51
2001	74.19	72.78	132.04	90.12	578.6	894.34	134.45	526.39	76.06	191.94
2002	77.66	61.75	133.63	91.55	577.57	912.36	136.1	528.82	76.27	197.28
2003	84.01	87.54	143.09	100.94	610.74	959.96	140.97	551.94	83.06	219.97
2004	85.61	58.93	141.71	92.7	592.07	921.22	141.08	542.14	81.93	216.12
Prob. of a Cash Flow Deficit (%)										
2000	26	67	26	28	11	5	1	1	8	9
2001	34	79	36	29	1	2	1	1	38	27
2002	31	83	47	41	11	1	1	1	38	30
2003	25	75	35	28	2	1	1	1	27	19
2004	26	87	38	54	10	3	2	1	31	26
Ending Cash Reserves (\$1000)										
1996	8.8	-71.9	24.01	5.7	280.33	445.75	40.2	215.67	-10.39	32.64
1997	14.43	-267.41	24.34	-1.89	348.35	676.94	61.5	365.49	-27.86	41.03
1998	52.23	-88.11	110.8	51.45	779.96	1407.27	135.46	692.82	12.88	204.92
1999	74.63	-48.39	177.38	89.12	1134.95	1993.64	193.99	966.91	31.38	315.16
2000	87.88	-92.52	213.32	106.57	1354.94	2408.95	245.8	1214.43	62.24	405.39
2001	99.52	-156.5	249.34	123.1	1621.43	2867.3	297	1479.13	68.52	446.93
2002	112.55	-244.68	277.69	131.1	1877.09	3339.81	346.37	1738.35	80.31	493.78
2003	128.71	-305.28	314.64	144.58	2162.55	3856.61	400.44	2014.93	96.63	556.08
2004	147.71	-421.36	352.86	145.51	2420.09	4329.4	448.28	2270.15	110.34	613.48
Prob. of Refinancing Deficits (%)										
2000	1	67	1	1	1	1	1	1	1	1
2001	1	71	1	1	1	1	1	1	2	1
2002	1	74	1	1	1	1	1	1	3	1
2003	2	71	1	1	1	1	1	1	2	1
2004	2	79	2	1	1	1	1	1	3	1
Nominal Net Worth (\$1000)										
1996	438.91	2094.49	1335.46	1105.71	3032.7	4190.53	547.75	1886.93	437.18	1518.63
1997	472.02	1997.29	1389.75	1160	3274.97	4675.71	604.06	2121.23	479.54	1656.76
1998	535.18	2213.64	1513.86	1199.57	3816.59	5561.9	691.62	2494.1	542.26	1852.61
1999	579.21	2302.99	1606.08	1241.45	4273.61	6308.01	766.22	2808.8	594.07	2017.71
2000	607.94	2317.55	1661.86	1269.23	4584.15	6877.92	836.41	3085.97	638.86	2153.28
2001	635	2274.61	1706.97	1288.94	4900.13	7419.61	899.01	3361.99	655.14	2218.31
2002	652.26	2202.44	1727.15	1292.79	5169.93	7926.81	958.52	3620.29	669.92	2274.27
2003	677.99	2157.39	1767.05	1307.39	5479.77	8499.65	1022.27	3898.94	691.87	2353.43
2004	703.96	2027.67	1793.06	1304.11	5722.53	8926.57	1069.91	4143.5	699.25	2404.34
Prob. of Losing Real Net Worth (%)										
2000	14	44	25	33	11	4	1	1	15	13
2001	5	53	12	22	1	1	1	1	13	4
2002	5	55	14	20	1	1	1	1	9	6
2003	2	63	9	14	1	1	1	1	4	2
2004	2	63	9	23	1	1	1	1	7	4

Table 11. Implications of the 1996 Farm Bill and the November 1999 FAPRI Baseline on the Economic Viability of Representative Farms Primarily Producing Milk.

	MOD85	MOD330	GAND200	GASD700	FLND500	FLSD1650
Annual Change Real Net Worth (%)						
1999-2004 Average	0.762	9.181	4.127	8.162	13.404	-16.741
Net Income Adjustment (NIA) 1999-2004 (\$1,000)	-4.39	-309.64	-60.19	-586.54	-482.99	491.21
Net Income Adjustment (NIA) 1999-2004 (% Receipts)	-1.76	-30.46	-8.74	-23.22	-27.37	9.11
Cost to Receipts Ratio (%) 2000-2004 Average	79.24	60.549	81.206	69.778	65.819	99.233
Govt Payments/Receipts (%) 2000-2004 Average	0	0	0	0	0	0
Total Cash Receipts (\$1000)						
1996	227.47	936.32	675.27	2440.05	1804.29	5075.95
1997	215.04	903.87	633.57	2298.05	1718.95	4840.59
1998	244.58	1061.03	714.28	2579.48	1896.03	5344.99
1999	251.14	1029.34	691.42	2528.01	1756.63	5363.46
2000	240.92	982.5	667.48	2446.62	1707.26	5211.05
2001	244.21	995.74	676.13	2478.98	1730.88	5284.49
2002	247.84	1011.1	685.44	2513.36	1757.92	5368.57
2003	255.12	1041.99	703.43	2578.22	1800.5	5501.01
2004	257.01	1052.3	712.16	2610.12	1826.9	5582.69
Net Cash Farm Income (\$1000)						
1996	3.63	247.11	-52.07	600.78	48.69	-391.04
1997	-9.35	227.28	-91.76	438.96	-32.23	-856.8
1998	48.13	443.08	116.49	840.36	494.97	160.48
1999	68.35	458.4	145.27	809.29	501.16	369.64
2000	49.73	393.76	124.85	749.69	587.1	99.11
2001	53.83	405.96	138.51	764.71	617.93	107.84
2002	53.42	406.06	133.23	772.31	610.21	69.68
2003	57.22	421.53	138.44	798.57	621.8	74.25
2004	56.35	418.71	133.53	796.16	621.5	67.22
Prob. of a Cash Flow Deficit (%)						
2000	99	2	83	1	1	99
2001	99	1	40	1	1	99
2002	99	1	26	1	1	99
2003	97	1	31	2	1	99
2004	98	3	25	2	1	99
Ending Cash Reserves (\$1000)						
1996	-35.13	99.91	-86.07	270.53	-20.03	-670.56
1997	-86.17	176.15	-213.61	419.88	-96.4	-1671.77
1998	-88.46	380.13	-135.07	813.29	198.88	-1981.64
1999	-76.23	558.34	-77.14	1148.45	438.79	-2165.57
2000	-84.2	714.24	-39.85	1474.53	742.84	-2528.45
2001	-87.8	886.64	8.73	1816.72	1063.13	-2886.83
2002	-94.05	1056.18	50.4	2156.02	1374.05	-3280.14
2003	-93.77	1234.5	92.28	2505.76	1688.83	-3671.7
2004	-96.77	1398.31	129.56	2859.95	2015.05	-4076.78
Prob. of Refinancing Deficits (%)						
2000	99	1	83	1	1	99
2001	99	1	40	1	1	99
2002	99	1	22	1	1	99
2003	97	1	19	1	1	99
2004	97	1	13	1	1	99
Nominal Net Worth (\$1000)						
1996	546.58	1393.53	896.4	3118.99	1603.4	3173.9
1997	527.02	1530.04	820.06	3361.92	1599.36	2352.05
1998	555.11	1774.76	939.66	3810.02	1937.9	2203.38
1999	593.67	1996.37	1025.67	4198.21	2213.53	2140.38
2000	602.73	2185.49	1080.23	4564.89	2550.19	1866.64
2001	614.17	2381.16	1134.76	4915.49	2880.19	1553.78
2002	611.79	2559.08	1169.47	5240.24	3181.13	1152.2
2003	618.61	2754.61	1209.68	5600.4	3400.89	782.16
2004	617.57	2918.79	1239.89	5923.64	3704.73	349.54
Prob. of Losing Real Net Worth (%)						
2000	40	3	15	2	1	82
2001	26	1	6	1	1	92
2002	35	1	9	1	1	96
2003	31	1	5	1	1	92
2004	38	1	4	1	1	96

Figure 24. Dairy Farms

Average Annual Percentage Change in Real Net Worth 1999-2002



Average Annual Percentage Change in Receipts 1999-2002 Needed to Maintain 1999 Net Worth

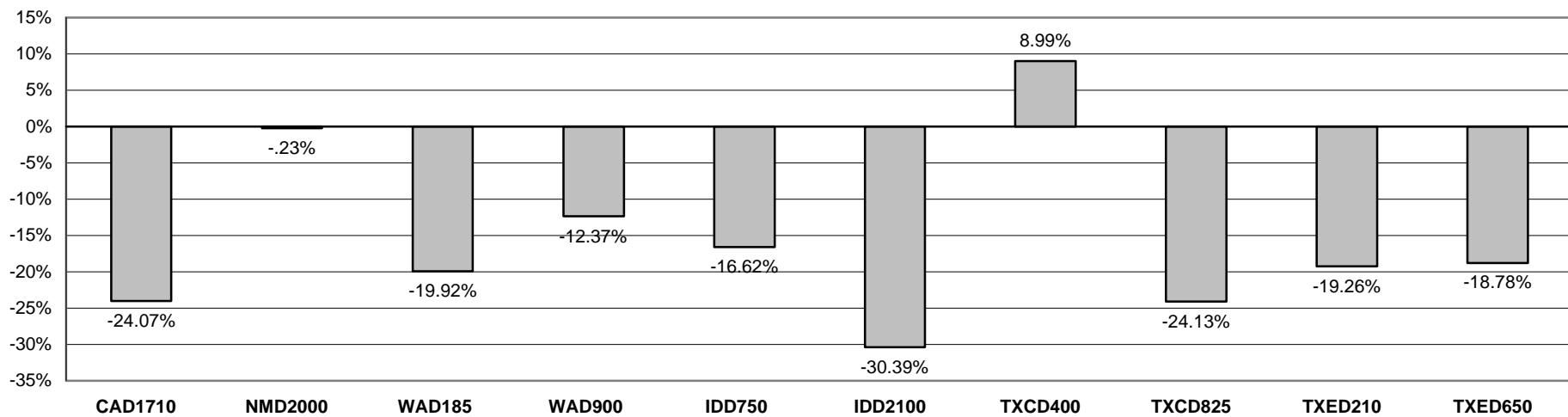
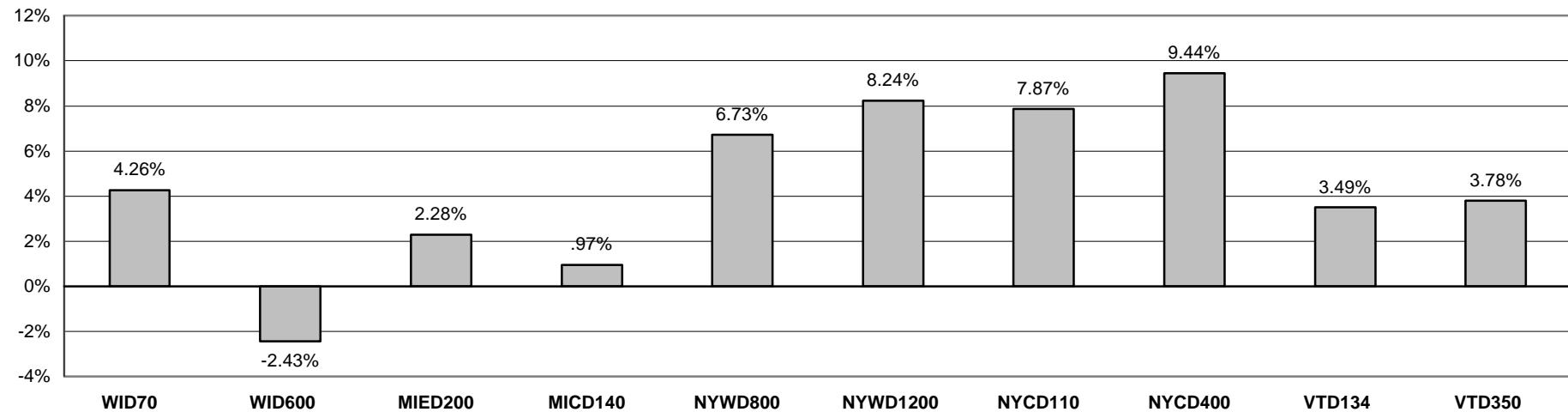


Figure 25. Dairy Farms

Average Annual Percentage Change in Real Net Worth 1999-2002



Average Annual Percentage Change in Receipts 1999-2002 Needed to Maintain 1999 Net Worth

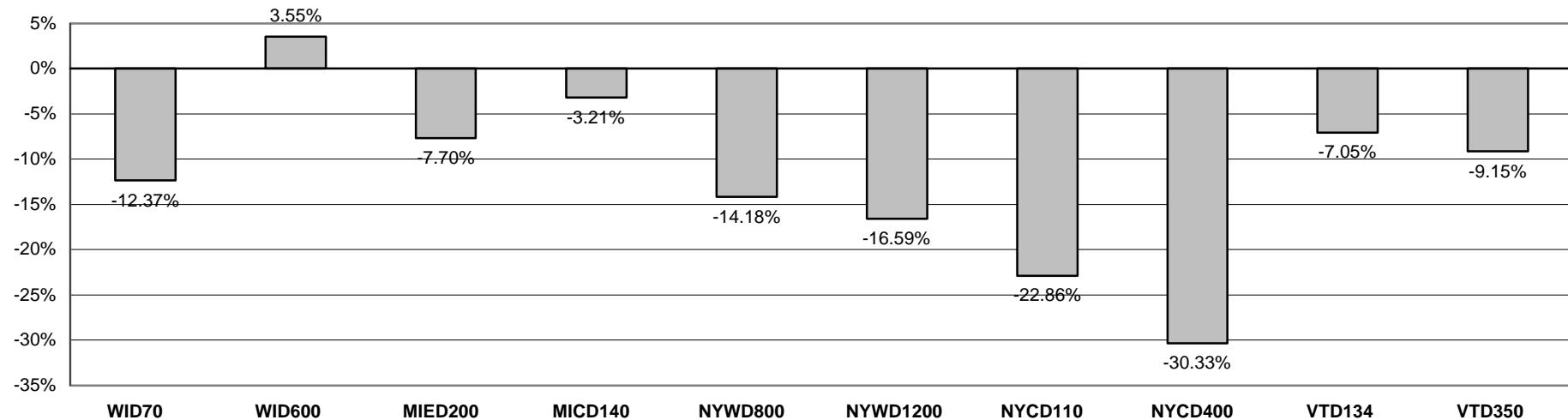
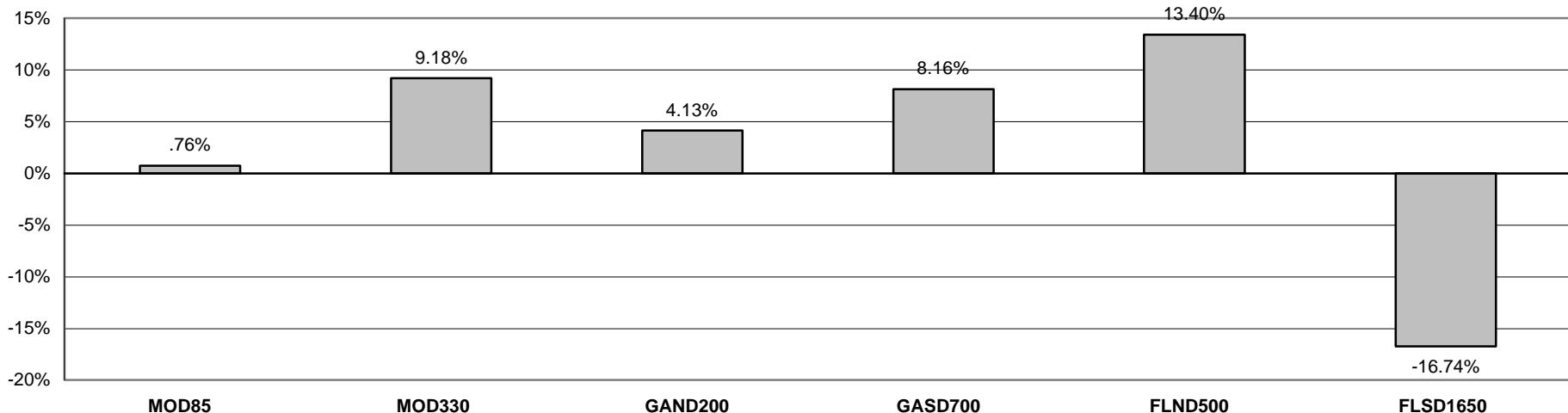
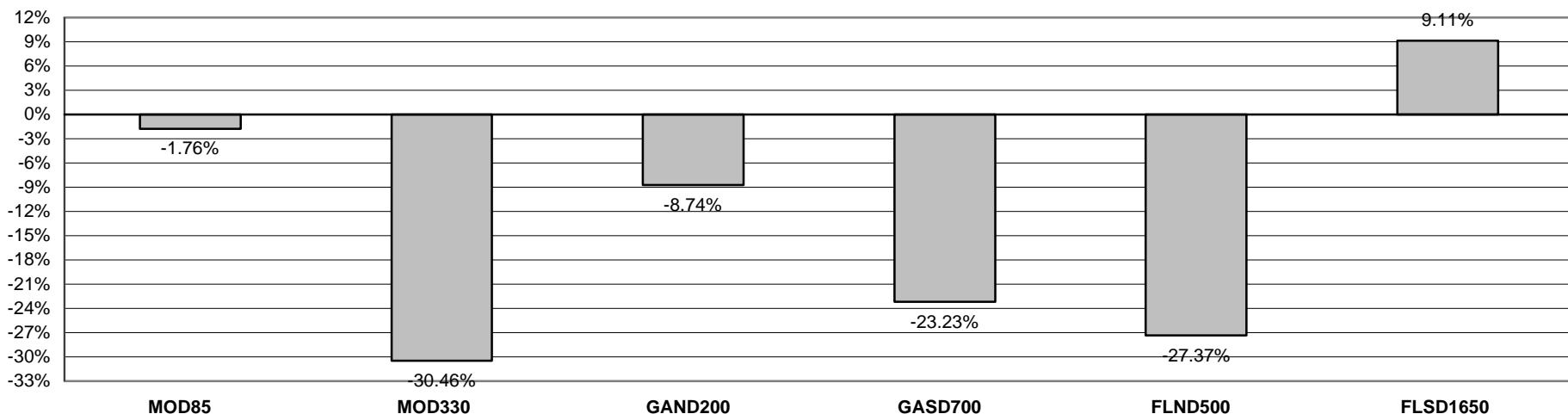


Figure 26. Dairy Farms

Average Annual Percentage Change in Real Net Worth 1999-2002



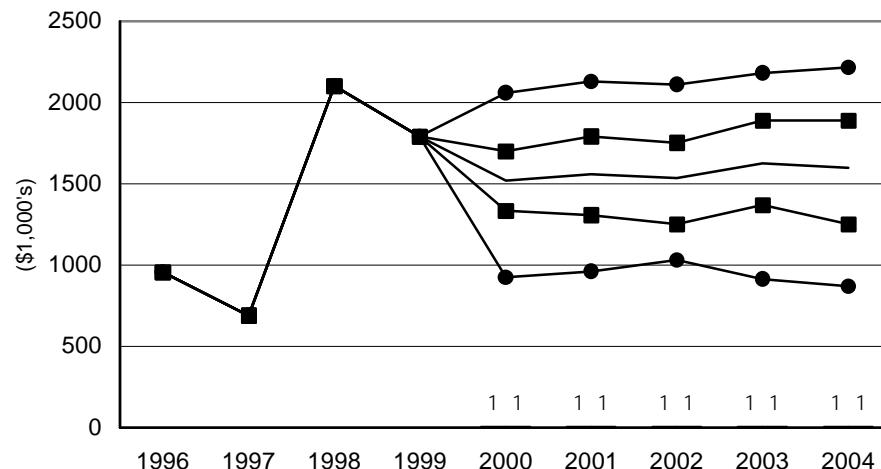
Average Annual Percentage Change in Receipts 1999-2002 Needed to Maintain 1999 Net Worth



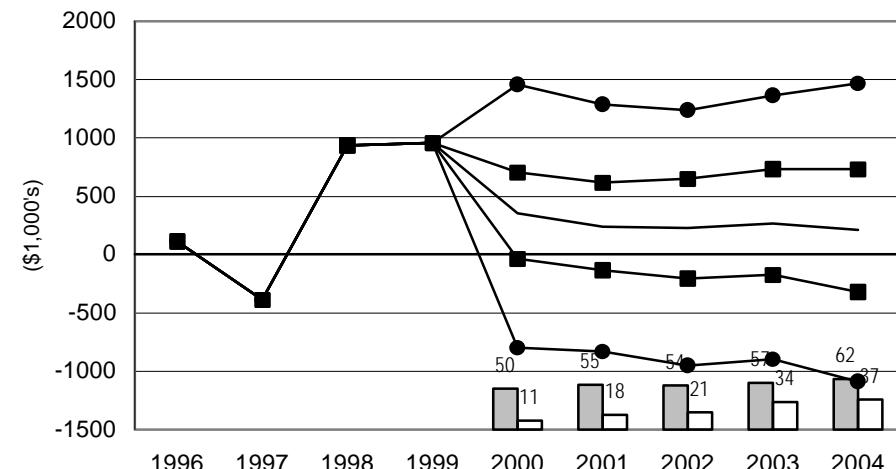
**Figure 27. Net Cash Farm Income and Probabilities of a Cash Flow Deficit and Refinancing:
Dairy Farms**

