

**APPENDIX A:**

**CHARACTERISTICS OF**

**REPRESENTATIVE FARMS**

**CHARACTERISTICS OF PANEL FARMS PRODUCING FEED GRAINS**

- 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 55 percent of its receipts from corn.
- IAG2200** A 2,200-acre Northwestern Iowa (Webster County) large grain farm that plants 1,100 acres of corn and 1,100 acres of soybeans. The farm generates 56 percent of its receipts from corn.
- MOCG1500** A 1,500-acre Central Missouri (Carroll County) moderate size grain farm with 250 acres of wheat, 550 acres of corn, and 700 acres of soybeans. This farm is located in the Missouri river bottom and supplies feed to the livestock producers in the region at premium to other areas of Missouri. Corn generates about 44 percent of the farm's receipts.
- MOCG3000** A 3,000-acre Central Missouri (Carroll County) large grain farm with 300 acres of wheat, 1,350 acres of corn, and 1,350 acres of soybeans. This farm is located in the Missouri river bottom and supplies feed to the livestock producers in the region at premium to other areas of Missouri. The farm generates about 54 percent of its total revenue from corn.
- MONG1200** A 1,200-acre Northern Missouri (Nodaway County) diversified grain farm with 525 acres of corn, 525 acres of soybeans, and 150 acres of hay. The farm also has 150 breeding cows and 80 breeding sows. The farm generates about 47 percent of its total revenue from corn and soybeans, 38 percent from hogs, and 13 percent from cattle.
- NEG800** A 800-acre South Central Nebraska (Phelps County) moderate size 100 percent irrigated grain farm that plants 770 acres of corn, and 30 acres of alfalfa. The farm also has 100 breeding cows. The farm generates 92 percent of its receipts from corn.
- NEG1575** A 1,575-acre South Central Nebraska (Phelps County) large 100 percent irrigated grain farm that plants 1,575 acres of corn. The farm generates about 97 percent of its receipts from corn.

Appendix Table A1. Characteristics of Representative Farms in Iowa, Missouri, and Nebraska Producing Feed Grains.

	IAG950	IAG2200	MOCG1500	MOCG3000	MONG1200	NEG800	NEG1575
County	Webster	Webster	Carroll	Carroll	Nodaway	Phelps	Phelps
Total Cropland	950	2,200	1,500	3,000	1,200	800	1,575
Acres Owned	320	320	750	1,500	600	400	1,040
Acres Leased	630	1,880	750	1,500	600	400	535
Pastureland							
Acres Owned	0	0	0	0	300	250	0
Acres Leased	0	0	0	0	300	250	0
Assets (\$1,000)							
Total	1,204	1,461	1,780	3,293	1,562	1,292	2,778
Real Estate	943	958	1,345	2,565	1,135	965	2,150
Machinery	216	401	361	547	241	273	573
Other & Livestock	45	102	75	182	186	54	55
Number of Livestock							
Beef Cows	0	0	0	0	150	100	0
Sows	0	0	0	0	80	0	0
1996 Gross Receipts (\$1,000)*							
Total	327.6	586.8	390.4	857.9	475.2	371.9	776.7
Cattle	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	63.3 13.30%	29.6 8.00%	0.0 0.00%
Hogs	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	181.2 38.10%	0.0 0.00%	0.0 0.00%
Corn	179.4 54.80%	327.1 55.80%	171.2 43.90%	462.5 53.90%	94.2 19.80%	342.3 92.00%	756.7 97.40%
Wheat	0.0 0.00%	0.0 0.00%	45.9 11.70%	57.3 6.70%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Soybeans	148.2 45.20%	259.7 44.20%	163.2 41.80%	338.1 39.40%	130.5 27.50%	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%	6.0 1.30%	0.0 0.00%	0.0 0.00%
Other Receipts	0.0 0.00%	0.0 0.00%	10.0 2.60%	0.0 0.00%	0.0 0.00%	0.0 0.00%	20.0 2.60%
1996 Planted Acres**							
Total	950	2,200	1,500	3,000	1,200	800	1,575
Corn	475.0 50.00%	1,100.0 50.00%	550.0 36.70%	1,350.0 45.00%	525.0 43.80%	770.0 96.30%	1,575.0 100.00%
Wheat	0.0 0.00%	0.0 0.00%	250.0 16.70%	300.0 10.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Soybeans	475.0 50.00%	1,100.0 50.00%	700.0 46.70%	1,350.0 45.00%	525.0 43.80%	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%	150.0 12.50%	30.0 3.80%	0.0 0.00%

\*Receipts for 1996 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 1996 are included to indicate the relative importance of each enterprise to the farm; these values reflect acreage reduction percentages that year. 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.

**CHARACTERISTICS OF PANEL FARMS PRODUCING FEED GRAINS (CONTINUED)**

- TXNP1600** A 1,600-acre Northern High Plains of Texas (Moore County) moderate size 100 percent irrigated grain farm with 642 acres of wheat, 280 acres of sorghum, 470 acres of corn, and 208 acres fallow. The farm generates 68 percent of its total receipts from feed grains.
- TXNP5500** A 5,500-acre Northern High Plains of Texas (Moore County) large 85 percent irrigated grain farm with 1,675 acres of irrigated wheat, 800 acres of dryland wheat in the corners of all pivot irrigated fields, 275 acres of irrigated sorghum, 2,200 acres of irrigated corn, and 550 acres fallow. The farm generates about 72 percent of its receipts from feed grains.
- 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 2020 acres of double crop wheat and soybeans, 350 acres of cotton, 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 Representative Farms in Texas and South Carolina Producing Feed Grains.

	TXNP1600	TXNP5500	SCG1500	SCG3500
County	Moore	Moore	Clarendon	Clarendon
Total Cropland	1,600	5,500	1,500	3,500
Acres Owned	320	1,100	500	1,400
Acres Leased	1,280	4,400	1,000	2,100
Assets (\$1000)				
Total	568	2,124	934	3,051
Real Estate	185	647	567	1,954
Machinery	316	1,216	271	783
Other	67	260	96	314
1996 Gross Receipts (\$1,000)*				
Total	376.5	1,411.7	618.0	1,627.3
Corn	186.0 49.40%	949.9 67.30%	192.4 31.10%	404.4 24.90%
Sorghum	68.7 18.20%	67.0 4.70%	0.0 0.00%	0.0 0.00%
Wheat	121.9 32.40%	379.8 26.90%	386.2 62.50%	0.0 0.00%
Soybeans	0.0 0.00%	0.0 0.00%	39.4 6.40%	1,007.9 61.90%
Cotton	0.0 0.00%	0.0 0.00%	0.0 0.00%	215.0 13.20%
Other Receipts	0.0 0.00%	15.0 1.10%	0.0 0.00%	0.0 0.00%
1996 Planted Acres**				
Total	1,600	5,500	1,500	3,500
Corn	470.0 29.40%	2,200.0 40.00%	600.0 40.00%	1,130.5 32.30%
Sorghum	280.0 17.50%	275.0 5.00%	0.0 0.00%	0.0 0.00%
Wheat	642.0 40.10%	2,475.0 45.00%	750.0 50.00%	0.0 0.00%
Soybeans	0.0 0.00%	0.0 0.00%	150.0 10.00%	2,019.5 57.70%
Cotton	0.0 0.00%	0.0 0.00%	0.0 0.00%	350.0 10.00%
Fallow	208.0 13.00%	550.0 10.00%	0.0 0.00%	0.0 0.00%