— Mean NCFY ■ 25 & 75 Percentile NCFY ● 5 & 95 Percentile NCFY ■ Prob. of Cash Flow Deficit □ Prob. of Refinancing

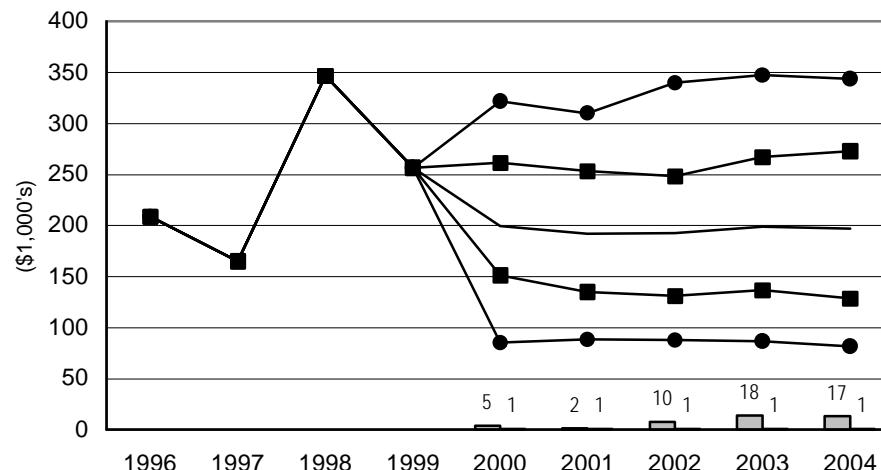
CAD1710 California Dairy Farm



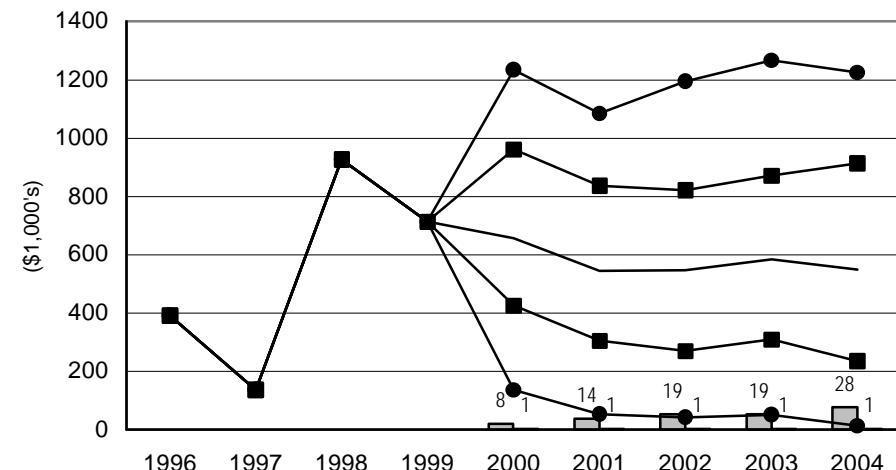
NMD2000 New Mexico Dairy Farm



WAD185 Washington Dairy Farm

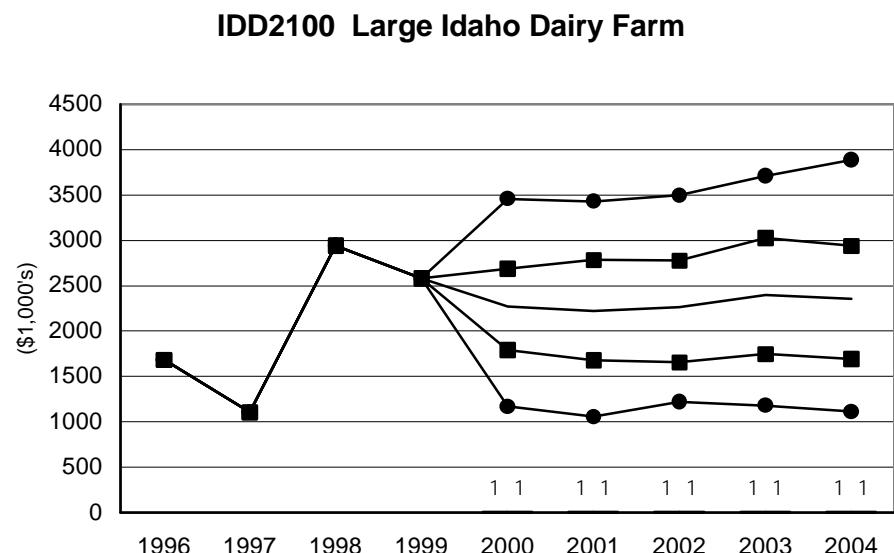
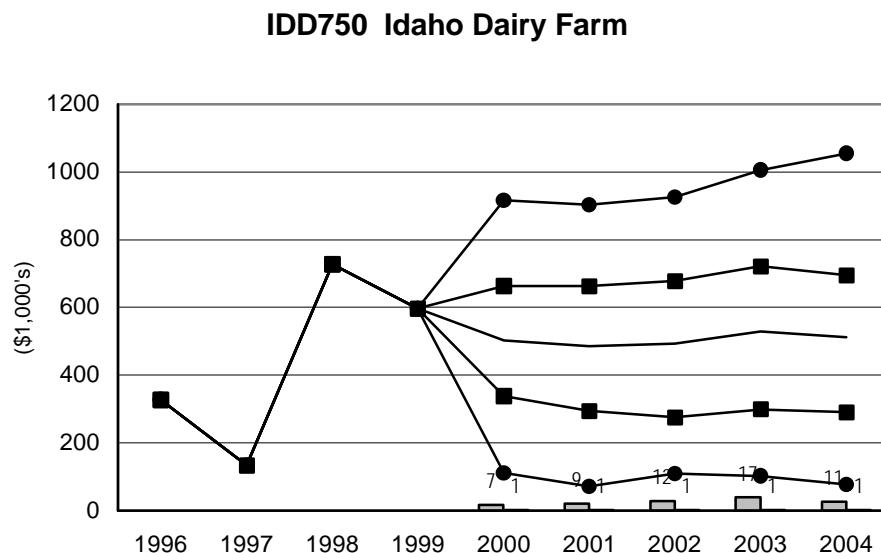


WAD900 Large Washington Dairy Farm



**Figure 28. Net Cash Farm Income and Probabilities of a Cash Flow Deficit and Refinancing:
Dairy Farms**

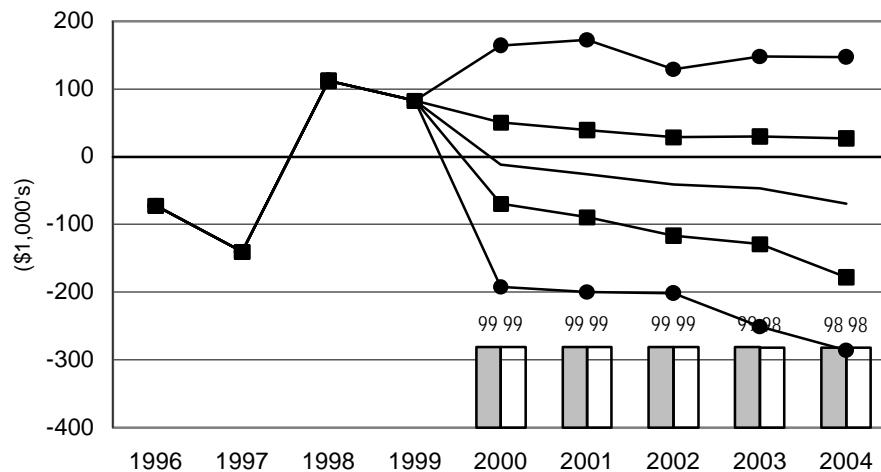
— Mean NCFY ■ 25 & 75 Percentile NCFY ● 5 & 95 Percentile NCFY ■ Prob. of Cash Flow Deficit □ Prob. of Refinancing



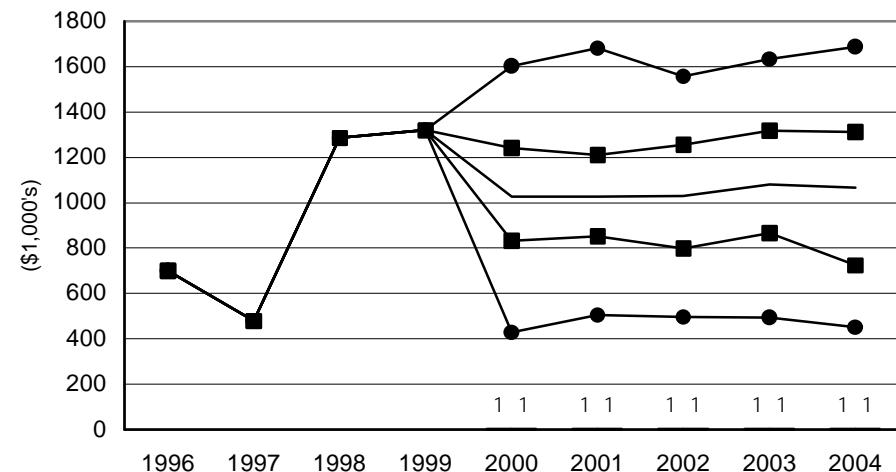
**Figure 29. Net Cash Farm Income and Probabilities of a Cash Flow Deficit and Refinancing:
Dairy Farms**

— Mean NCFY ■ 25 & 75 Percentile NCFY ● 5 & 95 Percentile NCFY ■ Prob. of Cash Flow Deficit □ Prob. of Refinancing

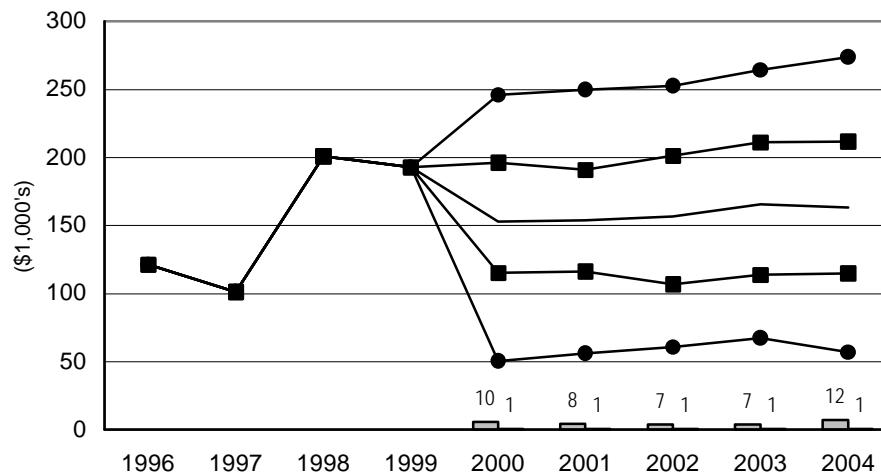
TXCD400 Central Texas Dairy Farm



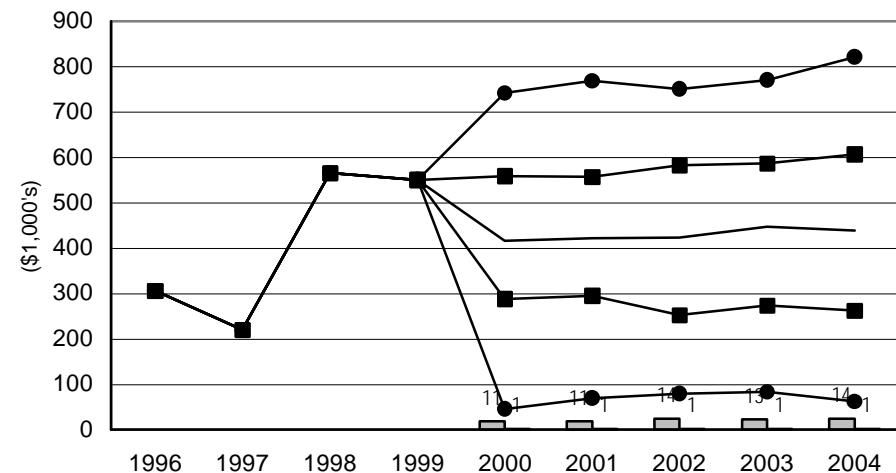
TXCD825 Large Central Texas Dairy Farm



TXED210 East Texas Dairy Farm



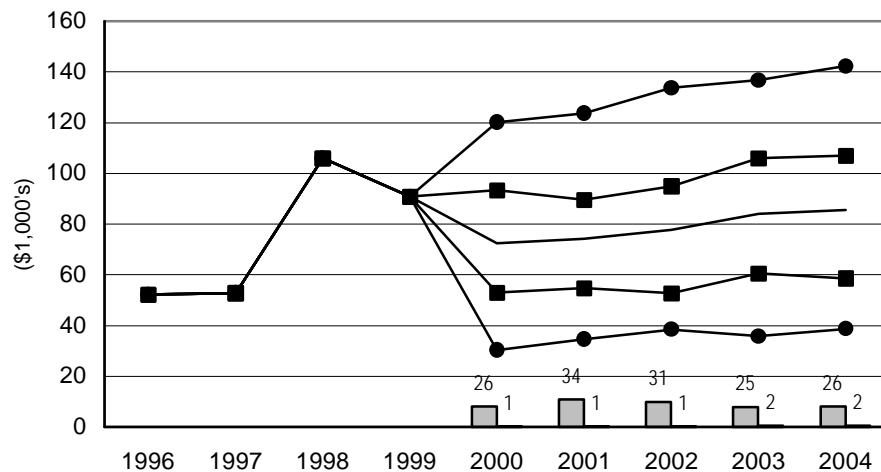
TXED650 Large East Texas Dairy Farm



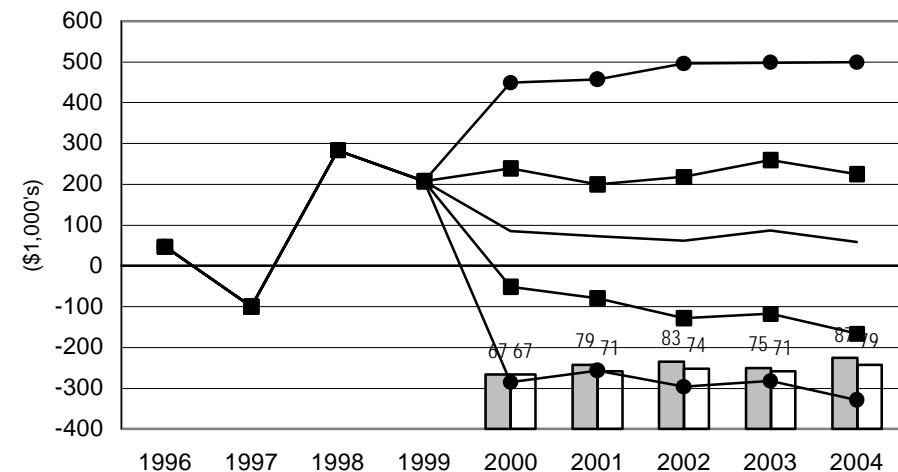
**Figure 30. Net Cash Farm Income and Probabilities of a Cash Flow Deficit and Refinancing:
Dairy Farms**

— Mean NCFY ■ 25 & 75 Percentile NCFY ● 5 & 95 Percentile NCFY ■ Prob. of Cash Flow Deficit □ Prob. of Refinancing

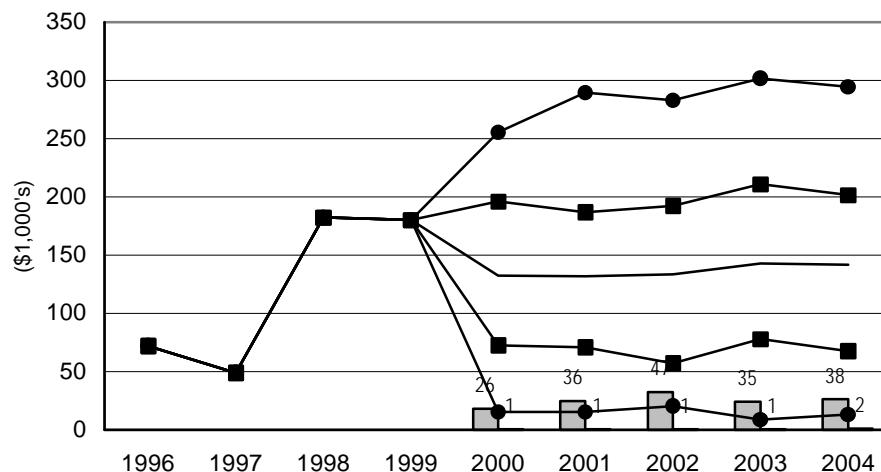
WID70 Wisconsin Dairy Farm



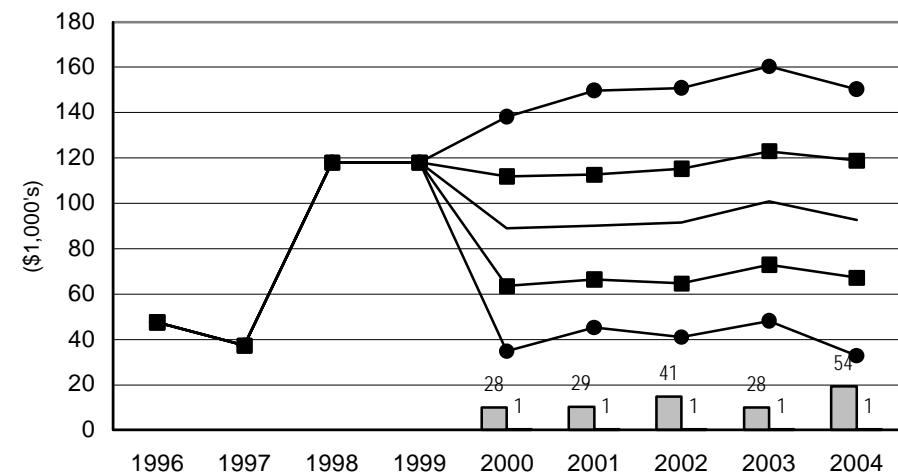
WID600 Wisconsin Dairy Farm



MIED200 Eastern Michigan Dairy Farm



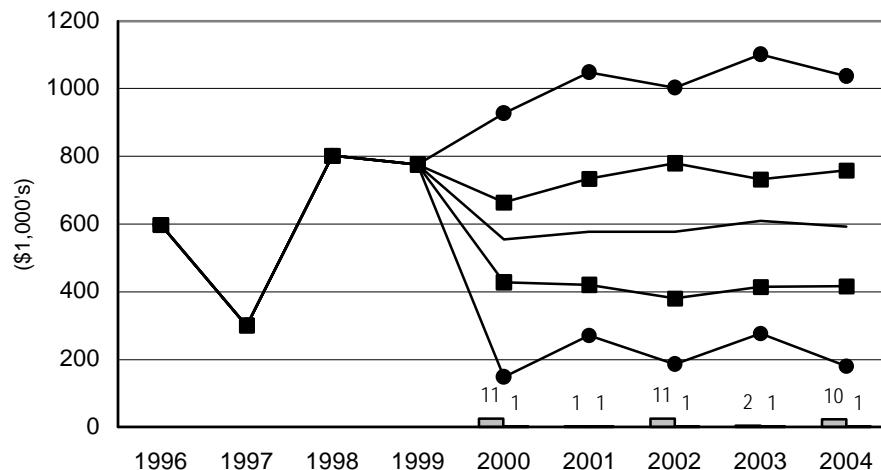
MICD140 Central Michigan Dairy Farm



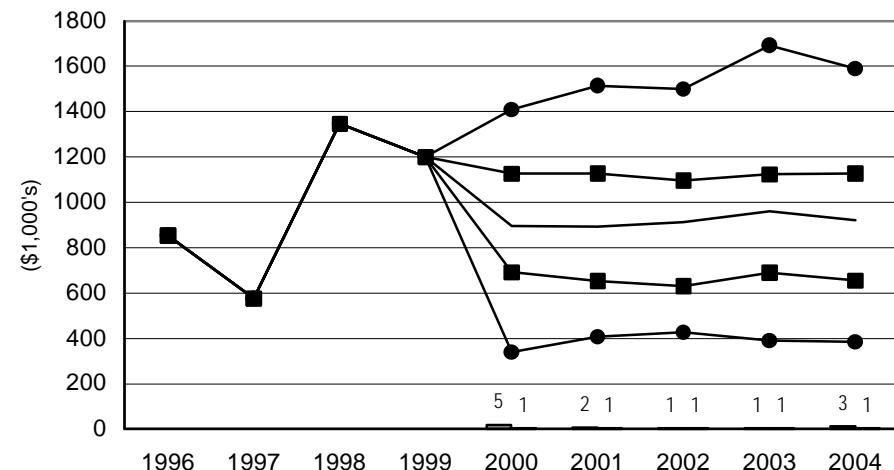
**Figure 31. Net Cash Farm Income and Probabilities of a Cash Flow Deficit and Refinancing:
Dairy Farms**

— Mean NCFY ■ 25 & 75 Percentile NCFY ● 5 & 95 Percentile NCFY ■ Prob. of Cash Flow Deficit □ Prob. of Refinancing

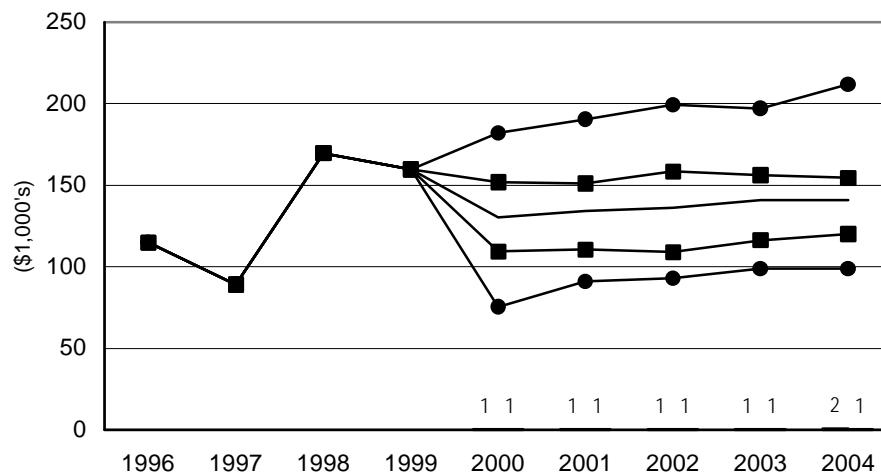
NYWD800 Western New York Dairy Farm



NYWD1200 Large Western New York Dairy Farm



NYCD110 Central New York Dairy Farm



NYCD400 Large Central New York Dairy Farm

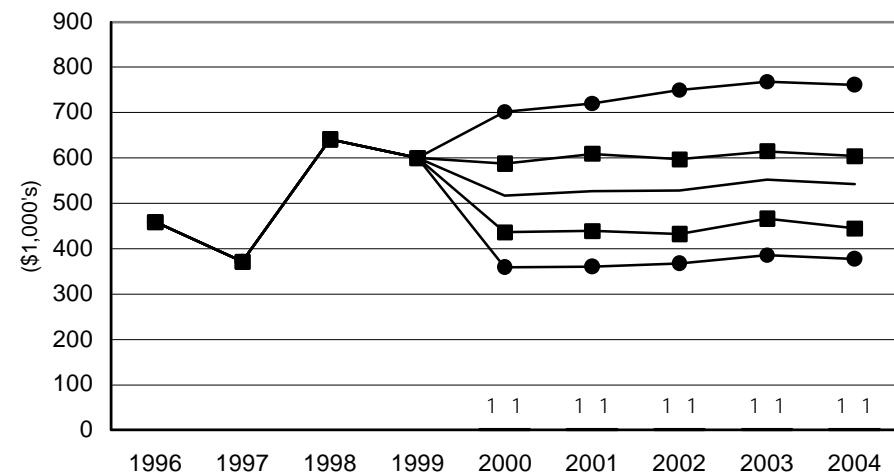
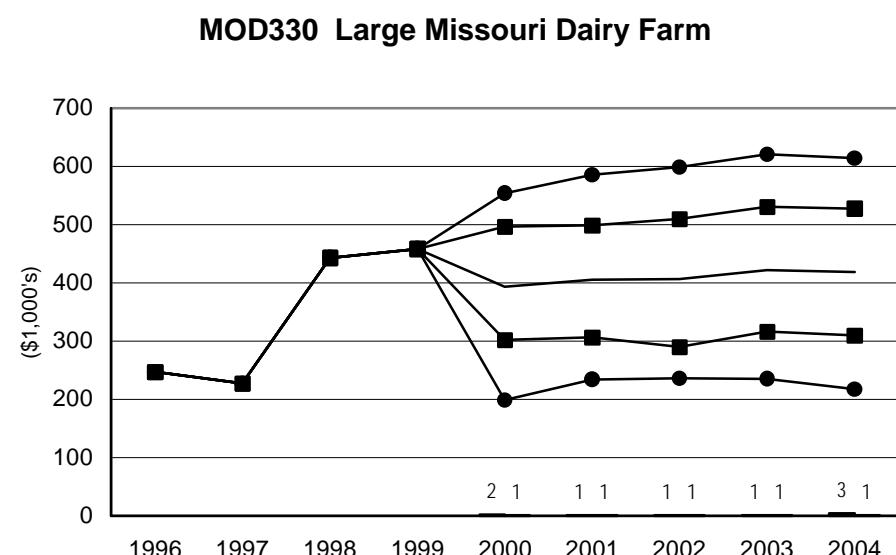
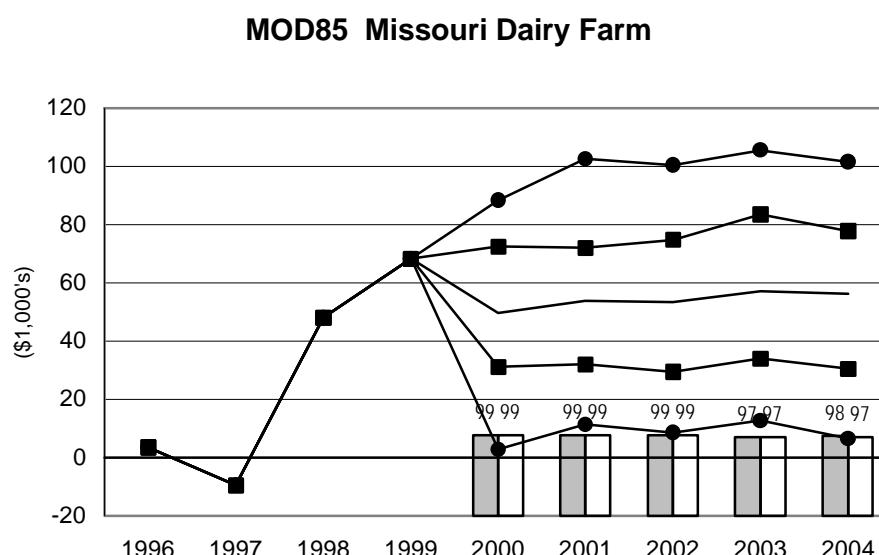
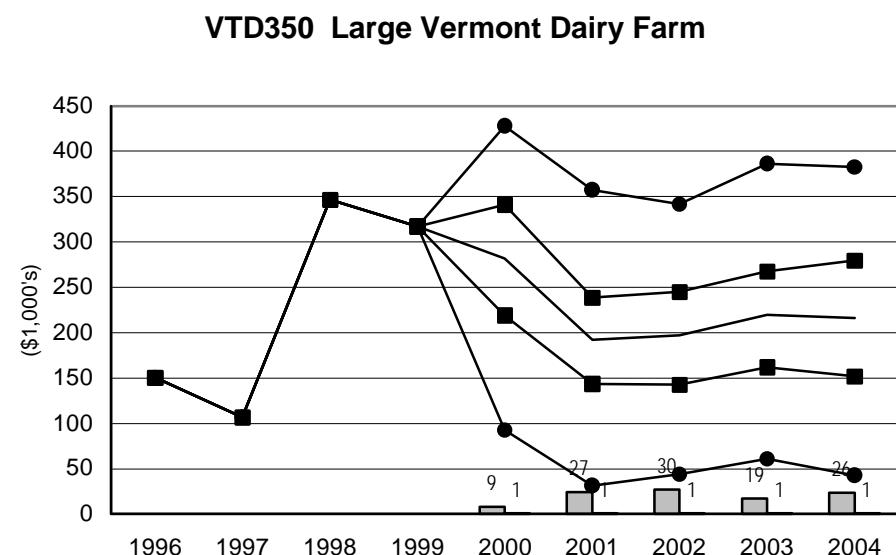
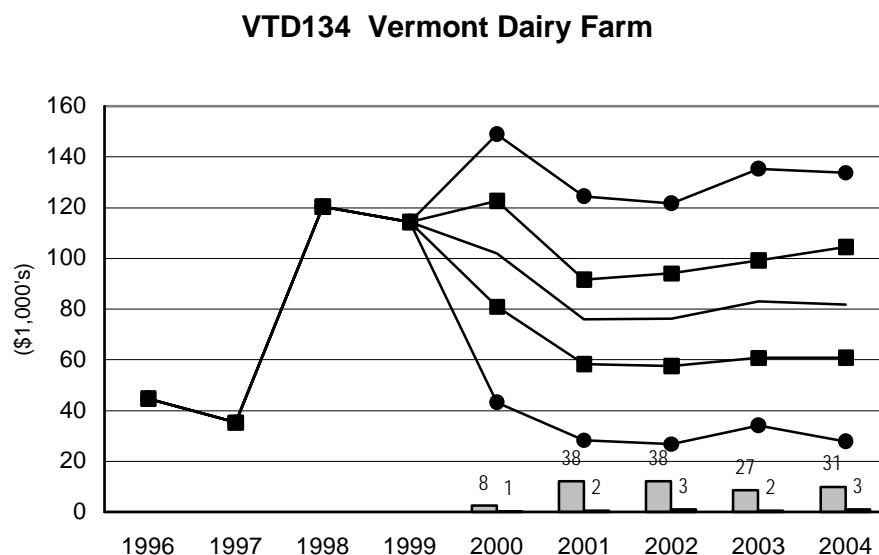


Figure 32. Net Cash Farm Income and Probabilities of a Cash Flow Deficit and Refinancing: Dairy Farms

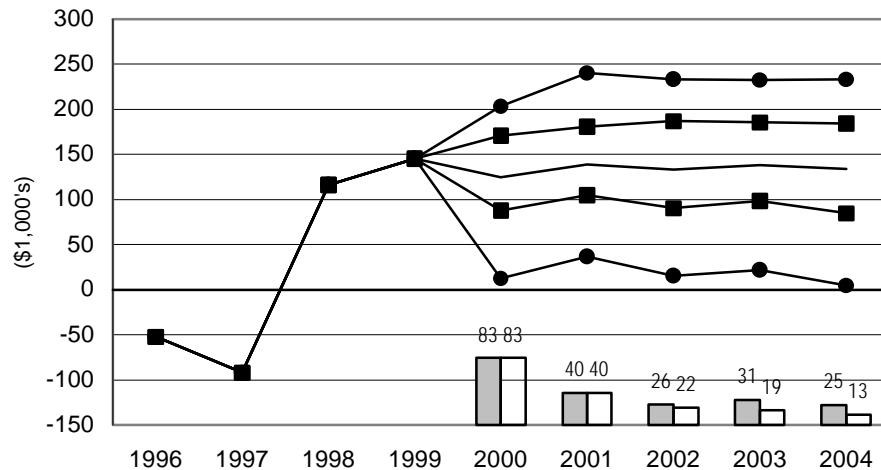
— Mean NCFY ■ 25 & 75 Percentile NCFY ● 5 & 95 Percentile NCFY ■ Prob. of Cash Flow Deficit □ Prob. of Refinancing



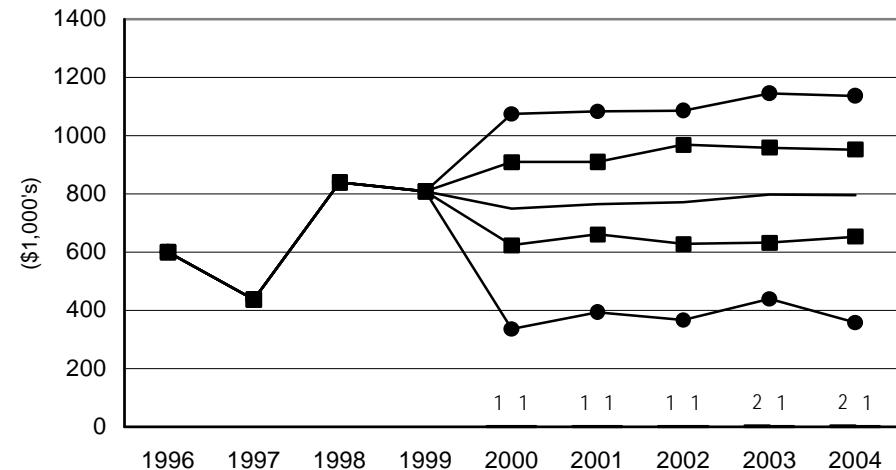
**Figure 33. Net Cash Farm Income and Probabilities of a Cash Flow Deficit and Refinancing:
Dairy Farms**

— Mean NCFY ■ 25 & 75 Percentile NCFY ● 5 & 95 Percentile NCFY ■■ Prob. of Cash Flow Deficit □□ Prob. of Refinancing

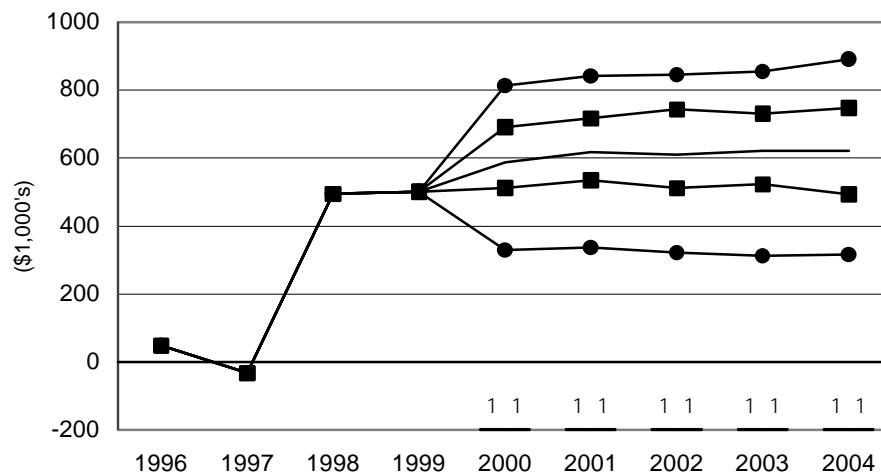
GAND200 Northern Georgia Dairy Farm



GASD700 Southern Georgia Dairy Farm



FLND500 Northern Florida Dairy Farm



FLSD1650 Southern Florida Dairy Farm

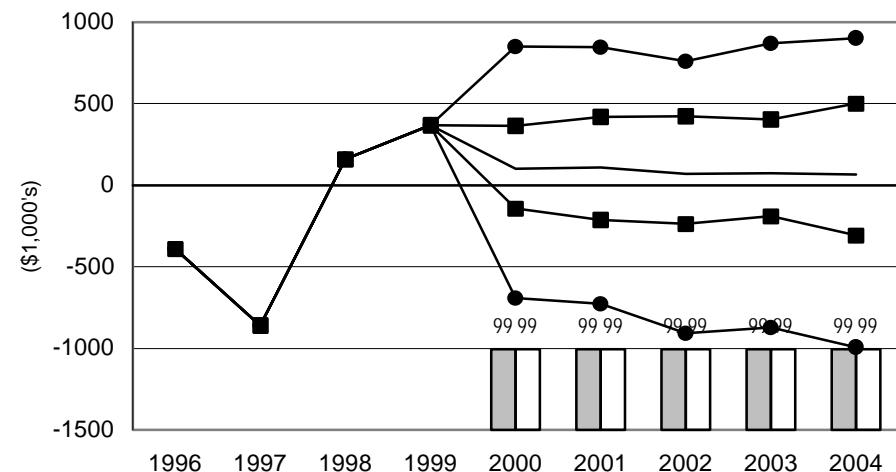


FIGURE 34. REPRESENTATIVE FARMS PRODUCING BEEF CATTLE



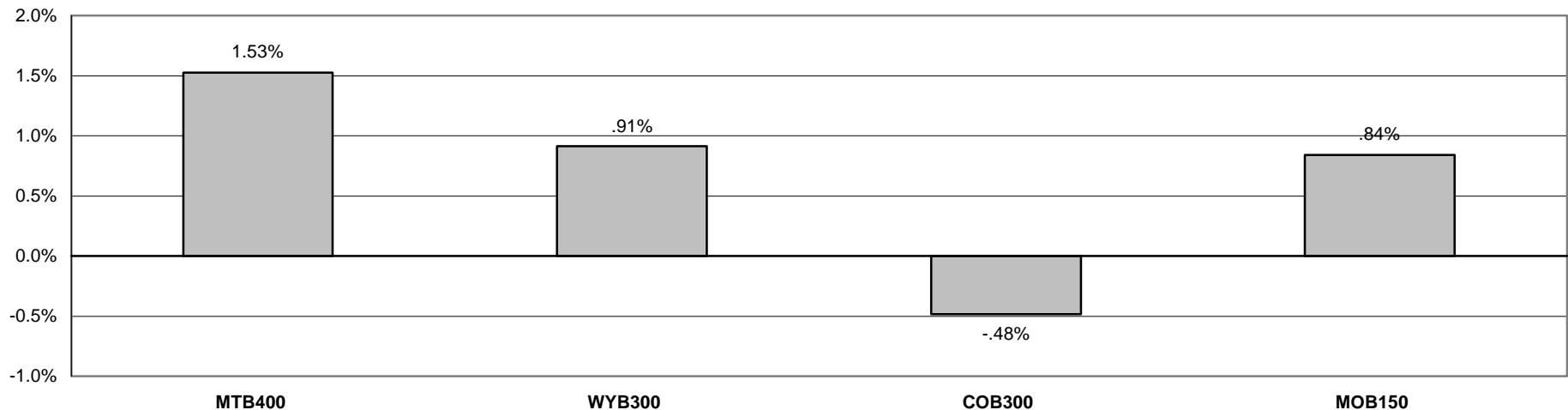
Beef Cattle Notes

Table 12. Implications of the 1996 Farm Bill and the November 1999 FAPRI Baseline on the Economic Viability of Representative Farms Primarily Producing Beef Cattle.