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## CHARACTERISTICS OF PANEL FARMS PRODUCING WHEAT

- WAW1500** A 1,500-acre Southeastern Washington (Whitman County) moderate size grain farm that plants 750 acres of wheat, 300 acres of barley, and 450 acres of peas. Disease problems require a rotation that includes a minimum amount of barley and peas in order to maintain wheat yields. The farm generates 67 percent of its receipts from wheat.
- WAW4250** A 4,250-acre Southeastern Washington (Whitman County) large size grain farm that is harvesting 3,188 acres of wheat, 425 acres of Barley, and 638 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 86 percent of receipts.
- NDW1760** A 1,760-acre South Central North Dakota (Barnes County) moderate size grain farm that has 920 acres of wheat, 400 acres of barley, and 440 acres of sunflowers. Rotation and disease problems will not allow more than 25 percent of the acres to be planted to sunflowers. The farm receives about 52 percent of receipts from wheat.
- NDW4600** A 4,600-acre South Central North Dakota (Barnes County) large grain farm that plants 2,400 acres of wheat, 1,200 acres of barley, and 1,000 acres of sunflowers. Rotation and disease problems will not allow more than 25 percent of the acres to be planted to sunflowers. Wheat accounts for 52 percent of the farms total gross receipts.
- KSSC1495** A 1,495-acre South Central Kansas (Sumner County) moderate size grain farm that plants 1,200 acres of wheat, and 295 acres of grain sorghum. The farm generates 81 percent of its receipts from wheat.
- KSSC3080** A 3,080-acre South Central Kansas (Sumner County) large grain farm harvesting 2,464 acres of wheat, 462 acres of grain sorghum, and 154 acres of hay. The farm also has 67 breeding cows. The farm generates 81 percent of its receipts from wheat.
- KSNW2325** A 2,325-acre North Western Kansas (Thomas County) moderate size grain farm that plants 900 acres of wheat, 225 acres of grain sorghum, 225 acres of corn and has 900 acres of fallow. The farm also has 100 breeding cows. The farm generates 55 percent of its receipts from wheat.
- KSNW4300** A 4,300-acre North Western Kansas (Thomas County) large grain farm harvesting 2,000 acres of wheat, 250 acres of grain sorghum, 250 acres of dryland corn, 240 of irrigated corn, 75 acres of hay, and 1485 acres of fallow. The farm also has 100 breeding cows. The farm generates 56 percent of its receipts from wheat.
- COW2700** A 2,700-acre Northeast Colorado (Washington County) moderate size grain farm that plants 1,100 acres of wheat, 400 acres of millet, and 120 acres of corn, and will leave 810 acres fallow. This farm is using a smaller fallow rotation than its larger counterpart thus allowing for only 680 less harvested acres per year. The farm generates 69 percent of its receipts from wheat.
- COW4000** A 4,000-acre Northeast Colorado (Washington County) large size grain farm that plants 1,700 acres of wheat, and 600 acres of millet, and will leave 1700 acres in fallow. The 50/50 rotation on wheat and fallow makes the harvested acres on this farm closer to the harvested acres on the moderate farm. Wheat produces 81 percent of the farms gross revenue.

Appendix Table A3. Characteristics of Representative Farms in Washington, North Dakota, Kansas, and Colorado Producing Wheat.