	MTB400	WYB300	COB300	MOB150
Annual Change Real Net Worth (%)				
1999-2004 Average	1.525	0.912	-0.484	0.841
Net Income Adjustment (NIA) 1999-2004 (\$1,000)	-36.07	-5.01	26	-4.96
Net Income Adjustment (NIA) 1999-2004 (% Receipts)	-21.99	-3.78	16.12	-4.17
Cost to Receipts Ratio (%) 2000-2004 Average	51.959	78.353	69.085	70.39
Govt Payments/Receipts (%) 2000-2004 Average	0	0	0	4.556
Total Cash Receipts (\$1000)				
1996	103.08	87.35	135.71	97.27
1997	139.54	114.94	151.57	119.45
1998	134.39	111.12	153.2	107.83
1999	142.32	117.17	155.81	114.92
2000	157.76	127.75	166.7	116.37
2001	162.84	131.72	172.45	117.04
2002	166.67	134.69	175.96	119.87
2003	170.16	137.21	178.16	121.85
2004	162.52	131.4	173.3	119.61
Net Cash Farm Income (\$1000)				
1996	14.89	-3.63	12.59	15.88
1997	50.38	23.17	31.1	37.75
1998	44.58	-3.87	37.41	17.52
1999	63	21.97	42.05	33.57
2000	75.83	28.71	46.73	33.73
2001	79.26	29.35	54.08	34.72
2002	83.44	32.79	57.99	37.08
2003	84.92	33	59.45	39.88
2004	79.57	29.02	55.31	38.14
Prob. of a Cash Flow Deficit (%)				
2000	1	99	25	88
2001	6	99	15	79
2002	2	97	14	74
2003	1	94	14	53
2004	5	87	18	43
Ending Cash Reserves (\$1000)				
1996	-9.21	-22.89	-13.71	-7.41
1997	5.35	-21.99	-13.5	2.1
1998	14.21	-49.46	-11.26	-18.91
1999	43.77	-46.79	2.75	-17.98
2000	84.97	-48.72	11.12	-17.68
2001	119.84	-48.06	28.37	-15.65
2002	159.59	-50.8	44.52	-14.64
2003	198.03	-49.49	59.52	-2.68
2004	232.29	-50.63	72.13	8.88
Prob. of Refinancing Deficits (%)				
2000	1	99	19	88
2001	1	99	5	78
2002	1	97	3	67
2003	1	94	2	52
2004	1	86	1	40
Nominal Net Worth (\$1000)				
1996	1504.21	533.08	2634	580.51
1997	1641.9	594.01	2810	630.44
1998	1721.07	583.72	2946.34	636.19
1999	1789.61	602.57	3022.59	653.35
2000	1845.82	627.11	3035.37	662.92
2001	1887.4	635.11	3043.43	672.98
2002	1899.88	635.89	2997.59	672.68
2003	1920.71	642.26	2971.87	682.81
2004	1930.02	631.35	2955.58	682.22
Prob. of Losing Real Net Worth (%)				
2000	20	28	36	32
2001	9	27	37	29
2002	8	27	65	28
2003	4	24	81	21
2004	5	26	91	25

Figure 35. Cattle Ranches

Average Annual Percentage Change in Real Net Worth 1999-2002



Average Annual Percentage Change in Receipts 1999-2002 Needed to Maintain 1999 Net Worth

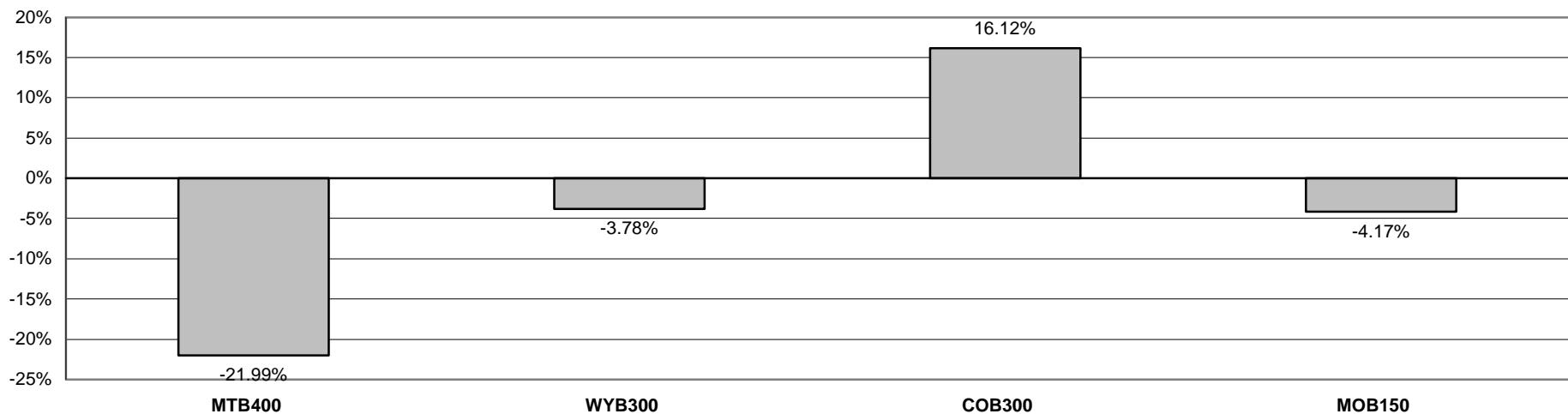
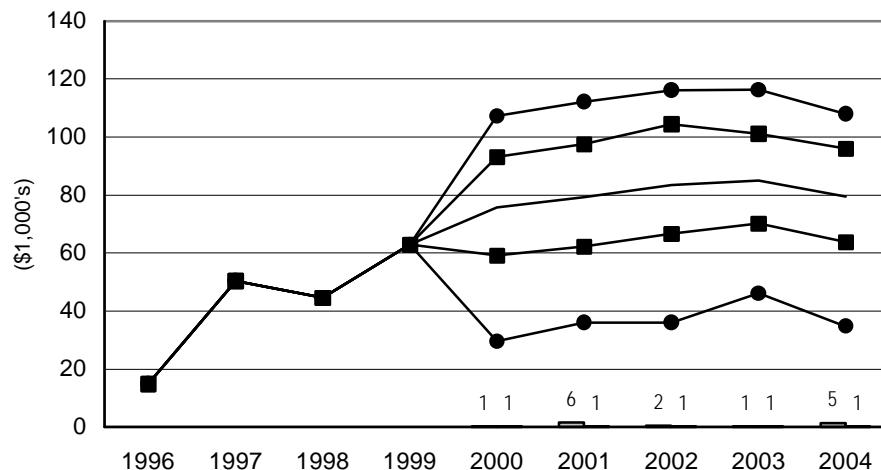


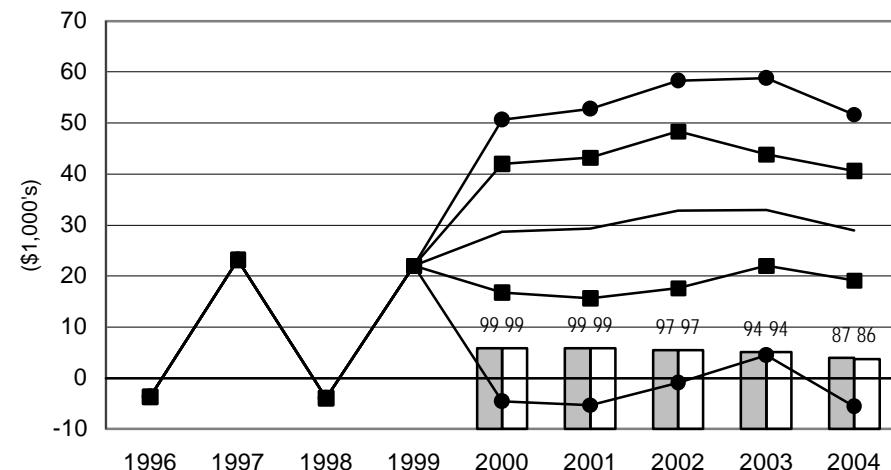
Figure 36. Net Cash Farm Income and Probabilities of a Cash Flow Deficit and Refinancing: Cattle Ranches

— Mean NCFY ■ 25 & 75 Percentile NCFY ● 5 & 95 Percentile NCFY ■ Prob. of Cash Flow Deficit □ Prob. of Refinancing

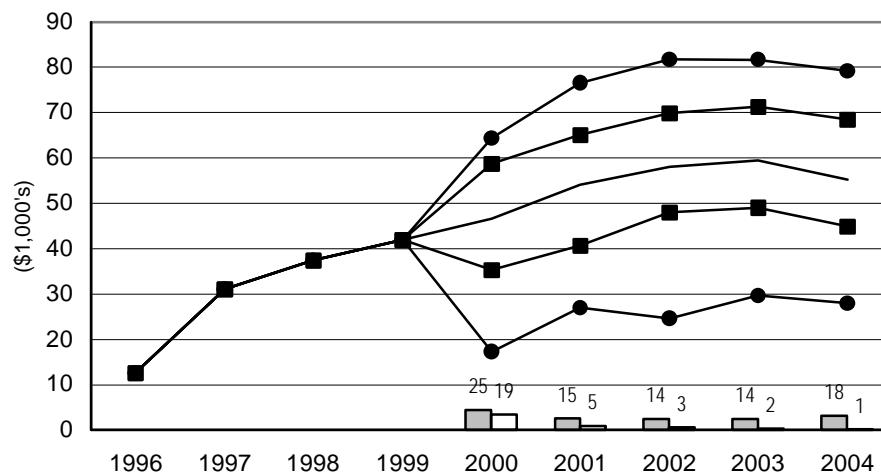
MTB400 Montana Cattle Ranch



WYB300 Wyoming Cattle Ranch



COB300 Colorado Cattle Ranch



MOB150 Southwest Missouri Cattle Ranch

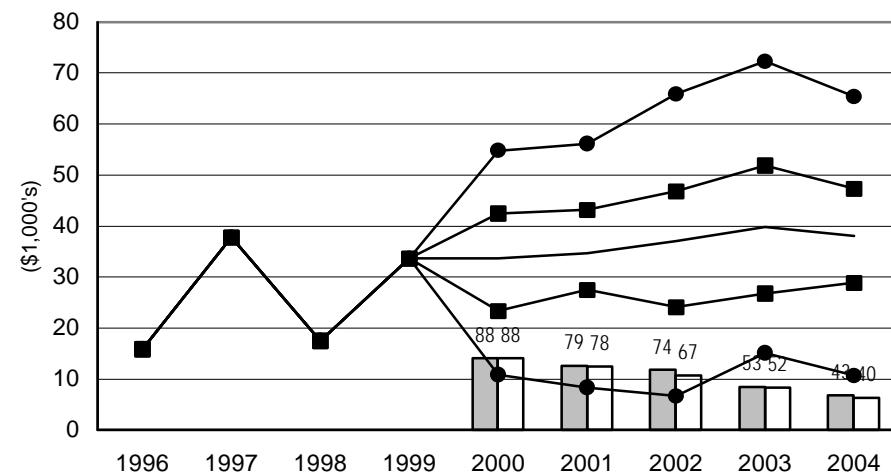


FIGURE 37. REPRESENTATIVE FARMS PRODUCING HOGS



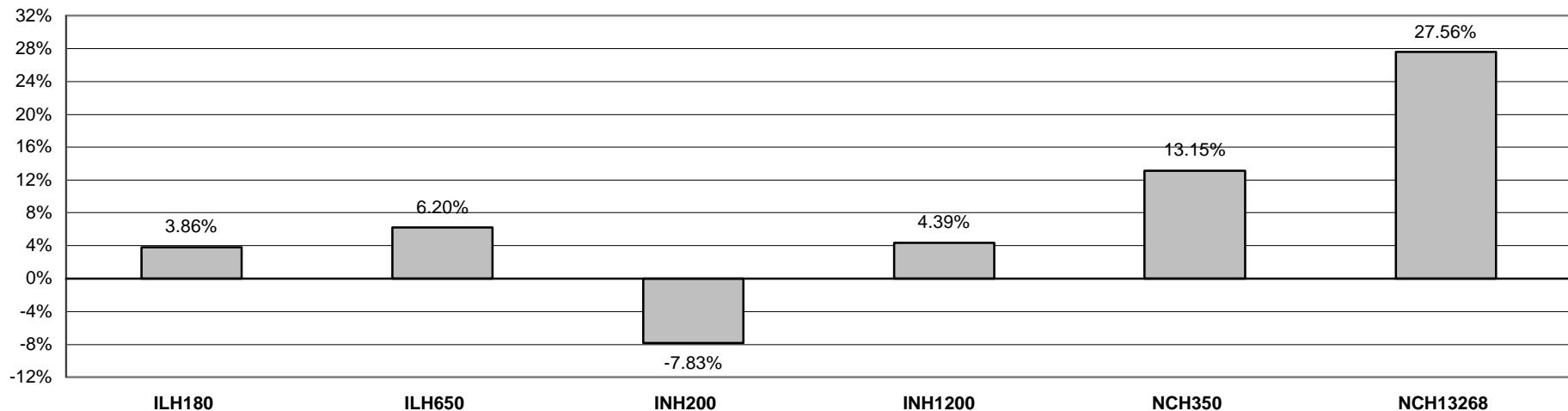
Hog Farm Notes

Table 13. Implications of the 1996 Farm Bill and the November 1999 FAPRI Baseline on the Economic Viability of Representative Farms Primarily Producing Hogs.

	ILH180	ILH650	INH200	INH1200	NCH350	NCH13268
Annual Change Real Net Worth (%)						
1999-2004 Average	3.862	6.199	-7.826	4.391	13.146	27.562
Net Income Adjustment (NIA) 1999-2004 (\$1,000)						
-45.13	-339.98	91.45	-174	-164.78	-5596.09	
Net Income Adjustment (NIA) 1999-2004 (% Receipts)						
-8.88	-19.04	20.45	-5.66	-22.12	-20.33	
Cost to Receipts Ratio (%) 2000-2004 Average						
74.348	69.715	103.391	87.619	69.751	79.823	
Govt Payments/Receipts (%) 2000-2004 Average						
4.005	3.601	5.88	3.139	0	0	
Total Cash Receipts (\$1000)						
1996	710.05	2424.98	611.23	3252.97	999.94	36969.22
1997	708.95	2412.37	606.05	3986.94	964.25	35634.61
1998	484.89	1477.5	401.39	2598.95	634.78	23433.1
1999	487.94	1533.58	421.99	2672.12	592.54	21884.03
2000	474.73	1662.94	417	2852.6	683.71	25254.86
2001	506.49	1812.05	450.26	3109.78	759.31	28067.19
2002	520.94	1849.72	460.86	3190.4	778.87	28792.13
2003	531.82	1843.51	462.58	3185.06	771.64	28526.71
2004	519.09	1757.42	445.17	3041.92	730.41	26999
Net Cash Farm Income (\$1000)						
1996	240.72	898.97	134.67	632.21	268.89	10293.82
1997	244.78	976.61	141.17	422.94	327.29	10154.74
1998	69.5	287.39	-4.36	0.68	91.74	1051.68
1999	105.64	307.53	11.22	206.13	98.62	1328.59
2000	113.67	449.71	-10.63	252.52	184.38	4347.49
2001	138.7	597.01	9.64	479.98	253.23	6860.48
2002	148.21	624.15	1.89	503.07	265.47	7123.12
2003	143.99	604.62	-9.05	486.63	251.75	6420.94
2004	130.57	496.04	-40.04	340.85	205.29	4484.51
Prob. of a Cash Flow Deficit (%)						
2000	17	15	99	99	5	6
2001	13	2	99	82	1	1
2002	23	1	99	71	1	1
2003	47	2	99	62	1	2
2004	54	27	99	67	12	19
Ending Cash Reserves (\$1000)						
1996	68.8	317.41	5.67	76.25	69.69	4755.17
1997	142.71	626.6	-0.58	29.1	169.25	9251.83
1998	81.77	522.08	-120.62	-352.06	120.78	8046.42
1999	55.78	418.88	-213.89	-516.01	99.85	7193.48
2000	86.55	565.47	-283.61	-487.53	170.43	9887.17
2001	123.07	799.83	-337.36	-319.82	276.11	14153.06
2002	151.69	1035.05	-422.31	-182.61	388.38	18587.68
2003	160.86	1264.24	-523.05	-54.21	487.89	22696.44
2004	163.43	1385.65	-672.66	-44.87	566.99	25723.04
Prob. of Refinancing Deficits (%)						
2000	1	1	99	99	1	1
2001	1	1	99	82	1	1
2002	1	1	99	68	1	1
2003	1	1	99	59	1	1
2004	2	1	99	55	1	1
Nominal Net Worth (\$1000)						
1996	764.18	3284.23	1066.26	2980.55	762.85	13645.61
1997	872.76	3897.64	1152.74	3507.51	894.55	19115.43
1998	801.05	3726.67	1081.34	3028.29	773.83	14711.36
1999	826.48	3861.86	1059.94	3070.67	784.72	14769.25
2000	870.89	4117.39	1010.21	3226.87	890.39	18808.8
2001	918.73	4442.32	976.31	3515.37	1024	24054.78
2002	950.75	4700.94	884.33	3643.16	1140.82	28768.09
2003	968.94	4911.87	778.62	3770.27	1236.3	32762.36
2004	988.11	5069.38	646.54	3752.63	1303.2	35195.51
Prob. of Losing Real Net Worth (%)						
2000	16	9	79	39	5	6
2001	6	1	86	14	1	1
2002	3	1	95	12	1	1
2003	5	1	99	8	1	1
2004	2	1	99	11	1	1

Figure 38. Hog Farms

Average Annual Percentage Change in Real Net Worth 1999-2002



Average Annual Percentage Change in Receipts 1999-2002 Needed to Maintain 1999 Net Worth

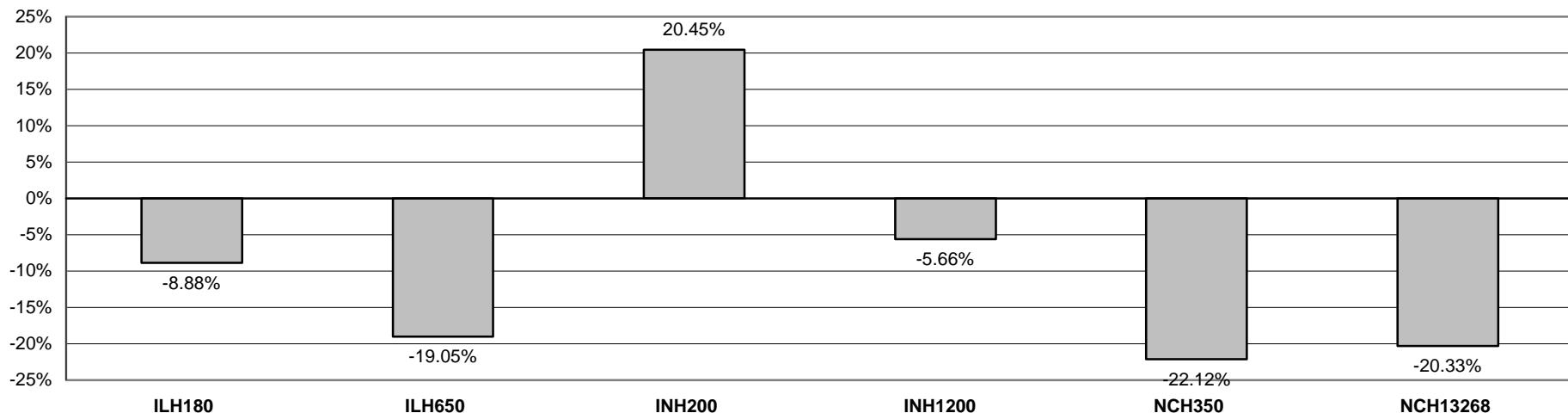


Figure 39. Net Cash Farm Income and Probabilities of a Cash Flow Deficit and Refinancing: Hog Farms

— Mean NCFY ■ 25 & 75 Percentile NCFY ● 5 & 95 Percentile NCFY ■ Prob. of Cash Flow Deficit □ Prob. of Refinancing

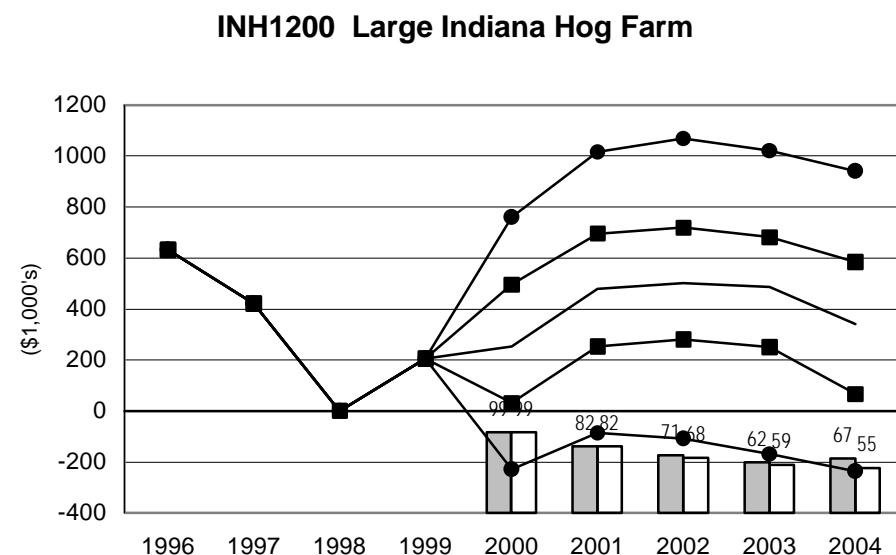
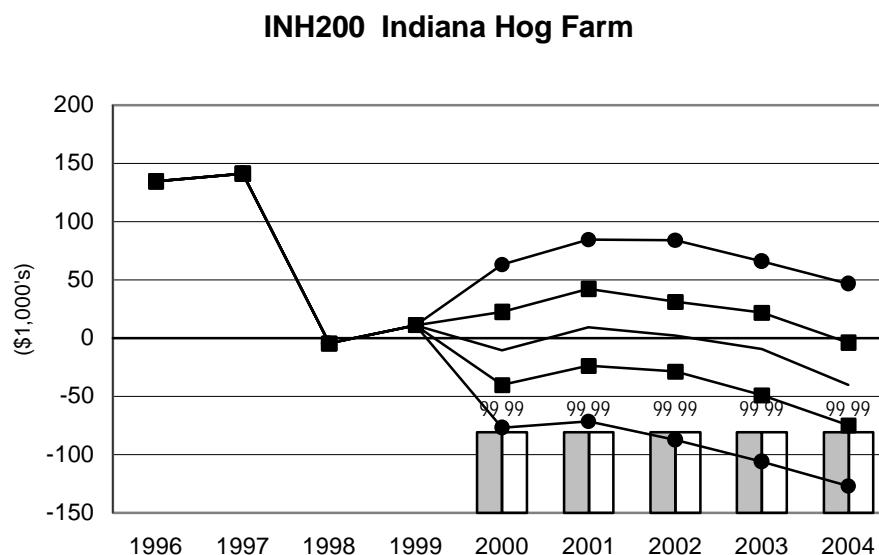
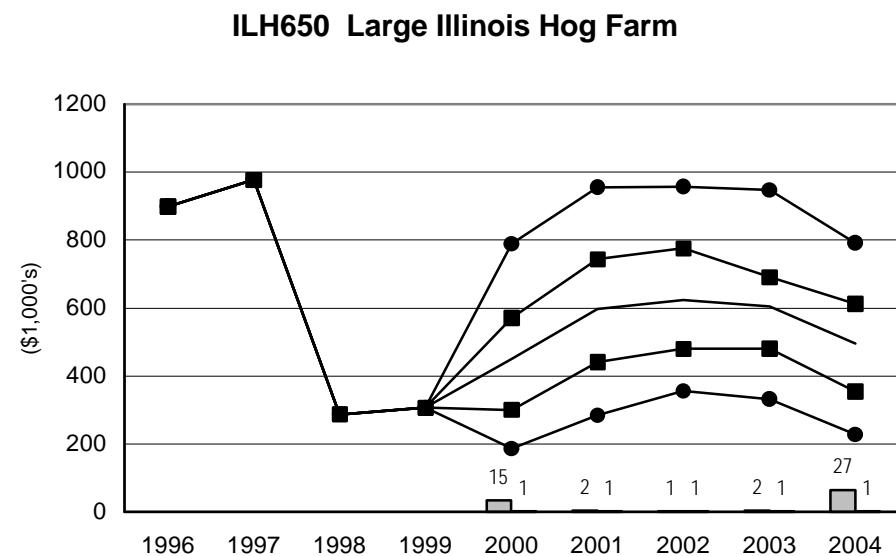
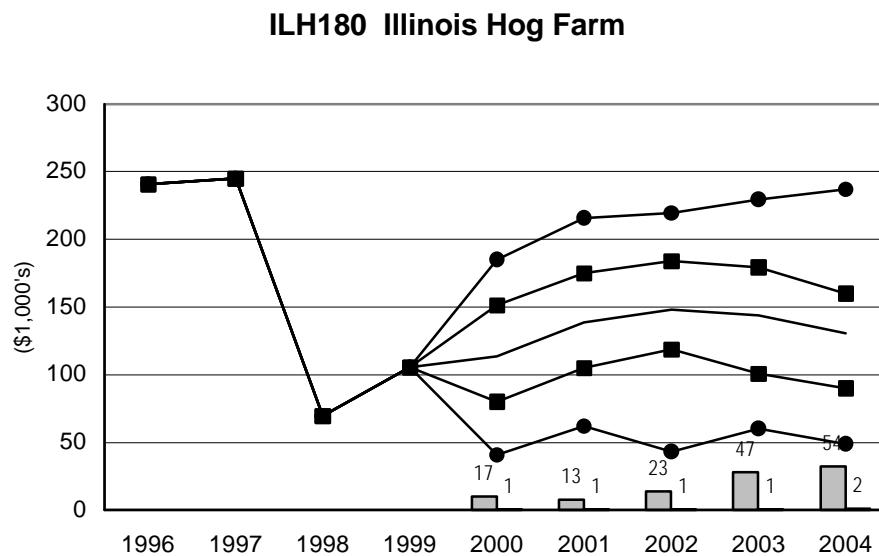
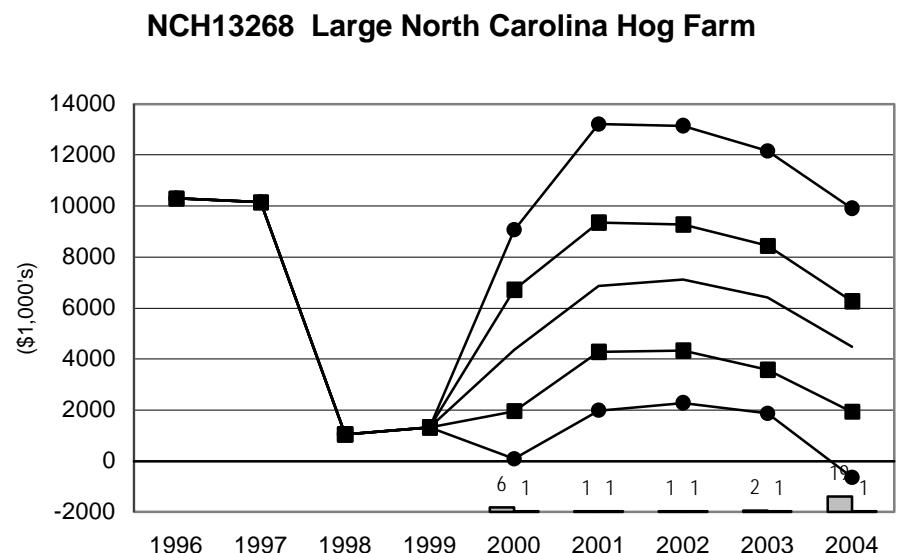
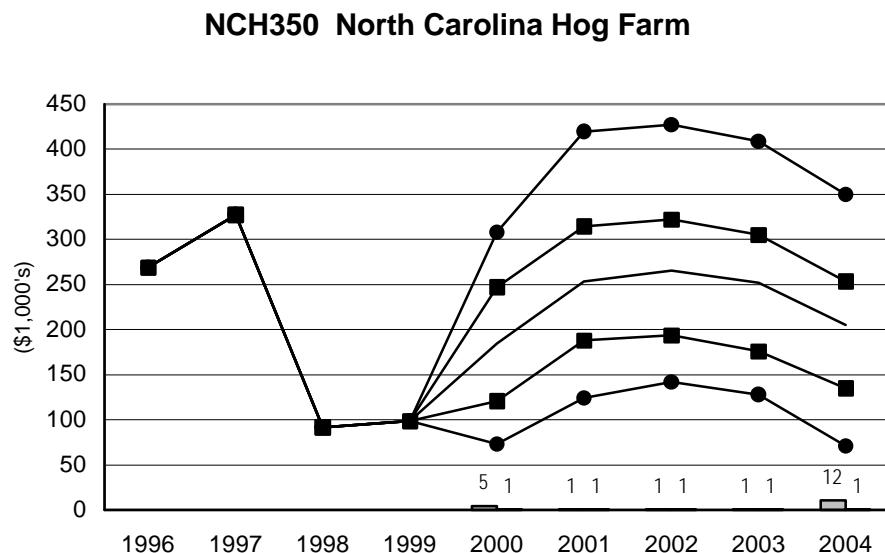


Figure 40. Net Cash Farm Income and Probabilities of a Cash Flow Deficit and Refinancing: Hog Farms

— Mean NCFY ■ 25 & 75 Percentile NCFY ● 5 & 95 Percentile NCFY ■ Prob. of Cash Flow Deficit □ Prob. of Refinancing



APPENDIX A:

CHARACTERISTICS OF

REPRESENTATIVE FARMS

1999 CHARACTERISTICS OF PANEL FARMS PRODUCING FEED GRAIN AND OILSEEDS

- IAG950** A 950-acre Northwestern Iowa (Webster County) moderate size grain farm that plants 475 acres of corn, and 475 acres of soybeans. The farm receives 60 percent of its receipts from corn.
- IAG2400** A 2,400-acre Northwestern Iowa (Webster County) large grain farm that plants 1,200 acres of corn, and 1,200 acres of soybeans. The farm generates 63 percent of its receipts from corn.
- NEG900** A 900-acre South Central Nebraska (York County) grain farm that plants 600 acres of corn, and 300 acres of soybeans. The farm generates 74 percent of its receipts from corn.
- NEG1300** A 1,300 South Central Nebraska (Hamilton County) grain farm that plants 871 acres of corn and 429 acres of soybeans. The farm generates about 75 percent of its receipts from corn.
- MOCG1700** A 1,700-acre Central Missouri (Carroll County) moderate size grain farm with 85 acres of wheat, 808 acres of corn, and 808 acres of soybeans. This farm is located in the Missouri river bottom and supplies feed to the livestock producers in the region at a premium to other areas of Missouri. Corn generates 52 percent of the farm's receipts with soybeans included.
- MOCG3300** A 3,300-acre Central Missouri (Carroll County) large grain farm with 100 acres of wheat, 1,319 acres of corn, and 1,881 acres of soybeans. This farm is located in the Missouri river bottom-and supplies feed to the livestock producers in the region at a premium to other areas of Missouri. The farm generates about 46 percent of its total revenue from corn and 49 percent from soybeans.
- MONG1400** A 1,400-acre Northern Missouri (Nodaway County) diversified grain farm with 600 acres of corn, 600 acres of soybeans, and 200 acres of hay. The farm also has 150 breeding cows and in 1996 sold its 80 breeding sows. The farm generates about 68 percent of its total revenue from corn and soybeans and 29 percent from cattle.

Appendix Table A1. Characteristics of Panel Farms Producing Feed Grains.

	IAG950	IAG2400	NEG900	NEG1300	MOCG1700	MOCG3300	MONG1400
County	Webster	Webster	York	Hamilton	Carroll	Carroll	Nodaway
Total Cropland	950	2,400	900	1,300	1,700	3,300	1,400
Acres Owned	240	380	180	260	850	1,600	700
Acres Leased	710	2,020	720	1,040	850	1,700	700
Pastureland							
Acres Owned	0	0	0	0	0	0	400
Acres Leased	0	0	0	0	0	0	400
Assets (\$1000)							
Total	1,170	2,056	1,218	1,411	2,462	4,186	2,134
Real Estate	866	1,304	703	792	1,659	3,035	1,609
Machinery	234	497	426	482	469	704	380
Other & Livestock	69	255	89	136	333	448	144
Debt/Asset Ratios							
Total	0.15	0.16	0.21	0.10	0.12	0.14	0.20
Intermediate	0.14	0.15	0.27	0.02	0.06	0.11	0.36
Long Run	0.16	0.16	0.17	0.16	0.15	0.15	0.15
Number of Livestock							
Beef Cows	0	0	0	0	0	0	200
1999 Gross Receipts (\$1,000)*							
Total	267.6	590.7	265.1	369.7	350.2	643.9	343.8
Cattle	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	101.2 29.40%
Corn	161.5 60.30%	372.5 63.10%	195.7 73.80%	275.7 74.60%	183.5 52.40%	293.6 45.60%	154.6 45.00%
Wheat	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	15.6 4.50%	28.6 4.40%	0.0 0.00%
Soybeans	99.8 37.30%	204.6 34.60%	66.5 25.10%	90.8 24.60%	142.0 40.60%	312.8 48.60%	80.0 23.30%
Hay	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.7 0.20%
Other Receipts	3.4 1.30%	7.6 1.30%	0.0 0.00%	0.0 0.00%	5.0 1.40%	0.0 0.00%	4.3 1.20%
1999 Planted Acres**							
Total	950.0	2,400.0	900.0	1,300.0	1,700.0	3,300.0	1,450.0
Corn	475.0 50.00%	1,200.0 50.00%	600.0 66.70%	871.0 67.00%	807.5 47.50%	1,319.0 40.00%	600.0 41.40%
Wheat	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	85.0 5.00%	100.0 3.00%	0.0 0.00%
Soybeans	475.0 50.00%	1,200.0 50.00%	300.0 33.30%	429.0 33.00%	807.5 47.50%	1,881.0 57.00%	600.0 41.40%
Hay	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	200.0 13.80%

*Receipts for 1999 are included to indicate the relative importance of each enterprise to the farm. Percents indicate the percentage of the total receipts accounted for by the livestock categories and the crops.

**Acreages for 1999 are included to indicate the relative importance of each enterprise to the farm. Total planted acreage may exceed total cropland available due to double cropping. Percents indicate the percentage of total planted acreage accounted for by the crop.

PANEL FARMS PRODUCING FEED GRAIN AND OILSEEDS (CONTINUED)

- TXNP1600** A 1,600-acre Northern High Plains of Texas (Moore County) moderate size, 100 percent irrigated, grain farm with 528 acres of wheat, 240 acres of sorghum, 800 acres of corn, and 32 acres fallow. The farm generates 83 percent of its total receipts from feed grains.
- TXNP6700** A 6,700-acre Northern High Plains of Texas (Moore County) large, 85 percent irrigated, grain farm with 1,675 acres of irrigated wheat (800 acres of the wheat is in the dryland corners of all pivot irrigated fields), 355 acres of irrigated sorghum, 3,350 acres of irrigated corn, and 670 acres fallow. The farm generates about 83 percent of its receipts from feed grains.
- TXBG2000** A 2,000 acre Texas Blacklands (Hill County) grain farm with 600 acres of corn, 750 acres of sorghum, 250 acres of wheat, 400 acres of cotton and 150 acres of pasture. About 61 percent of the receipts are from feedgrains. The farm has 20 cows and receives only 2 percent of its receipts from cattle.
- TXBG2500** A 2,500 acre Texas Blacklands (Falls County) grain farm with 750 acres of corn, 250 acres of sorghum, 250 acres of wheat, 625 acres of oats and 625 acres of pasture. The feedgrains account for 53 percent of the receipts on the farm. The 125 cows plus stocker steers account for 25 percent of receipts.
- TNG900** A 900-acre Western Tennessee (Henry County) grain and soybean farm with 400 acres of corn, 500 acres of soybeans, 200 acres of wheat, and 250 acres of hay. The farm generates about 67 percent of its receipts from corn and soybeans. Fifty head of beef cattle account for 9 percent of receipts.
- TNG2400** A 2,400-acre Western Tennessee (Henry County) grain and soybean farm with 1,200 acres of corn, 1,200 acres of soybeans, and 600 acres of wheat. The farm generates about 78 percent of its receipts from corn and soybeans.
- SCG1500** A 1,500-acre South Carolina (Clarendon County) moderate size grain farm with 750 acres of double cropped wheat and soybeans, 600 acres of corn, and 150 acres of full season soybeans. The farm generates about 69 percent of its total receipts from corn and soybeans. This farm enjoys high returns on double cropped acreage but timing will not allow more than 750 acres.
- SCG3500** A 3,500-acre South Carolina (Clarendon County) large grain farm with 2,020 acres of double crop wheat and soybeans, 350 acres of cotton, and 1,130 acres of corn. This farm enjoys high returns on double cropped acreage but timing is a limiting factor. The farm generates 57 percent of its receipts from corn and soybeans.

Appendix Table A2. Characteristics of Panel Farms Producing Feed Grains.

	TXNP1600	TXNP6700	TXBG2000	TXBG2500	TNG900	TNG2400	SCG1500	SCG3500
County	Moore	Moore	Hill	Falls	Henry	Henry	Clarendon	Clarendon
Total Cropland	1,600	6,700	2,000	1,250	900	2,400	1,500	3,500
Acres Owned	160	1,100	200	312	207	482	500	1,400
Acres Leased	1,440	5,600	1,800	938	693	1,918	1,000	2,100
Pastureland								
Acres Owned	0	0	15	312	57	0	300	1,400
Acres Leased	0	0	135	700	190	0	0	0
Assets (\$1000)								
Total	504	2,926	470	1,153	708	1,911	1,110	3,642
Real Estate	121	853	188	684	422	912	625	2,159
Machinery	307	1,512	270	164	249	673	417	1,012
Other & Livestock	75	561	12	305	37	326	67	470
Debt/Asset Ratios								
Total	0.14	0.13	0.20	0.11	0.21	0.16	0.22	0.18
Intermediate	0.13	0.13	0.22	0.04	0.30	0.16	0.30	0.22
Long Run	0.16	0.14	0.16	0.16	0.15	0.15	0.16	0.16
Number of Livestock								
Beef Cows	0	0	20	125	50	0	0	0
1999 Gross Receipts (\$1,000)*								
Total	399.3	1,587.4	357.2	401.2	213.6	539.9	419.2	1,032.8
Cattle	0.0 0.00%	0.0 0.00%	7.3 2.00%	101.9 25.40%	20.1 9.40%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Corn	286.3 71.70%	1,258.3 79.30%	101.3 28.40%	152.0 37.90%	89.4 41.90%	296.6 54.90%	166.4 39.70%	315.6 30.60%
Sorghum	43.6 10.90%	52.9 3.30%	115.1 32.20%	36.2 9.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Wheat	69.3 17.40%	177.9 11.20%	27.6 7.70%	39.3 9.80%	34.5 16.20%	115.4 21.40%	107.6 25.70%	230.1 22.30%
Soybeans	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	53.0 24.80%	125.2 23.20%	121.8 29.00%	273.2 26.50%
Cotton	0.0 0.00%	0.0 0.00%	105.8 29.60%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	165.9 16.10%
Hay	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	8.5 4.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Oats	0.0 0.00%	0.0 0.00%	0.0 0.00%	23.2 5.80%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Other Receipts	0.0 0.00%	16.3 1.00%	0.0 0.00%	48.7 12.10%	7.0 3.30%	0.0 0.00%	20.3 4.90%	40.9 4.00%
1999 Planted Acres**								
Total	1,600.0	6,030.0	2,150.0	2,500.0	1,350.0	3,000.0	2,250.0	5,169.5
Corn	800.0 50.00%	3,350.0 55.60%	600.0 27.90%	750.0 30.00%	400.0 29.60%	1,200.0 40.00%	600.0 26.70%	1,130.5 21.90%
Sorghum	240.0 15.00%	335.0 5.60%	750.0 34.90%	250.0 10.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Wheat	528.0 33.00%	1,675.0 27.80%	250.0 11.60%	250.0 10.00%	200.0 14.80%	600.0 20.00%	750.0 33.30%	1,669.5 32.30%
Soybeans	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	500.0 37.00%	1,200.0 40.00%	900.0 40.00%	2,019.5 39.10%
Cotton	0.0 0.00%	0.0 0.00%	400.0 18.60%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	350.0 6.80%
Fallow	32.0 2.00%	670.0 11.10%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Hay	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	250.0 18.50%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Oats	0.0 0.00%	0.0 0.00%	0.0 0.00%	625.0 25.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Improved Pasture	0.0 0.00%	0.0 0.00%	150.0 7.00%	625.0 25.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%

*Receipts for 1999 are included to indicate the relative importance of each enterprise to the farm. Percents indicate the percentage of the total receipts accounted for by the livestock categories and the crops.

**Acreages for 1999 are included to indicate the relative importance of each enterprise to the farm. Total planted acreage may exceed total cropland available due to double cropping. Percents indicate the percentage of total planted acreage accounted for by the crop.

1999 CHARACTERISTICS OF PANEL FARMS PRODUCING WHEAT

- WAW1500** A 1,500-acre Southeastern Washington (Whitman County) moderate size grain farm that plants 900 acres of wheat, 300 acres of barley, and 300 acres of dry peas. Disease problems require a rotation that includes a minimum amount of barley and peas to maintain wheat yields. The farm generates 69 percent of its receipts from wheat .
- WAW4250** A 4,250-acre Southeastern Washington (Whitman County) large size grain farm that is harvesting 2,763 acres of wheat, 200 acres of barley, and 1,288 acres of peas. Disease problems require a rotation that includes a minimum amount of barley and peas in order to maintain wheat yields. Winter and spring wheat account for 72 percent of receipts.
- NDW1760** A 1,760-acre South Central North Dakota (Barnes County) moderate size grain farm that has 704 acres of wheat, 176 acres of barley, 176 acres of corn, 352 acres of soybeans, and 352 acres of sunflowers. The farm receives about 51 percent of receipts from small grains of wheat and barley.
- NDW4850** A 4,850-acre South Central North Dakota (Barnes County) large grain farm that plants 2,585 acres of wheat, 470 acres of barley, 705 acres of soybeans, 940 acres of sunflowers, and 150 acres of CRP. Wheat accounts for about 55 percent of the farms total gross receipts with barley contributing another 12 percent.
- KSSW1385** A 1,385-acre South Central Kansas (Sumner County) moderate size grain farm that plants 928 acres of wheat, 138 acres of soybeans, and 319 acres of grain-sorghum. The farm generates about 69 percent of its receipts from wheat.
- KSSW3180** A 3,180-acre South Central Kansas (Sumner County) large grain farm harvesting 2,258 acres of wheat, 652 acres of grain sorghum, 56 acres of corn, 87 acres of soybeans, and 127 acres of hay. The farm also has 67 breeding cows. The farm generates 69 percent of its receipts from wheat.
- KSNW2325** A 2,325-acre North Western Kansas (Thomas County) moderate size grain farm that plants 775 acres of wheat, 155 acres of grain sorghum, 620 acres of corn, and has 775 acres of fallow. The farm generates 41 percent of its receipts from wheat.
- KSNW4300** A 4,300-acre North Western Kansas (Thomas County) large grain farm harvesting 1,948 acres of wheat, 465 acres of sorghum, 549 acres of corn, 262 acres of sunflowers, 75 acres of hay, and 1,001 acres of fallow. The farm also has 100 breeding cows. The farm generates about 47 percent of its receipts from wheat.
- COW2700** A 2,700-acre Northeast Colorado (Washington County) moderate size grain farm that plants 1,127 acres of wheat, 608 acres of millet, and 446 acres of corn, and will leave 519 acres fallow. The farm generates 49 percent of its receipts from wheat.
- COW5440** A 5,440-acre Northeast Colorado (Washington County) large size grain farm that plants 1,900 acres of wheat, 500 acres of corn, 1,300 acres of millet, 640 acres of CRP, and 1,100 acres in fallow. Wheat produces 58 percent of the farms gross revenue.

Appendix Table A3. Characteristics of Panel Farms Producing Wheat.