	WAW1500	WAW4250	NDW1760	NDW4600	KSSC1495	KSSC3080	KSNW2325	KSNW4300	COW2700	COW4000
County	Whitman	Whitman	Barnes	Barnes	Sumner	Sumner	Thomas	Thomas	Washington	Washington
Total Cropland	1,500	4,250	1,760	4,600	1,495	3,080	2,325	4,300	2,700	4,000
Acres Owned	750	1,700	400	1,840	498	330	930	1,075	1,650	2,000
Acres Leased	750	2,550	1,360	2,760	997	2,750	1,395	3,225	1,050	2,000
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 (\$1,000)										
Total	1,217	3,309	545	1,985	558	937	960	1,311	1,034	1,422
Real Estate	931	2,294	215	968	277	353	585	712	743	960
Machinery	241	756	272	838	274	474	291	474	246	369
Other & Livestock	45	258	58	179	7	110	84	124	45	93
Number of Livestock										
Beef Cows	0	0	0	0	0	67	100	100	0	0
1996 Gross Receipts (\$1,000)*										
Total	401.2	1,148.6	291.0	880.8	174.7	429.0	219.1	474.4	243.9	391.0
Cattle	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	21.8 5.10%	28.4 13.00%	28.8 6.10%	0.0 0.00%	0.0 0.00%
Wheat	266.7 66.50%	982.4 85.50%	152.1 52.30%	458.3 52.00%	141.0 80.70%	348.8 81.30%	120.5 55.00%	268.3 56.60%	168.2 69.00%	315.5 80.70%
Sorghum	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	33.8 19.30%	58.0 13.50%	27.2 12.40%	34.8 7.30%	0.0 0.00%	0.0 0.00%
Barley	63.9 15.90%	86.6 7.50%	62.9 21.60%	225.2 25.60%	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%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	42.3 19.30%	142.5 30.00%	15.4 6.30%	0.0 0.00%
Dry Peas	70.7 17.60%	79.6 6.90%	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%	70.9 24.40%	192.3 21.80%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	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%	54.2 22.20%	75.4 19.30%
Hay	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.4 0.10%	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%	5.0 1.70%	5.0 0.60%	0.0 0.00%	0.0 0.00%	0.7 0.30%	0.0 0.00%	6.1 2.50%	0.0 0.00%
1996 Planted Acres**										
Total	1,500	4,250	1,760	4,600	1,495	3,080	2,250	4,300	2,430	4,000
Wheat	750.0 50.00%	3,187.5 75.00%	920.0 52.30%	2,400.0 52.20%	1,200.0 80.30%	2,464.0 80.00%	900.0 40.00%	2,000.0 46.50%	1,100.0 45.30%	1,700.0 42.50%
Sorghum	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	295.0 19.70%	462.0 15.00%	225.0 10.00%	250.0 5.80%	0.0 0.00%	0.0 0.00%
Barley	300.0 20.00%	425.0 10.00%	400.0 22.70%	1,200.0 26.10%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%
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%	225.0 10.00%	490.0 11.40%	120.0 4.90%	0.0 0.00%
Dry Peas	450.0 30.00%	637.5 15.00%	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%
Sunflowers	0.0 0.00%	0.0 0.00%	440.0 25.00%	1,000.0 21.70%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%
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%	400.0 16.50%	600.0 15.00%
Hay	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	154.0 5.00%	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%	900.0 40.00%	1,485.0 34.50%	810.0 33.30%	1,700.0 42.50%

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**CHARACTERISTICS OF PANEL FARMS PRODUCING COTTON**

- CAC2000** A 2000-acre Central San Joaquin Valley California (Kings County) moderate size cotton farm that plants 1100 acres of cotton, 300 acres of wheat, 300 acres of corn and 300 acres of hay. The farm generates 65 percent of its gross income from cotton.
- CAC6000** A 6000-acre Central San Joaquin Valley California (Kings County) large cotton farm harvesting 3,000 acres of cotton, 1,500 acres of vegetables, 720 acres of wheat, 240 acres of corn, and 300 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 1500 acres remain relatively stable over time. Cotton generates about 70 percent of this farm's receipts.
- TXSP1682** A 1,682-acre Texas Southern High Plains (Dawson County) moderate size cotton farm. The farm plants 961 acres of cotton (886 dryland and 75 irrigated), 95 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 81 percent of its receipts from cotton.
- TXSP3697** A 3,697-acre Texas Southern High Plains (Dawson County) large cotton farm. The farm plants 2,822 acres of cotton (2,094 dryland and 728 irrigated), 128 acres of peanuts and has 214 acres in CRP. Cotton generates 93 percent of this farms receipts.
- TXRP2065** A 2,065-acre Texas Rolling Plains (Jones County) cotton farm that plants 1,240 acres of cotton, and 825 acres of wheat. The farm also has 25 breeding cows and uses the wheat acreage to graze the cattle in the winter. About 73 percent of this farms receipts are derived from cotton. This farm represents the consolidation of two previous representative farms.
- TXBL1200** A 1,200-acre Texas Blacklands (Williamson County) moderate size cotton and grain farm with 400 acres of cotton, 350 acres of sorghum, 350 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 50 percent of the farms receipts.
- TXCB1700** A 1,700-acre Texas Coastal Bend (San Patricio County) cotton farm with 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 70 percent of this farm's receipts are cotton receipts.

Appendix Table A4. Characteristics of Representative Farms in California and Texas Producing Cotton.