	WAW1500	WAW4250	NDW1760	NDW4850	KSSW1385	KSSW3180	KSNW2325	KSNW4300	COW2700	COW5440
County	Whitman	Whitman	Barnes	Barnes	Sumner	Sumner	Thomas	Thomas	Washington	Washington
Total Cropland	1,500	4,250	1,760	4,850	1,385	3,180	2,325	4,300	2,700	5,440
Acres Owned	750	2,125	176	1,701	485	330	930	1,147	837	3,020
Acres Leased	750	2,125	1,584	3,149	900	2,850	1,395	3,153	1,863	2,420
Pastureland										
Acres Owned	0	0	0	0	0	25	500	500	0	0
Acres Leased	0	0	0	0	0	775	500	500	0	0
Assets (\$1000)										
Total	1,612	4,424	478	2,572	736	1,435	1,220	1,720	799	2,352
Real Estate	1,028	2,968	136	957	426	434	730	902	456	1,539
Machinery	522	1,195	253	1,116	222	580	414	534	217	635
Other & Livestock	62	261	89	499	87	420	76	284	126	178
Debt/Asset Ratios										
Total	0.20	0.18	0.13	0.15	0.18	0.09	0.20	0.12	0.14	0.15
Intermediate	0.28	0.26	0.12	0.15	0.23	0.05	0.27	0.07	0.13	0.16
Long Run	0.16	0.14	0.16	0.17	0.16	0.18	0.15	0.15	0.15	0.15
Number of Livestock										
Beef Cows	0	0	0	0	0	67	0	100	0	0
1999 Gross Receipts (\$1,000)*										
Total	256.4	685.6	238.4	678.8	154.3	330.8	247.5	515.4	268.1	483.1
Cattle	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	28.8 8.70%	5.1 2.10%	37.6 7.30%	0.0 0.00%	0.0 0.00%
Wheat	176.4 68.80%	492.1 71.80%	95.1 39.90%	371.2 54.70%	106.0 68.70%	228.9 69.20%	101.3 40.90%	244.1 47.40%	130.7 48.80%	281.9 58.40%
Sorghum	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	36.8 23.80%	50.5 15.30%	25.7 10.40%	59.4 11.50%	0.0 0.00%	0.0 0.00%
Barley	40.6 15.80%	31.3 4.60%	27.2 11.40%	84.1 12.40%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Corn	0.0 0.00%	0.0 0.00%	30.7 12.90%	0.0 0.00%	0.0 0.00%	4.9 1.50%	97.5 39.40%	151.2 29.30%	66.5 24.80%	66.7 13.80%
Soybeans	0.0 0.00%	0.0 0.00%	65.1 27.30%	153.2 22.60%	11.3 7.40%	6.7 2.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Dry Peas	39.4 15.40%	162.2 23.70%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Sunflowers	0.0 0.00%	0.0 0.00%	18.0 7.50%	56.4 8.30%	0.0 0.00%	0.0 0.00%	0.0 0.00%	20.8 4.00%	0.0 0.00%	0.0 0.00%
Millet	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	66.6 24.90%	104.7 21.70%
Hay	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	10.8 3.30%	0.0 0.00%	0.1 0.00%	0.0 0.00%	0.0 0.00%
Other Receipts	0.0 0.00%	0.0 0.00%	0.0 0.00%	9.3 1.40%	0.0 0.00%	0.0 0.00%	18.0 7.30%	1.5 0.30%	4.3 1.60%	29.8 6.20%
1999 Planted Acres**										
Total	1,500.0	4,250.0	1,760.0	4,850.0	1,385.0	3,180.0	2,325.0	4,300.0	2,700.0	5,440.0
Wheat	900.0 60.00%	2,762.5 65.00%	704.0 40.00%	2,585.0 53.30%	928.0 67.00%	2,258.0 71.00%	775.0 33.30%	1,948.0 45.30%	1,127.0 41.70%	1,900.0 34.90%
Sorghum	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	319.0 23.00%	652.0 20.50%	155.0 6.70%	465.0 10.80%	0.0 0.00%	0.0 0.00%
Barley	300.0 20.00%	200.0 4.70%	176.0 10.00%	470.0 9.70%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Corn	0.0 0.00%	0.0 0.00%	176.0 10.00%	0.0 0.00%	0.0 0.00%	56.0 1.80%	620.0 26.70%	549.0 12.80%	446.0 16.50%	500.0 9.20%
Soybeans	0.0 0.00%	0.0 0.00%	352.0 20.00%	705.0 14.50%	138.0 10.00%	87.0 2.70%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Dry Peas	300.0 20.00%	1,287.5 30.30%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Sunflowers	0.0 0.00%	0.0 0.00%	352.0 20.00%	940.0 19.40%	0.0 0.00%	0.0 0.00%	0.0 0.00%	262.0 6.10%	0.0 0.00%	0.0 0.00%
Millet	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	608.0 22.50%	1,300.0 23.90%
Hay	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	127.0 4.00%	0.0 0.00%	75.0 1.70%	0.0 0.00%	0.0 0.00%
Fallow	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	775.0 33.30%	1,001.0 23.30%	519.0 19.20%	1,100.0 20.20%
CRP	0.0 0.00%	0.0 0.00%	0.0 0.00%	150.0 3.10%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	640.0 11.80%

*Receipts for 1999 are included to indicate the relative importance of each enterprise to the farm. Percents indicate the percentage of the total receipts accounted for by the livestock categories and the crops.

**Acreages for 1999 are included to indicate the relative importance of each enterprise to the farm. Total planted acreage may exceed total cropland available due to double cropping. Percents indicate the percentage of total planted acreage accounted for by the crop.

1999 CHARACTERISTICS OF PANEL FARMS PRODUCING COTTON

- CAC2000** A 2,000-acre Central San Joaquin Valley California (Kings County) moderate size cotton farm that plants 600 acres of cotton, 600 acres of wheat, 400 acres of corn, and 600 acres of hay. The farm generates 54 percent of its gross income from cotton.
- CAC6000** A 6,000-acre Central San Joaquin Valley California (Kings County) large cotton farm harvesting 2,400 acres of cotton, 2,100 acres of vegetables, 600 acres of wheat, 300 acres of corn, and 600 acres of hay. Vegetables on this farm vary from year to year depending on the price of the particular vegetable, however, the returns to this 1,500 acres remain relatively stable over time. Cotton generates about 40 percent of this farm's receipts.
- TXSP1682** A 1,682-acre Texas Southern High Plains (Dawson County) moderate size cotton farm plants 1,185 acres of cotton (866 dryland and 319 irrigated), 196 acres of peanuts, and has 183 acres in CRP. This farm is just now starting to adopt the irrigation practices of its larger counterpart. The farm generates 58 percent of its receipts from cotton.
- TXSP3697** A 3,697-acre Texas Southern High Plains (Dawson County) large cotton farm plants 2,665 acres of cotton (2,095 dryland and 570 irrigated), 285 acres of peanuts, and has 214 acres in CRP. Cotton generates 72 percent of this farm's receipts.
- TXRP2500** A 2,500-acre Texas Rolling Plains (Jones County) cotton farm that plants 1,240 acres of cotton, and 825 acres of wheat. About 65 percent of this farm's receipts are derived from cotton.
- TXBC1400** A 1,400-acre Texas Blacklands (Williamson County) moderate size cotton and grain farm has 350 acres of cotton, 400 acres of sorghum, 550 acres of corn, and 100 acres of wheat. This farm also has 50 breeding cows which are pastured on rented land that cannot be cropped. Cotton generates 44 percent of the farms receipts.
- TXCB1700** A 1,700-acre Texas Coastal Bend (San Patricio County) cotton farm has 765 acres of cotton and 935 acres of grain sorghum. Severe disease problems force this farm to plant at a minimum 50 percent of the land to grain sorghum. About 74 percent of the receipts are cotton receipts.
- TNC1675** A 1,675-acre Southwest Tennessee (Fayette County) cotton farm has 838 acres of cotton, 670 acres of soybeans, and 168 acres of corn. The farm generates about 74 percent of its cash receipts from cotton.
- TNC3800** A 3,800-acre Southwest Tennessee (Haywood County) cotton farm has 2,508 acres of cotton, 760 acres of soybeans, 300 acres of wheat, and 532 acres of corn. The farm generates about 79 percent of its cash receipts from cotton.

Appendix Table A4. Characteristics of Panel Farms Producing Cotton.

	CAC2000	CAC6000	TXSP1682	TXSP3697	TXRP2500	TXBC1400	TXCB1700	TNC1675	TNC3800
County	Kings	Kings	Dawson	Dawson	Jones	Williamson	San Patricio	Fayette	Haywood
Total Cropland	2,000	6,000	1,682	3,697	2,500	1,400	1,700	1,675	3,800
Acres Owned	1,000	4,800	606	1,627	400	150	300	225	1,520
Acres Leased	1,000	1,200	1,076	2,070	2,100	1,250	1,400	1,450	2,280
Pastureland									
Acres Owned	0	0	0	0	0	30	0	0	0
Acres Leased	0	0	0	0	500	210	0	0	0
Assets (\$1000)									
Total	5,014	14,294	742	1,828	350	664	556	896	4,584
Real Estate	3,638	12,880	365	781	168	329	295	586	2,879
Machinery	505	9	377	758	176	243	261	310	1,490
Other & Livestock	872	1,406	0	289	7	92	0	0	214
Debt/Asset Ratios									
Total	0.13	0.14	0.18	0.17	0.27	0.11	0.26	0.23	0.18
Intermediate	0.06	0.00	0.22	0.18	0.37	0.07	0.37	0.37	0.21
Long Run	0.16	0.15	0.14	0.14	0.16	0.16	0.16	0.16	0.16
Number of Livestock									
Beef Cows	0	0	0	0	0	50	0	0	0
1999 Gross Receipts (\$1,000)*									
Total	1,690.3	8,027.0	499.2	980.8	203.1	294.5	564.2	377.3	1,110.2
Cattle	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	17.1 5.80%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Cotton	914.1 54.10%	3,232.8 40.30%	287.5 57.60%	708.6 72.20%	132.3 65.10%	130.6 44.40%	417.5 74.00%	280.4 74.30%	881.0 79.40%
Sorghum	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	54.9 18.60%	132.1 23.40%	0.0 0.00%	0.0 0.00%
Wheat	200.4 11.90%	296.9 3.70%	0.0 0.00%	0.0 0.00%	46.0 22.60%	7.1 2.40%	0.0 0.00%	0.0 0.00%	46.9 4.20%
Soybeans	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	59.1 15.70%	65.3 5.90%
Corn	207.4 12.30%	92.8 1.20%	0.0 0.00%	0.0 0.00%	0.0 0.00%	79.8 27.10%	0.0 0.00%	36.4 9.60%	108.2 9.70%
Hay	368.5 21.80%	430.5 5.40%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Quota Peanuts	0.0 0.00%	0.0 0.00%	76.9 15.40%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Additional Peanuts	0.0 0.00%	0.0 0.00%	89.5 17.90%	192.5 19.60%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Other Receipts	0.0 0.00%	3,974.0 49.50%	39.6 7.90%	75.3 7.70%	24.8 12.20%	5.0 1.70%	14.6 2.60%	0.0 0.00%	7.0 0.60%
1999 Planted Acres**									
Total	2,200.0	6,000.0	1,564.0	3,164.0	2,065.0	1,400.0	1,700.0	1,675.0	4,100.0
Cotton	600.0 27.30%	2,400.0 40.00%	1,185.0 75.80%	2,665.0 84.20%	1,240.0 60.00%	350.0 25.00%	765.0 45.00%	837.5 50.00%	2,508.0 61.20%
Sorghum	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	400.0 28.60%	935.0 55.00%	0.0 0.00%	0.0 0.00%
Wheat	600.0 27.30%	600.0 10.00%	0.0 0.00%	0.0 0.00%	825.0 40.00%	100.0 7.10%	0.0 0.00%	0.0 0.00%	300.0 7.30%
Soybeans	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	670.0 40.00%	760.0 18.50%
Corn	400.0 18.20%	300.0 5.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	550.0 39.30%	0.0 0.00%	167.5 10.00%	532.0 13.00%
Hay	600.0 27.30%	600.0 10.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Quota Peanuts	0.0 0.00%	0.0 0.00%	65.0 4.20%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Additional Peanuts	0.0 0.00%	0.0 0.00%	131.0 8.40%	285.0 9.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Vegetables	0.0 0.00%	2,100.0 35.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%
CRP	0.0 0.00%	0.0 0.00%	183.0 11.70%	214.0 6.80%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%

*Receipts for 1999 are included to indicate the relative importance of each enterprise to the farm. Percents indicate the percentage of the total receipts accounted for by the livestock categories and the crops.

**Acreages for 1999 are included to indicate the relative importance of each enterprise to the farm. Total planted acreage may exceed total cropland available due to double cropping. Percents indicate the percentage of total planted acreage accounted for by the crop.

1999 CHARACTERISTICS OF PANEL FARMS PRODUCING RICE

- CAR424** A 424-acre Sacramento Valley California (Sutter and Yuba Counties) moderate size rice farm that plants 400 acres of rice. The farm generates 94 percent of its gross income from rice.
- CAR1365** A 1,365-acre Sacramento Valley California (Sutter and Yuba Counties) large rice farm that plants 1,265 acres of rice. The farm generates about 98 percent of its gross income from rice.
- TXR2118** A 2,118-acre West of Houston, Texas (Wharton County) moderate size rice farm that harvests 600 acres of first crop rice, and 510 acres of ratoon rice. The farm receives 98 percent of its gross receipts from rice.
- TXR3750** A 3,750-acre West of Houston, Texas (Wharton County) large rice farm that harvests 1,500 acres of first-crop rice, 1,275 acres of ratoon rice, and 200 acres of hay. The farm also has 200 breeding cows. About 95 percent of the farm's gross receipts are from rice.
- MOR1900** A 1,900-acre Southeastern Missouri (Butler County) moderate size rice farm with 616 acres of rice, 650 acres of soybeans, and 633 acres of corn. Rice accounts for 50 percent of this farm's receipts.
- MOR4000** A 4,000-acre Southeastern Missouri (Butler County) large rice farm with 1,710 acres of rice, 800 acre soybeans, 1,250 acres of corn, and 240 acres of cotton. About 55 percent of this farm's receipts are generated from rice.
- ARR2645** A 2,645-acre Arkansas (Arkansas County) moderate size rice farm with 175 acres of medium grain rice, 512 acres of long grain rice, 958 acres of soybeans, 230 acres of corn, and 450 acres of wheat. About 49 percent of the farm's receipts come from rice.
- ARR3400** A 3,400-acre Arkansas (Arkansas County) moderate size rice farm with 325 acres of medium grain rice, 975 acres of long grain rice, 1,700 acres of soybeans, and 500 acres of wheat. About 60 percent of the farm's receipts come from rice.
- LAR1100** A 1,100-acre Louisiana (Jefferson Davis, Acadia, and Vermilion Parishes) moderate size rice farm harvesting 189 acres of medium grain rice, 351 acres of long grain rice, 362 acres of soybeans, and 198 acres of fallow. About 85 percent of this farm's receipts are generated by rice.

Appendix Table A5. Characteristics of Panel Farms Producing Rice.

	CAR424	CAR1365	TXR2118	TXR3750	MOR1900	MOR4000	ARR2645	ARR3400	LAR1100
County	Sutter	Sutter	Wharton	Wharton	Butler	Butler	Arkansas	Arkansas	Acadia
Total Cropland	424	1,365	2,118	3,750	1,900	4,000	2,645	3,400	1,100
Acres Owned	212	515	318	1,688	380	2,000	815	1,020	50
Acres Leased	212	850	1,800	2,062	1,520	2,000	1,830	2,380	1,050
Pastureland									
Acres Owned	0	0	0	200	0	0	0	0	0
Assets (\$1000)									
Total	826	2,190	747	2,476	1,648	6,568	2,291	3,827	394
Real Estate	495	1,476	218	1,260	911	4,313	1,167	1,946	83
Machinery	287	569	296	702	738	1,973	628	1,120	275
Other & Livestock	44	145	233	515	0	282	496	760	37
Debt/Asset Ratios									
Total	0.21	0.14	0.08	0.14	0.23	0.23	0.13	0.14	0.26
Intermediate	0.27	0.08	0.05	0.12	0.33	0.37	0.10	0.13	0.29
Long Run	0.16	0.17	0.16	0.15	0.16	0.16	0.15	0.15	0.16
Number of Livestock									
Beef Cows	0	0	0	200	0	0	0	0	0
1999 Gross Receipts (\$1,000)*									
Total	299.7	916.2	462.1	1,311.1	565.1	1,636.8	702.6	1,018.8	286.0
Cattle	0.0 0.00%	0.0 0.00%	0.0 0.00%	48.5 3.70%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Medium Grain Rice	281.4 93.90%	896.6 97.90%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	123.8 17.60%	174.4 17.10%	85.6 29.90%
Long Grain Rice	0.0 0.00%	0.0 0.00%	455.1 98.50%	1,242.7 94.80%	279.7 49.50%	898.5 54.90%	218.9 31.20%	441.2 43.30%	158.9 55.60%
Soybeans	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	92.5 16.40%	141.9 8.70%	188.7 26.90%	283.7 27.80%	37.3 13.00%
Corn	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	190.2 33.70%	445.8 27.20%	59.0 8.40%	0.0 0.00%	0.0 0.00%
Wheat	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	103.1 14.70%	108.5 10.70%	0.0 0.00%
Cotton	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	147.9 9.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Other Receipts	18.3 6.10%	19.6 2.10%	7.0 1.50%	20.0 1.50%	0.0 0.00%	0.0 0.00%	4.8 0.70%	1.2 0.10%	3.0 1.00%
1999 Planted Acres**									
Total	400.0	1,265.0	1,110.2	2,975.0	1,899.0	4,000.0	2,325.0	3,500.0	1,100.0
Medium Grain Rice	400.0 100.00%	1,265.0 100.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	175.0 7.50%	325.0 9.30%	189.1 17.20%
Long Grain Rice	0.0 0.00%	0.0 0.00%	1,110.2 100.00%	2,775.0 93.30%	616.0 32.40%	1,710.0 42.80%	512.0 22.00%	975.0 27.90%	350.9 31.90%
Soybeans	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	650.0 34.20%	800.0 20.00%	958.0 41.20%	1,700.0 48.60%	361.9 32.90%
Corn	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	633.0 33.30%	1,250.0 31.30%	230.0 9.90%	0.0 0.00%	0.0 0.00%
Wheat	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	450.0 19.40%	500.0 14.30%	0.0 0.00%
Cotton	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	240.0 6.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Hay	0.0 0.00%	0.0 0.00%	0.0 0.00%	200.0 6.70%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Fallow	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	198.1 18.00%

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**Acreages for 1999 are included to indicate the relative importance of each enterprise to the farm. Total planted acreage may exceed total cropland available due to double cropping. Percents indicate the percentage of total planted acreage accounted for by the crop.

1999 CHARACTERISTICS OF PANEL FARMS PRODUCING MILK

- CAD1710** A 1,710-cow Central California (Tulare County) large dairy farm that produces 22,800 pounds of milk per cow. The farm plants 200 acres of hay, and 325 acres of silage for which it employs custom harvesting. Milk receipts generate 94 percent of all receipts.
- NMD2000** A 2,000-cow Southern New Mexico (Dona Anna and Chaves County) large dairy farm that averages 20,000 pounds per cow. Rather than plant any crops, this farm purchased all commodities necessary for blending its own total mixed ration. Milk sales account for 93 percent of cash receipts.
- WAD185** A 185-cow Northern Washington (Whatcom County) moderate size dairy farm that produces 23,900 pounds of milk per cow. The farm plants 115 acres of silage and generates 95 percent of its receipts from milk.
- WAD900** A 900-cow Northern Washington (Whatcom County) large dairy farm that produces 24,400 pounds of milk per cow. The farm plants 605 acres of silage and generates 95 percent of its receipts from milk.
- IDD750** A 750-cow Idaho (Twin Falls County) moderate size dairy farm that produces 22,300 pounds of milk per cow. The farm plants no crops. Milk is 89 percent of the farms gross income.
- IDD2100** A 2,100-cow Idaho (Twin Falls County) large dairy farm that produces 22,800 pounds of milk per cow. The farm plants 160 acres of hay and 400 acres of silage. Milk is 92 percent of the farms gross income.
- TXCD400** A 400-cow Central Texas (Erath County) moderate size dairy farm that produces 18,500 pounds of milk per cow. The farm plants 330 acres of hay. Milk is 90 percent of the farms gross income.
- TXCD825** A 825-cow Central Texas (Erath County) large dairy farm that produces 21,000 pounds of milk per cow. The farm plants 430 acres for silage, 20 acres of haylage, and milk accounts for 93 percent of receipts.
- TXED210** A 210-cow East Texas (Hopkins County) moderate size dairy farm that produces 16,700 pounds of milk per cow. The farm plants 195 acres of hay and generates 87 percent of its receipts from milk.
- TXED650** A 650-cow East Texas (Lamar County) large dairy farm that produces 18,000 pounds of milk per cow. The farm plants 140 acres of hay and 360 acres of silage. The farm generates 91 percent of its receipts from milk.

Appendix Table A6. Characteristics of Panel Farms Producing Milk.