	CAC2000	CAC6000	TXSP1682	TXSP3697	TXRP2065	TXBL1200	TXCB1700
County	Kings	Kings	Dawson	Dawson	Jones	Williamson	San Patricio
Total Cropland	2,000	6,000	1,682	3,697	2,500	1,200	1,700
Acres Owned	1,000	5,400	653	705	400	150	300
Acres Leased	1,000	600	1,029	2,992	2,100	1,050	1,400
Pastureland							
Acres Owned	0	0	0	0	0	30	0
Acres Leased	0	0	0	0	500	210	0
Assets (\$1,000)							
Total	4,259	14,206	613	1,165	427	525	512
Real Estate	3,300	12,030	295	374	190	226	286
Machinery	796	1,658	288	668	212	266	216
Other & Livestock	163	519	29	122	25	33	10
Number of Livestock							
Beef Cows	0	0	0	0	25	50	0
1996 Gross Receipts (\$1,000)*							
Total	1,895.4	5,383.8	295.6	966.5	233.4	246.3	421.0
Cattle	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	6.2 2.70%	7.9 3.20%	0.0 0.00%
Cotton	1,229.5 64.90%	3,787.4 70.30%	240.1 81.20%	900.5 93.20%	170.3 73.00%	122.8 49.90%	294.5 70.00%
Sorghum	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	44.9 18.20%	126.5 30.00%
Wheat	131.3 6.90%	375.5 7.00%	0.0 0.00%	0.0 0.00%	56.8 24.40%	11.7 4.70%	0.0 0.00%
Corn	190.2 10.00%	138.7 2.60%	0.0 0.00%	0.0 0.00%	0.0 0.00%	59.0 24.00%	0.0 0.00%
Hay	344.4 18.20%	332.1 6.20%	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%	45.2 15.30%	57.4 5.90%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Other Receipts	0.0 0.00%	750.0 13.90%	10.3 3.50%	8.6 0.90%	0.0 0.00%	0.0 0.00%	0.0 0.00%
1996 Planted Acres**							
Total	2,000	5,760	1,239	3,164	2,065	1,200	1,700
Cotton	1,100.0 55.00%	3,000.0 52.10%	961.0 77.60%	2,822.0 89.20%	1,240.0 60.00%	400.0 33.30%	765.0 45.00%
Sorghum	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	350.0 29.20%	935.0 55.00%
Wheat	300.0 15.00%	720.0 12.50%	0.0 0.00%	0.0 0.00%	825.0 40.00%	100.0 8.30%	0.0 0.00%
Corn	300.0 15.00%	240.0 4.20%	0.0 0.00%	0.0 0.00%	0.0 0.00%	350.0 29.20%	0.0 0.00%
Hay	300.0 15.00%	300.0 5.20%	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%	95.0 7.70%	128.0 4.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Vegetables	0.0 0.00%	1,500.0 26.00%	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 14.80%	214.0 6.80%	0.0 0.00%	0.0 0.00%	0.0 0.00%

\*Receipts for 1996 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 1996 are included to indicate the relative importance of each enterprise to the farm; these values reflect acreage reduction percentages that year. 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.

**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 95 percent of its gross income from rice.
- CAR1365** A 1,365-acre Sacramento Valley California (Sutter and Yuba Counties) large rice farm that plants 1265 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 99 percent of its gross receipts from rice.
- TXR3750** A 3,750-acre West of Houston, Texas (Wharton County) large rice farm that harvests 1500 acres of first-crop rice, 1275 acres of ratoon rice, and 200 acres of hay. The farm also has 200 breeding cows. 96 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 47 percent of this farms 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. Fifty-five percent of this farm's receipts are generated from rice.
- LAR1100** A 1,100-acre Louisiana (Jefferson Davis, Acadia, and Vermilion Parishes) moderate size rice farm harvesting 540 acres of rice, 362 acres of soybeans, and 198 acres of fallow. About 83 percent of this farm's receipts are generated by rice.

Appendix Table A5. Characteristics of Representative Farms in California, Texas, Missouri, and Louisiana Producing Rice.

	CAR424	CAR1365	TXR2118	TXR3750	MOR1900	MOR4000	LAR1100
County	Sutter	Yuba	Wharton	Wharton	Butler	Butler	Acadia
Total Cropland	424	1,365	2,118	3,750	1,900	4,000	1,100
Acres Owned	212	515	318	1,688	380	2,000	50
Acres Leased	212	850	1,800	2,062	1,520	2,000	1,050
Pastureland							
Acres Owned	0	0	0	200	0	0	0
Assets (\$1,000)							
Total	694	1,985	558	1,934	1,482	5,557	302
Real Estate	446	1,327	197	1,138	846	3,942	78
Machinery	207	550	303	602	608	1,411	197
Other & Livestock	40	109	58	194	28	204	27
Number of Livestock							
Beef Cows	0	0	0	200	0	0	0
1996 Gross Receipts (\$1,000)*							
Total	363.8	1,133.5	487.9	1,385.0	662.4	1,932.8	329.2
Cattle	0.0 0.00%	0.0 0.00%	0.0 0.00%	32.7 2.40%	0.0 0.00%	0.0 0.00%	0.0 0.00%
Medium Grain Rice	345.5 95.00%	1,113.9 98.30%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	95.7 29.10%
Long Grain Rice	0.0 0.00%	0.0 0.00%	480.9 98.60%	1,332.3 96.20%	316.2 47.70%	1,078.1 55.80%	177.6 53.90%
Soybeans	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	129.0 19.50%	197.9 10.20%	52.9 16.10%
Corn	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	217.2 32.80%	521.7 27.00%	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%	135.0 7.00%	0.0 0.00%
Other Receipts	18.3 5.00%	19.6 1.70%	7.0 1.40%	20.0 1.40%	0.0 0.00%	0.0 0.00%	3.0 0.90%
1996 Planted Acres**							
Total	400	1,265	1,110	2,975	1,899	4,000	1,100
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%	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%	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%	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%	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%
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%
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%	198.1 18.00%

\*Receipts for 1996 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 1996 are included to indicate the relative importance of each enterprise to the farm; these values reflect acreage reduction percentages that year. 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.

**CHARACTERISTICS OF PANEL FARMS PRODUCING MILK**

- CAD1710** A 1710-cow Central California (Tulare County) large dairy farm that produces 21,800 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 95 percent of all receipts.
- NMD2000** A 2000-cow Southern New Mexico (Dona Anna and Chaves County) large dairy farm that averages 22,400 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 95 percent of cash receipts.
- WAD185** A 185-cow Northern Washington (Whatcom County) moderate size dairy farm that produces 25,500 pounds of milk per cow. The farm plants 115 acres of silage and generates 98 percent of its receipts from milk.
- WAD850** A 850-cow Northern Washington (Whatcom County) large dairy farm that produces 23,500 pounds of milk per cow. The farm plants 505 acres of silage and generates 97 percent of its receipts from milk.
- IDD500** A 500-cow Idaho (Twin Falls County) moderate size dairy farm that produces 21,000 pounds of milk per cow. The farm plants no crops. Milk is 91 percent of the farms gross income.
- IDD1800** A 1800-cow Idaho (Twin Falls County) large dairy farm that produces 21,000 pounds of milk per cow. The farm plants 156 acres of hay and 398 acres of silage. Milk is 95 percent of the farms gross income.
- TXCD400** A 400-cow Central Texas (Erath County) moderate size dairy farm that produces 16,100 pounds of milk per cow. The farm plants 120 acres of hay and 183 acres of silage. Milk is 95 percent of the farms gross income.
- TXCD825** A 825-cow Central Texas (Erath County) large dairy farm that produces 19,200 pounds of milk per cow. The farm plants 215 acres for silage, 20 acres of haylage, and milk accounts for 96 percent of receipts.
- TXED210** A 210-cow East Texas (Hopkins County) moderate size dairy farm that produces 16,000 pounds of milk per cow. The farm plants 195 acres of hay and generates 90 percent of its receipts from milk.
- TXED650** A 650-cow East Texas (Lamar County) large dairy farm that produces 17,000 pounds of milk per cow. The farm plants 140 acres of hay and 360 acres of silage. The farm generates 93 percent of its receipts from milk.

Appendix Table A6. Characteristics of Representative Farms in California, New Mexico, Washington, Idaho, and Texas Producing Milk.