	CAD1710	NMD2000	WAD185	WAD900	IDD750	IDD2100	TXCD400	TXCD825	TXED210	TXED650
County	Tulare	Dona Ana	Whatcom	Whatcom	Twin Falls	Twin Falls	Erath	Erath	Hopkins	Lamar
Total Cropland	800	300	120	605	120	620	165	460	250	500
Acres Owned	800	300	60	300	120	620	165	460	200	500
Acres Leased	0	0	60	305	0	0	0	0	50	0
Pastureland										
Acres Owned	0	0	0	0	0	0	0	0	25	300
Assets (\$1000)										
Total	11,609	5,739	1,512	5,431	3,773	12,529	1,557	4,920	1,075	2,926
Real Estate	6,356	2,707	574	2,490	1,392	4,360	829	1,636	398	1,007
Machinery	346	331	108	633	318	531	162	388	123	411
Other & Livestock	4,906	2,701	830	2,308	2,062	7,637	567	2,896	554	1,508
Debt/Asset Ratios										
Total	0.13	0.14	0.10	0.12	0.06	0.06	0.37	0.09	0.12	0.12
Intermediate	0.00	0.03	0.02	0.02	0.00	0.00	0.50	0.00	0.04	0.06
Long Run	0.24	0.26	0.24	0.24	0.17	0.17	0.26	0.26	0.24	0.24
1999 Gross Receipts (\$1,000)*										
Total	5,527.4	5,347.5	653.2	3,186.0	2,258.4	6,287.6	991.4	3,335.2	517.1	1,632.3
Milk	5,200.8	4,977.9	619.0	3,029.1	2,015.6	5,772.0	892.8	3,106.1	449.4	1,478.0
	94.10%	93.10%	94.80%	95.10%	89.20%	91.80%	90.10%	93.10%	86.90%	90.50%
Dairy Cattle	326.6	369.6	34.1	156.9	242.8	515.7	62.4	229.1	67.7	154.3
	5.90%	6.90%	5.20%	4.90%	10.80%	8.20%	6.30%	6.90%	13.10%	9.50%
Hay	0.0	0.0	0.0	0.0	0.0	0.0	36.2	0.0	0.0	0.0
	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.70%	0.00%	0.00%	0.00%
1999 Planted Acres**										
Total	525.0	0.0	115.0	605.0	0.0	560.0	330.0	450.0	195.0	500.0
Hay	200.0	0.0	0.0	0.0	0.0	160.0	330.0	0.0	195.0	140.0
	38.10%	0.00%	0.00%	0.00%	0.00%	28.60%	100.00%	0.00%	100.00%	28.00%
Silage	325.0	0.0	115.0	605.0	0.0	400.0	0.0	430.0	0.0	360.0
	61.90%	0.00%	100.00%	100.00%	0.00%	71.40%	0.00%	95.60%	0.00%	72.00%
Haylage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0
	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	4.40%	0.00%	0.00%

*Receipts for 1999 are included to indicate the relative importance of each enterprise to the farm. Percents indicate the percentage of the total receipts accounted for by the livestock categories and the crops.

**Acreages for 1999 are included to indicate the relative importance of each enterprise to the farm. Total planted acreage may exceed total cropland available due to double cropping. Percents indicate the percentage of total planted acreage accounted for by the crop.

1999 CHARACTERISTICS OF PANEL FARM PRODUCING MILK (CONTINUED)

- WID70** A 70-cow Eastern Wisconsin (Winnebago County) moderate size dairy farm that produces 22,800 pounds of milk per cow. The farm plants 37 acres of hay, 55 acres of corn, 24 acres of silage, and 89 acres of haylage. Milk makes up 91 percent of this farm's receipts.
- WID600** A 600-cow Eastern Wisconsin (Winnebago County) large dairy farm that produces 20,700 pounds of milk per cow. The farm plants 222 acres of hay, 350 acres of silage, and 428 acres of haylage. Milk accounts for 94 percent of the farm's receipts.
- MIED200** A 200-cow Michigan (Sanilac County) moderate size dairy farm that produces 23,000 pounds of milk per cow. The farm plants 220 acres of corn, 50 acres of wheat, and 170 acres of silage. Milk accounts for 92 percent of the farm's receipts.
- MICD140** A 140-cow Michigan (Isabella County) moderate size dairy farm that produces 21,200 pounds of milk per cow. The farm plants 175 acres of corn, 70 acres of hay, 65 acres of silage, and 110 acres of haylage. Milk accounts for 86 percent of the farm's receipts.
- NYWD800** A 800-cow Western New York (Wyoming County) moderate size dairy farm that produces 22,700 pounds of milk per cow. The farm plants 575 acres of silage and 625 acres of haylage. About 94 percent of the farm's receipts come from milk.
- NYWD1200** A 1,200-cow Western New York (Wyoming County) large dairy farm that produces 21,600 pounds of milk per cow. The farm plants 825 acres of silage and 700 acres of haylage. Milk accounts for 95 percent of the farm's receipts.
- NYCD110** A 110-cow Central New York (Cayuga County) moderate size dairy farm that produces 23,000 pounds of milk per cow. The farm plants 80 acres of hay, 64 acres of corn, and 131 acres of silage. Milk accounts for 92 percent of the farms receipts.
- NYCD400** A 400-cow Central New York (Cayuga County) large dairy farm that produces 22,400 pounds of milk per cow. The farm plants 110 acres of hay, 260 acres of silage, and 470 acres of haylage. The farm generates 94 percent of its receipts from milk.
- VTD134** A 134-cow Vermont (Washington County) moderate size dairy farm that averages 19,000 pounds of milk per cow. The farm plants 46 acres of hay, 94 acres of silage, and 81 acres of haylage. Milk accounts for 91 percent of the receipts.
- VTD350** A 350-cow Vermont (Washington County) large dairy farm that averages 23,100 pounds of milk per cow. The farm plants 40 acres of hay, 350 acres of silage, and 310 acres of haylage. Milk accounts for 95 percent of the farm's receipts.

Appendix Table A7. Characteristics of Panel Farms Producing Milk.

	WID70	WID600	MIED200	MICD140	NYWD800	NYWD1200	NYCD110	NYCD400	VTD134	VTD350
County	Winnebago	Winnebago	Sanilac	Isabella	Wyoming	Wyoming	Cayuga	Cayuga	Washington	Washington
Total Cropland	245	1,000	590	510	1,200	1,800	296	850	220	700
Acres Owned	200	400	363	300	900	1,200	250	650	100	525
Acres Leased	45	600	227	210	300	600	46	200	120	175
Pastureland										
Acres Owned	0	0	50	25	225	300	20	400	120	50
Acres Leased	0	0	0	0	0	0	0	0	0	50
Assets (\$1000)										
Total	726	2,903	1,873	1,465	4,923	7,218	865	2,969	713	2,400
Real Estate	416	1,538	929	742	2,095	2,695	377	1,238	364	1,445
Machinery	140	336	324	281	669	913	90	380	170	395
Other & Livestock	169	1,028	619	442	2,159	3,610	398	1,351	179	560
Debt/Asset Ratios										
Total	0.20	0.15	0.13	0.14	0.13	0.13	0.13	0.11	0.20	0.22
Intermediate	0.16	0.04	0.03	0.03	0.05	0.06	0.04	0.02	0.12	0.06
Long Run	0.24	0.25	0.23	0.25	0.24	0.24	0.24	0.24	0.27	0.33
1999 Gross Receipts (\$1,000)*										
Total	249.1	1,853.5	631.2	427.5	2,696.6	4,088.5	364.6	1,347.7	409.9	1,239.5
Milk	227.5 91.30%	1,749.9 94.40%	583.2 92.40%	367.2 85.90%	2,542.4 94.30%	3,888.5 95.10%	334.8 91.80%	1,270.6 94.30%	371.5 90.60%	1,180.1 95.20%
Dairy Cattle	20.8 8.40%	103.6 5.60%	41.6 6.60%	50.1 11.70%	154.2 5.70%	200.0 4.90%	29.8 8.20%	77.1 5.70%	37.0 9.00%	59.4 4.80%
Corn	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Soybeans	0.8 0.30%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Wheat	0.0 0.00%	0.0 0.00%	6.5 1.00%	10.2 2.40%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Other Receipts	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	1.5 0.40%	0.0 0.00%
1999 Planted Acres**										
Total	245.0	1,000.0	440.0	490.0	1,200.0	1,525.0	275.0	840.0	220.2	700.0
Hay	37.0 15.10%	222.0 22.20%	0.0 0.00%	70.0 14.30%	0.0 0.00%	0.0 0.00%	80.0 29.10%	110.0 13.10%	45.6 20.70%	40.0 5.70%
Silage	24.0 9.80%	350.0 35.00%	170.0 38.60%	65.0 13.30%	575.0 47.90%	825.0 54.10%	131.0 47.60%	260.0 31.00%	93.8 42.60%	350.0 50.00%
Haylage	89.0 36.30%	428.0 42.80%	0.0 0.00%	110.0 22.40%	625.0 52.10%	700.0 45.90%	0.0 0.00%	470.0 56.00%	80.8 36.70%	310.0 44.30%
Corn	55.0 22.40%	0.0 0.00%	220.0 50.00%	175.0 35.70%	0.0 0.00%	0.0 0.00%	64.0 23.30%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Soybeans	40.0 16.30%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Wheat	0.0 0.00%	0.0 0.00%	50.0 11.40%	70.0 14.30%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%

*Receipts for 1999 are included to indicate the relative importance of each enterprise to the farm. Percents indicate the percentage of the total receipts accounted for by the livestock categories and the crops.

**Acreages for 1999 are included to indicate the relative importance of each enterprise to the farm. Total planted acreage may exceed total cropland available due to double cropping. Percents indicate the percentage of total planted acreage accounted for by the crop.

1999 CHARACTERISTICS OF PANEL FARM PRODUCING MILK (CONTINUED)

- MOD85** A 85-cow Southwestern Missouri (Christian County) moderate size dairy farm that averages 17,800 pounds of milk per cow. The farm plants 220 acres of hay and 40 acres of silage. About 87 percent of the farm's receipts come from milk.
- MOD330** A 330-cow Southwestern Missouri (Christian County) large dairy farm that averages 19,600 pounds of milk per cow. The farm plants 585 acres of hay and 180 acres of silage. Milk accounts for 93 percent of this farm's receipts.
- GAND200** A 200-cow Central Georgia (Putnam County) moderate size dairy farm that produces 18,600 pounds of milk per cow. Rather than plant any crops, this farm opts to purchase all of its feed requirements in the form of a premixed ration. Milk accounts for 95 percent of the farm's gross income.
- GASD700** A 700-cow Southern Georgia (Houston County) large dairy farm that produces 18,600 pounds of milk per cow. The farm plants 150 acres of hay and 400 acres of silage. Milk makes up 96 percent of the farm's receipts.
- FLND500** A 500-cow North Florida (Lafayette County) moderate size dairy farm that averages 16,400 pounds of milk per cow. The farm grows 125 acres of hay. All feed requirements, in addition to hay, are met through a purchased pre-mixed ration. Milk sales account for 94 percent of the farm's receipts.
- FLSD1650** A 1,650-cow South Central Florida (Okeechobee County) large dairy farm that produces 15,400 pounds of milk per cow. The farm grows 800 acres of hay. In addition to grass hay, grass silage, and pasture, cows receive a purchased premixed ration. Milk sales generate 96 percent of its receipts.

Appendix Table A8. Characteristics of Panel Farms Producing Milk.

	MOD65	MOD330	GAND200	GASD700	FLND500	FLSD1650
County	Christian	Christian	Putnam	Houston	Lafayette	Okeechobee
Total Cropland	260	685	200	507	590	1,800
Acres Owned	180	450	200	400	440	1,800
Acres Leased	80	235	0	107	150	0
Pastureland						
Acres Owned	55	20	0	150	60	0
Acres Leased	55	20	0	0	0	0
Assets (\$1000)						
Total	869	2,196	1,299	4,849	2,415	5,227
Real Estate	544	960	786	2,296	992	2,993
Machinery	163	298	97	395	270	318
Other & Livestock	162	938	416	2,158	1,153	1,916
Debt/Asset Ratios						
Total	0.34	0.13	0.24	0.12	0.10	0.66
Intermediate	0.50	0.05	0.24	0.01	0.00	1.51
Long Run	0.24	0.25	0.24	0.25	0.23	0.24
1999 Gross Receipts (\$1,000)*						
Total	230.1	939.3	622.9	2,288.2	1,583.2	4,825.2
Milk	200.9 87.30%	872.6 92.90%	592.6 95.10%	2,189.1 95.70%	1,492.1 94.20%	4,629.5 95.90%
Dairy Cattle	29.2 12.70%	66.7 7.10%	30.3 4.90%	99.0 4.30%	91.1 5.80%	195.7 4.10%
1999 Planted Acres**						
Total	260.0	765.0	0.0	640.0	125.0	800.0
Hay	220.0 84.60%	585.0 76.50%	0.0 0.00%	174.0 27.20%	125.0 100.00%	800.0 100.00%
Silage	40.0 15.40%	180.0 23.50%	0.0 0.00%	466.0 72.80%	0.0 0.00%	0.0 0.00%

*Receipts for 1999 are included to indicate the relative importance of each enterprise to the farm. Percents indicate the percentage of the total receipts accounted for by the livestock categories and the crops.

**Acreages for 1999 are included to indicate the relative importance of each enterprise to the farm. Total planted acreage may exceed total cropland available due to double cropping. Percents indicate the percentage of total planted acreage accounted for by the crop.

1999 CHARACTERISTICS OF PANEL FARMS PRODUCING BEEF CATTLE

- MTB400** A 400-cow ranch located in the eastern plains of Montana (Custer County). The ranch runs cows on a combination of owned, federal, state, and private lease land. One quarter of its total animal unit month grazing needs come from federal land and the ranch owns 14,000 acres of pasture. Of the total land owned, 440 acres are planted for hay. Cattle generates 100 percent of the total receipts on the ranch.
- WYB300** A 300-cow ranch located in North Central Wyoming (Washakie County). The ranch harvests hay from 200 acres of owned cropland, and it owns another 1000 acres of pastureland. Rangeland leased from the Forest Service provides 42 percent of the ranch's grazing needs. Cattle generates 100 percent of the total receipts on the ranch.
- COB300** A 300-cow ranch located in Northwest Colorado (Routt County). Federal land provides 7 percent of the ranch's AUM needs. Hay is produced on 400 acres of the pasture-hay land, of which the ranch owns 300. The ranch owns 1800 acres of pastureland, and the cattle graze the federal land during the summer months. Cattle generates 90 percent of the total receipts on the ranch. This ranch participates in a retained ownership program through the feedlot with 75% of the steers raised.
- MOB150** A 150-cow farm in Southwest Missouri (Dade County). The farm generates 55 percent of its receipts from beef cattle and the remainder from crops. The farm has 80 acres of sorghum, 160 acres of soybeans, 80 acres of wheat, and 400 acres of hay. Surplus hay sales make up only 6 percent of cash receipts.
- OTHER** Eight other representative farms have beef cattle operations in conjunction with their crop production (MONG1400, TXBG2000, TXBG2500, TNG900, KSSW3180, KSNW4300, TXBC1400, and TXR3750). These farming operations have from 20 to 200 mother cows in their cow/calf herds and cattle provide from 4 to 22 percent of the receipts on these farms.

Appendix Table A9. Characteristics of Panel Farms Producing Beef Cattle.

	MTB400	WYB300	COB300	MOB150
County	Custer	Washakie	Routt	Dade
Total Cropland	0	200	400	440
Acres Owned	0	200	300	320
Acres Leased	0	0	100	120
Pastureland				
Acres Owned	14,000	1,000	1,800	320
Acres Leased	0	0	0	80
Federal AUMs Leased	1,350	1,500	250	0
State/Private AUMs	450	160	630	0
Assets (\$1000)				
Total	1,826	691	3,078	770
Real Estate	1,409	377	2,684	451
Machinery	106	100	120	215
Other & Livestock	311	214	274	104
Debt/Asset Ratios				
Total	0.01	0.11	0.01	0.12
Intermediate	0.03	0.24	0.05	0.24
Long Run	0.01	0.01	0.01	0.04
Number of Livestock				
Beef Cows	400	300	300	150
1999 Gross Receipts (\$1,000)*				
Total	142.3	117.2	156.1	114.1
Cattle	142.3 100.00%	117.2 100.00%	140.8 90.20%	62.3 54.60%
Sorghum	0.0 0.00%	0.0 0.00%	0.0 0.00%	13.1 11.50%
Soybeans	0.0 0.00%	0.0 0.00%	0.0 0.00%	18.4 16.10%
Wheat	0.0 0.00%	0.0 0.00%	0.0 0.00%	13.1 11.50%
Hay	0.0 0.00%	0.0 0.00%	3.3 2.10%	6.3 5.50%
Other Receipts	0.0 0.00%	0.0 0.00%	12.0 7.70%	0.0 0.00%
1999 Planted Acres**				
Total	440.0	200.0	400.0	720.0
Sorghum	0.0 0.00%	0.0 0.00%	0.0 0.00%	80.0 11.10%
Soybeans	0.0 0.00%	0.0 0.00%	0.0 0.00%	160.0 22.20%
Wheat	0.0 0.00%	0.0 0.00%	0.0 0.00%	80.0 11.10%
Hay	440.0 100.00%	200.0 100.00%	400.0 100.00%	400.0 55.60%

*Receipts for 1999 are included to indicate the relative importance of each enterprise to the farm. Percents indicate the percentage of the total receipts accounted for by the livestock categories and the crops.

**Acreages for 1999 are included to indicate the relative importance of each enterprise to the farm. Total planted acreage may exceed total cropland available due to double cropping. Percents indicate the percentage of total planted acreage accounted for by the crop.

1999 CHARACTERISTICS OF PANEL FARMS PRODUCING HOGS

- ILH180** A 180-sow hog farm located in Western Illinois (Knox County). The farm plants 700 acres of corn and 700 acres of soybeans. This farm weans 17 pigs/sow/year and operates on 3.5 pounds of feed per pound of pork sold. The hog operation produces about 45 percent of the farm's total receipts while the sale of crops accounts for about 53 percent.
- ILH650** A 650-sow hog farm located in Western Illinois (Knox County). The farm plants 1,072 acres of corn and 878 acres of soybeans. This farm will wean an average of 22 pigs per sow in a year, and feeds about 3.1 pounds of feed per pound of pork sold in a year. The hog enterprise generates 75 percent of the total receipts on the farm. Corn and soybean sales account for the remaining 25 percent of receipts.
- INH200** A 200-sow hog farm located in North Central Indiana (Carroll County). The farm plants 600 acres of corn, 145 acres of soybeans, and 25 acres of wheat. The farm feeds 3.3 pounds of feed per pound of pork sold and weans 17 pigs/sow/year. About 58 percent of the farm's receipts comes from hogs, and the remainder of receipts is generated through crop sales.
- INH1200** A 1,200-sow hog farm located in North Central Indiana (Carroll County). The farm plants 2,066 acres of corn, 1,034 acres of soybeans, and 100 acres of wheat. The farm is able to wean 20 pigs per sow per year and feed 3.3 pounds of feed per pound of pork sold. The hog operation accounts for approximately 75 percent of the farm's total receipts. The other quarter of receipts comes from crop sales.
- NCH350** A 350-sow hog farm located in Eastern North Carolina (Wayne County). The farm plants 100 acres of hay to dispose of waste from the farrow-to-finish hog operation, but does not plant any crops for feed. All feed for the operation is purchased. The farm will wean 19.5 pigs per sow per year and will feed 3.0 pounds of feed per pound of pork sold. The sale of hogs produces 100 percent of the farm's receipts.
- NCH13268** A 13,268-sow hog farm located in Eastern North Carolina (Wayne County). The operation contracts with individual farmers who provide on-site management, labor, and facilities. The operation provides hogs, purchased feed and specialized labor for its group of contract farrowing, nursery and finishing farms. On average the farm will wean 20 pigs per sow per year. A measure of feed efficiency for this operation is 2.9 pounds of feed per pound of pork sold. 100 percent of the farm's receipts are produced from the sale of hogs.

Appendix Table A10. Characteristics of Panel Farms Producing Hogs.

	ILH180	ILH650	INH200	INH1200	NCH350	NCH13268
County	Knox	Knox	Carroll	Carroll	Wayne	Wayne
Total Cropland	1,400	1,950	770	3,200	100	0
Acres Owned	140	975	460	1,038	100	0
Acres Leased	1,260	975	310	2,162	0	0
Assets (\$1000)						
Total	1,293	5,783	1,945	5,257	1,109	12,030
Real Estate	684	4,091	1,588	3,470	727	1
Machinery	366	733	274	1,137	106	22
Other & Livestock	243	959	82	650	276	12,007
Debt/Asset Ratios						
Total	0.26	0.30	0.37	0.41	0.31	0.00
Intermediate	0.11	0.09	0.33	0.48	0.09	0.00
Long Run	0.39	0.38	0.38	0.38	0.42	0.36
Number of Livestock						
Sows	180	650	200	1,200	350	13,268
1999 Gross Receipts (\$1,000)*						
Total	487.9	1,533.6	426.1	2,641.4	592.5	21,884.0
Hogs	221.4 45.40%	1,151.2 75.10%	247.8 58.20%	1,979.5 74.90%	592.5 100.00%	21,884.0 100.00%
Corn	120.5 24.70%	104.8 6.80%	137.3 32.20%	324.0 12.30%	0.0 0.00%	0.0 0.00%
Soybeans	139.3 28.50%	270.6 17.60%	34.1 8.00%	304.8 11.50%	0.0 0.00%	0.0 0.00%
Wheat	0.3 0.10%	0.0 0.00%	5.8 1.40%	24.0 0.90%	0.0 0.00%	0.0 0.00%
Other Receipts	2.5 0.50%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%
1999 Planted Acres**						
Total	1,400.0	1,950.0	770.0	3,200.0	100.0	0.0
Corn	700.0 50.00%	1,072.5 55.00%	600.0 77.90%	2,066.0 64.60%	0.0 0.00%	0.0 0.00%
Soybeans	700.0 50.00%	877.5 45.00%	145.0 18.80%	1,034.0 32.30%	0.0 0.00%	0.0 0.00%
Wheat	0.0 0.00%	0.0 0.00%	25.0 3.20%	100.0 3.10%	0.0 0.00%	0.0 0.00%
Hay	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	100.0 100.00%	0.0 0.00%

*Receipts for 1999 are included to indicate the relative importance of each enterprise to the farm. Percents indicate the percentage of the total receipts accounted for by the livestock categories and the crops.

**Acreages for 1999 are included to indicate the relative importance of each enterprise to the farm. Total planted acreage may exceed total cropland available due to double cropping. Percents indicate the percentage of total planted acreage accounted for by the crop.

APPENDIX B:

**LIST OF PANEL FARM
COOPERATORS**

FEED GRAIN FARMS

Iowa

Facilitators

Mr. Jim Patton - Webster County Extension Agent

Dr. William Edwards - Professor and Extension Economist, Iowa State University

Panel Participants

Mr. Phil Naeve	Mr. Dennis Ammen
Mr. Larry Lynch	Mr. John Ricke
Mr. Don Sandell	Mr. Britt Shelton
Mr. Bob Anderson	Mr. Virgil Gordon
Mr. Larry Lane	Mr. Merv Berg
Mr. Perry Black	Mr. and Mrs. Jim Carver
Mr. Loren Wuebker	

Nebraska

Facilitators

Mr. Gary Zoubek - York County Extension Educator

Dr. Roger Sellee - Extension Farm Management Specialist, University of Nebraska

Panel Participants

Mr. Dave Doremus	Mr. Gale Thomsen
Mr. Boyd Stur	Mr. Kurt Goertzen
Mr. Loren Bangs	Mr. Gordon Quiring
Mr. Jerry Stahr	Mr. Dave Hutsell
Mr. Robert Jensen	Mr. Andrew Christiansen
Mr. Alan Songster	

Missouri

Facilitator

Mr. Parman Green - Farm Management Specialist, University of Missouri - Columbia

Panel Participants

Mr. Larry Davies	Mr. Clifford Lyons
Mr. Ron Gibson	Mr. Ron Linneman
Mr. Ron Venable	Mr. Glenn Kaiser
Mr. Gerald Kitchen	Mr. Jack Harriman
Mr. John Vogelsmeier	Mr. Jim Wheeler
Mr. Mike Hisle	

Texas - Northern High Plains

Facilitators

Mr. Robert Harris - Moore County Agricultural Extension Agent

Dr. Steve Amosson - Extension Economist - Management, Texas A&M University

Panel Participants

Mr. Ellis Moore	Mr. Kelly Williams
Mr. Tom Moore	Mr. Kerri Cartwright
Mr. Brent Clark	Mr. Rick May
Mr. Kelly Hays	Mr. Clyde Tims
Mr. Jerry Trussell	

FEED GRAIN FARMS (CONTINUED)**Northern Missouri***Facilitator*

Mr. Mike Killingsworth - Farm Management Consultant, Maryville, Missouri
Mr. Joe Trujillo-University of Missouri-Columbia

Panel Participants

Mr. Jack Baldwin	Mr. Don Mobley
Mr. Roger Vest	Mr. Gary Ecker
Mr. Kevin Rosenbohm	

South Carolina*Facilitator*

Mr. Toby Boring - Extension Agricultural Economist, Clemson University

Panel Participants

Mr. Harry DuRant	Mr. Steve Lowder
Mr. John Ducworth	Mr. Billy Davis
Mr. Tom Jackson	Mr. John Spann
Mrs. Vikki Brogdon	Mr. Chris Cogdill
Mr. Leslie McIntosh	

Tennessee*Facilitator*

Dr. Daryll Ray, Professor, University of Tennessee

Panel Participants

Edwin Alles	Jack Ogg
Donald Parker	Doug Schoolfield
Greg Story	Daniel Wengerd
Paul Wengard	James Yarbro

WHEAT FARMS

Washington

Facilitators

Mr. John Burns - Whitman County Agricultural Extension Agent
 Dr. Herb Hinman - Extension Economist, Washington State University

Panel Participants

Mr. Brian Largent	Mr. Gary Largent
Mr. Bruce Nelson	Mr. John Whitman
Mr. Asa Clark	Mr. Henry Suess
Mr. David Harlow	Mr. Randy Suess
Mr. Todd Scholz	

North Dakota

Facilitators

Mr. Shawn Vachal - Barnes County Extension Agent
 Mr. Dwight Aakre - Extension Associate - Farm Management, North Dakota State University

Panel Participants

Mr. Mike Clemens	Mr. Ray Haugen
Mr. Arvid Winkler	Mr. Anthony Thilmony
Mr. Wade Bruns	Mr. Leland Guscette
Mr. Jack Formo	Mr. Greg Shanenko
Mr. Jim Brotén	Mr. Charles Triebold

South Central Kansas

Facilitators

Mr. Gerald Le Valley - Sumner County Agricultural Extension Agent
 Mr. Brad Goehring - Sedgwick County Extension Agent
 Mr. Steve Westfahl - Sedgwick County Extension Agent
 Mr. Fred Delano - Administrator of Farm Management Association Program, Kansas State University

Panel Participants

Mr. Robert White	Mr. Joe Allen
Mr. Nick Steffen	Mr. Tim Turek
Mr. Donald Applegate	Mr. David Messenger
Mr. Robert Headley	Mr. Rae Reusser
Mr. Dennis Pettigrew	Mr. Jim Stuhlsatz

Colorado

Facilitators

Mr. Dennis Kaan - Regional Extension Specialist, Colorado State University
 Mr. Don Nitchie - Director, Farm Mgmt/Marketing, Colorado State University Cooperative Extension
 Dr. Paul H. Gutierrez - Associate Professor, Colorado State University

Panel Participants

Mr. Terry Kuntz	Mr. John Hickert
Mr. Calvin Schaffert	Mr. Marlin E. Snyder
Mr. John Wright	Mr. Bill Rodwell
Mr. Cliff Fletcher	Mr. Gerry Ohr
Mr. David Foy	Mr. Rick Lewton
Mr. Leland Willeke	Mr. Ken Remington

WHEAT FARMS (CONTINUED)

Northwestern Kansas

Facilitators

Mr. Scott Docken - Extension Agricultural Economist, Farm Management Association, KSU
Mr. Mark Wood - Extension Agricultural Economist, Farm Management Association, KSU
Mr. Dan Obrien - Extension Agricultural Economist, Farm Management Association, KSU
Mr. Fred Delano - Administrator of Farm Management Association Program, Kansas State University

Panel Participants

Mr. Harold Mizell	Mr. Gerald Huessman
Mr. Brian Laufer	Mr. Steve Schertz
Mr. Lee Jueneman	Mr. Dennis Franklin
Mr. Lance Leebbrick	Mr. Rich Calliham
Mr. Lyman Goetsch	Mr. Vernon Akers

COTTON FARMS**California***Facilitator*

Mr. Bruce A. Roberts - Kings County Director and Farm Advisor, University of California Cooperative Extension

Panel Participants

Mr. Mark Hansen	Mr. Wayne Wisecarver
Mr. Steve Boyett	Mr. Craig Pedersen
Mr. Ernie Taylor	Mr. Dave Smith
Mr. John Diener	Mr. Bill Tos
Mr. Jeff Hildebrand	Mr. David Costa

Texas - Southern High Plains*Facilitators*

Mr. John Farris - Dawson County Agricultural Extension Agent
Dr. Jackie Smith - Extension Economist - Management, Texas A&M University

Panel Participants

Mr. Milton Schneider	Mr. Mark Boardman
Mr. Dave Nix	Mr. Lonny Ferguson
Mr. Glen Phipps	Mr. Todd Gregory
Mr. Donald Vogler	Mr. Thomas Holder
Mr. Kent Nix	Mr. Brad Boyd
Mr. Mark Furlow	Mr. Jerry Chapman

Texas - Rolling Plains*Facilitators*

Mr. Todd Vineyard - Ellis County Agricultural Extension Agent
Mr. Stan Bevers - Extension Economist - Management, Texas A&M University

Panel Participants

Mr. Ronnie Richmond	Mr. Ronnie Riddle
Mr. Dennis Olsen	Mr. Ferdie Walker

Texas - Blacklands*Facilitator*

Mr. Ronald Leps - Williamson County Agricultural Extension Agent

Panel Participants

Mr. Donald Stolte	Mr. Bob Bartosh
Mr. Herbert Raesz	Mr. Lonny Rinderknecht
Mr. Doug Schernik	

Texas - Coastal Bend*Facilitators*

Dr. Jeffrey Stapper - San Patricio-Aransas County Extension Agent
Dr. Larry Falconer - Extension Economist - Management, Texas A&M University

Panel Participants

Mr. Brad Bickham	Mr. Darby Salge
Mr. Clarence Chopelas	

Tennessee*Facilitator*

Dr. Daryll Ray, Professor, University of Tennessee

Panel Participants

Harris Armour, III	Tom Karcher
Eugene McFerren	Mark McNabb
Lee Ann Rhea	Dewayne Hendrix
Travis London	Ronald Woods

RICE FARMS

Arkansas

Facilitator

Mr. Bill Free, Riceland Foods, Inc.

Panel Participants

Mr. David Feilkie	Mr. Derek Bohanan
Mr. David Jessup	

Texas

Facilitator

Dr. Ed Rister - Professor, Texas A&M University

Panel Participants

Mr. W. A. "Billy" Hefner, III	Mr. Andy Anderson
Mr. Ronald Gertson	Mr. Madison H. Smith
Mr. Jim Wiese	Mr. John Waligur
Mr. Glen Rod	Mr. Layton Raun
Mr. Kenneth "Peter" Stelzel	Mr. Jason Hlavinka
Mr. Steve Balas	

California

Facilitator

Mr. Jack Williams - Farm Advisor, Sutter and Yuba Counties, University of California Cooperative Extension

Panel Participants

Mr. Bill Baggett	Mr. Frank Rosa
Mr. Jack DeWitt	Mr. Wayne Vineyard
Mr. Don Staas	Mr. Paul Lower
Mr. Ned Lemenager	Mr. Scott Tucker

Missouri

Facilitators

Mr. Bruce Beck - Farmer's Agronomy Specialist, University of Missouri - Columbia

Mr. David Reinbott - Farm Management Specialist, University of Missouri - Columbia

Mr. Joe Trujillo-University of Missouri-Columbia

Panel Participants

Mr. Sonny Martin	Mr. Fred Tanner
Mr. Bruce Yarbro	Mr. J. D. Sifford
Mr. C. P. Johnson	Mr. Mike Mick
Mr. Davis Minton	Mr. Rick Spargo
Mr. Floyd Page	Mr. Cloyce Sowell
Mr. Dale Conner	

Louisiana

Facilitators

Mr. Eddie Eskew - County Agent, Louisiana Cooperative Extension Service

Mr. Howard J. Cormier - County Agent, Louisiana Cooperative Extension Service

Mr. Ronnie Levy - County Agent/Parrish Chairman, Louisiana Cooperative Extension Service

Mr. D. L. Eugene (Gene) Johnson - Specialist in Marketing, Louisiana Cooperative Extension Service, Natural Resources and Economic Development

Panel Participants

Mr. Alden Horten	Mr. Brian Wild
Mr. Tommy Faulk	Mr. Allan McLain
Mr. Jackie Loewes	

DAIRY FARMS

California

Facilitator

Mr. Larry Serpa

Panel Participants

Mr. Dave Rebeiro

Mr. Bill Van Beek

Mr. Phillip Rebeiro

Mr. Jeff Wilbur

New Mexico

Facilitator

Dr. Robert Schwartz - Professor and Extension Economist, Texas A&M University

Panel Participants

Mr. Joe Gonzalez

Mr. Bill Davis

Mr. Bob Wade

Mr. Marc Reischman

Mr. Mike Visser

Washington

Facilitator

Mr. Robert Dyk

Panel Participants

Mr. Ron Bronsema

Mr. Rod DeJong

Mr. Greg McKay

Mr. Ed Pomeroy

Mr. Keith Boon

Mr. Dick Bengen

Mr. Peter Vlas

Idaho

Facilitator

Mr. Dean Falk - Extension Dairy Specialist, University of Idaho

Dr. Wilson Grey - Farm Management Specialist - University of Idaho

Panel Participants

Mr. & Mrs. Martin Lee

Mr. Harry Hogland

Mr. Michael Quesnell

Mr. Greg Ledbetter

Mr. Bill Stouder

Mr. Rick Thompson

Mr. John Beukers

Mr. Jack Van Beek

Mr. Adrian Boer

Mr. Reagan Hatch

Mr. Alan Gerratt

Mr. Hank Hafliger

Mr. Randy Tolman

Mr. Kurt Alberdi

Mr. Dennis Edlund

Ms. Anna Sybrandy

Texas - Central

Facilitator

Mr. Joe Pope - Erath County Agricultural Extension Agent

Panel Participants

Mr. Lane Jones

Mr. Lonnie Hammonds

Mr. Leonard Moncrief

Mr. Jack Parks

Mr. Jake Van Vliet

Mr. Owen Sieperda

DAIRY FARMS (CONTINUED)

Texas - Eastern

Facilitator

Mr. Dale Haygood - Zone Manager, Associated Milk Producers, Inc.

Panel Participants

Mr. George Tenberg	Mr. Michael Mund
Mr. Greg Inman	Mr. Hershel Kelsoe
Mr. Tim Spiva	Mr. Larry Ellison
Mr. Harold Bryant	Mr. W.D. Wafford
Mr. Timothy Norris	Mr. Larry Spradlin

Missouri

Facilitator

Mr. Ron Young - Christian County Extension Dairy Specialist, Retired

Mr. Stacey Hamilton – Green County Dairy Specialist

Panel Participants

Mr. Allen Sulgrove	Mr. & Mrs. Doug Owen
Mr. & Mrs. Freddie Martin	Mr. Wayne Whitehead
Mr. Joe Peebles	Mr. Larry Winfree
Mr. John McArthur	

Michigan

Facilitator

Mr. Mike McFadden - Extension Dairy Agent - Michigan State University

Dr. Craig Thomas - Extension Dairy Agent - Michigan State University Extension

Mr. Wes Lane - Director- Communications Division - Dairy Farmers of Ontario

Dr. Sherrill Nott - Farm Management Specialist - Michigan State University

Panel Participants

Mr. Tom Fox	Mr. Ron McDonald
Mr. Keith Moeggenberg	Mr. Bryan Neyer
Mr. Bob Pasch	Mr. Jerry Varner
Mr. Jim Wilson	Mr. Mike Fagan
Mr. & Mrs. Don Hopper	Mr. Jim Reid
Mr. Jason Shinn	Mr. Duane Stuever

Florida

Facilitators

Mr. Chris Vann - Lafayette County Agricultural Extension Agent

Mr. Art Darling - Dairy Farms, Inc.

Panel Participants

Mr. Morris Jackson	Mr. Everett Kerby
Mr. Bobby Koon	Mr. Terry Reagan
Mr. Louis Shiver	Mr. Roger Butler
Mr. Bob Butler	Mr. Ray Melear
Mr. Glynn Rutledge	Mr. Bob Rydzewski

Georgia

Facilitator

Mr. Bill Thomas - Professor and Extension Economist, University of Georgia

Panel Participants

Mr. Carlton McMichael	Mr. Lamar Anthony
Mr. Mike Rainey	Mr. Ernest Turk
Mr. Ronny Parham	Mr. Raymond Hunter
Mr. Bill Boyce	Mr. Tom Thompson
Mr. Bernard Sims	Mr. Henry Cabaniss
Mr. Terry Embry	Mr. Tim Camp

DAIRY FARMS (CONTINUED)**Wisconsin***Facilitator*

Mr. Jeff Key - Winnebago County Agricultural Extension Agent

Panel Participants

Mr. Joe Bonlender	Mr. Pete Knigge
Mr. Fred Kasten	Mr. Dean Hughes
Mr. Dave Bradley	Mr. Gary Frank
Mr. Micheal Hinz	Ms. Linda Hodorff
Mr. Vernon Newhouse	Mr. Jeffery Pollack
Mr. Larry Pollack	Mr. John Ruedinger

New York - Western*Facilitator*

Mr. Steve Richards – Cornell Cooperative Extension

Panel Participants

Mr. Walter Faryns	Mr. Kent Miller
Mr. Collin Broughton	Mr. Bill Fitch
Mr. George Mueller	Mr. John Mueller
Mr. John Noble	

New York - Central*Facilitator*

Dr. Wayne Knoblauch - Professor, Cornell University

Panel Participants

Mr. Gary Mutchler	Mr. Robert Howland
Mr. Bill Kilcer	Mr. Robert Space
Mr. Chuck Benson	Mr. Mike Learn
Mr. Edie McMahon	Mr. Kenton Patchen
Mr. Martin Young	

Vermont*Facilitator*

Dr. Rick Wackernagel - Professor, University of Vermont

Panel Participants

Mr. Steve Hurd	Mr. Kim Harvey
Mr. Everett Maynard	Mr. Stanley Scribner
Mr. Ted Foster	Mr. Roger Rainville
Mr. Onan Whitcomb	Ms. Sally Goodrich
Mr. Mark Rodgers	Mr. Steven Jones
Mr. David Conant	Mr. Mitch Montagne
Mr. Dennis Mueller	

BEEF PRODUCERS**Montana***Facilitators*

Mr. Olaf Sherwood - Custer County Agricultural Extension Agent
Dr. Alan Baquet - Farm Management Specialist, Montana State University

Panel Participants

Mr. Dee Murray	Mr. Donald Ochsner
Mr. Jean Robinson	Mr. Art Drange

Colorado*Facilitator*

Mr. C.J. Mucklow - Routt County Agricultural Extension Agent

Panel Participants

Mr. Doug Carlson	Mr. Dean Rossi
Mr. Charlie Cammer	Mr. Wayne Shoemaker
Mr. Jay Fetcher	Mr. Larry Monger
Mr. Pud Stetson	Mr. Jim Rossi

Wyoming*Facilitators*

Mr. Jim Gill, County Extension Agent, Washakie County
Dr. Larry Van Tassell - University of Wyoming

Panel Participants

Mr. Bill Greer	Mr. Gary Rice
Mr. Ray Rice	Mr. Jim Foreman

HOG FARMS

Illinois

Facilitator

Mr. Don Teel - Retired Knox County Agricultural Extension Agent

Panel Participants

Mr. David Hawkinson	Mr. Sterling Saline
Mr. Kevin Maine	Mr. Steve Maine
Mr. Dale Carlson	Mr. Don Erickson
Mr. David Bowman	Mr. Lance Humphreys
Mr. Mike Hennenfent	Mr. Bob Hennenfent
Mr. John Gustafson	Dr. Donald G. Reeder

Indiana

Facilitator

Mr. Steve Nichols - Carroll County Agricultural Extension Agent

Dr. Chril Hurt - Extension Farm Management Specialist - Purdue University

Panel Participants

Mr. Rick Brown	Mr. Levi Huffman
Mr. Larry Trapp	Mr. Brad Burton
Mr. Sam Zook	Mr. Trent Odell
Mr. Bill Pickart	Mr. Mark Martin

Missouri

Facilitator

Mr. Parman Green - Farm Management Specialist, University of Missouri - Columbia

Panel Participants

Mr. Larry Charles	Mr. R. David Hemme
Mr. Dale Miles	Mr. Gary L. Sanders
Mr. Vernon Thoeni	Mr. Robert S. Mayden
Mr. John Vogelsmeier	Mr. Matt Reichert
Mr. Herbert Kiehl	Mr. Richard Clemens
Mr. Paul Benedict	

North Carolina

Facilitators

Mr. Mike Regans - Wayne County Agricultural Extension Agent

Dr. Kelly Zering - Associate Professor and Extension Specialist, North Carolina State University

Mr. Jeff Chandler - Wayne County Agricultural Extension Agent

Panel Participants

Mr. Ben Outlaw	Mr. Frankie Warren
Mr. David Harrell Overman	Mr. Jeff Hansen
Mr. Charlie McClenney	Mr. John Dawson
Mr. Ronald Parks	Mr. R.H. Mokesky
Mr. David Sanderson	

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