	CAD1710	NMD2000	WAD185	WAD850	IDD500	IDD1800	TXCD400	TXCD825	TXED210	TXED650
County	Tulare	Dona Ana	Whatcom	Whatcom	Twin Falls	Twin Falls	Erath	Erath	Hopkins	Lamar
Total Cropland	528	300	120	505	80	620	300	250	250	500
Acres Owned	528	300	60	250	80	620	150	250	200	500
Acres Leased	0	0	60	255	0	0	150	0	50	0
Pastureland										
Acres Owned	0	0	0	0	0	0	0	250	25	300
Acres Leased	0	0	0	0	0	0	150	0	0	0
Assets (\$1,000)										
Total	7,264	6,228	785	3,657	2,025	7,065	1,096	2,094	774	2,099
Real Estate	4,506	3,480	485	2,480	1,040	3,674	534	913	380	980
Machinery	412	403	62	286	257	423	200	231	104	284
Other & Livestock	2,345	2,345	238	890	728	2,968	362	950	290	835
Number of Livestock										
Dairy Cows	1,710	2,000	185	850	500	1,800	400	825	210	650
Owt Milk/Cow	218	224	255	235	210	210	161	192	160	170
1996 Gross Receipts (\$1,000)*										
Total	5,242.6	6,401.1	697.8	2,962.7	1,609.5	5,557.0	1,018.5	2,499.3	558.0	1,772.5
Milk	4,969.8 94.80%	6,071.5 94.90%	682.9 97.90%	2,886.4 97.40%	1,460.6 90.70%	5,254.4 94.60%	970.5 95.30%	2,395.9 95.90%	501.3 89.80%	1,648.7 93.00%
Dairy Cattle	272.8 5.20%	329.6 5.10%	14.8 2.10%	76.3 2.60%	148.9 9.30%	302.6 5.40%	48.0 4.70%	103.3 4.10%	56.6 10.10%	123.8 7.00%
1996 Planted Acres**										
Total	525	0	115	505	0	554	303	235	195	500
Hay	200.0 38.10%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	156.0 28.20%	120.0 39.60%	0.0 0.00%	195.0 100.00%	140.0 28.00%
Silage	325.0 61.90%	0.0 0.00%	115.0 100.00%	505.0 100.00%	0.0 0.00%	398.0 71.80%	183.0 60.40%	215.0 91.50%	0.0 0.00%	360.0 72.00%
Haylage	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%	20.0 8.50%	0.0 0.00%	0.0 0.00%

\*Receipts for 1996 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 1996 are included to indicate the relative importance of each enterprise to the farm; these values reflect acreage reduction percentages that year. 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.

**CHARACTERISTICS OF PANEL FARM PRODUCING MILK (CONTINUED)**

- WID70** A 70-cow Eastern Wisconsin (Winnebago County) moderate size dairy farm that produces 20,500 pounds of milk per cow. The farm plants 37 acres of hay, 45 acres of corn, 24 acres of silage, and 89 acres of haylage. Milk makes up 92 percent of this farm's receipts.
- WID600** A 600-cow Eastern Wisconsin (Winnebago County) large dairy farm that produces 19,800 pounds of milk per cow. The farm plants 350 acres of corn, 200 acres of silage, and 450 acres of haylage. Milk accounts for 93 percent of the farm's receipts.
- MIED200** A 200-cow Michigan (Sanilac County) moderate size dairy farm that produces 22,000 pounds of milk per cow. The farm plants 220 acres of corn and 170 acres of silage. Milk accounts for 94 percent of the farm's receipts.
- MICD140** A 140-cow Michigan (Isabella County) moderate size dairy farm that produces 20,300 pounds of milk per cow. The farm plants 110 acres of corn, 45 acres of hay, 65 acres of silage, and 70 acres of haylage. Milk accounts for 91 percent of the farm's receipts.
- NYWD700** A 700-cow Western New York (Wyoming County) moderate size dairy farm that produces 22,700 pounds of milk per cow. The farm plants 535 acres of silage and 450 acres of haylage. About 94 percent of the farm's receipts come from milk.
- NYWD1200** A 1200-cow Western New York (Wyoming County) large dairy farm that produces 21,700 pounds of milk per cow. The farm plants 825 acres of silage and 700 acres of haylage. Milk accounts for 96 percent of the farm's receipts.
- NYCD110** A 110-cow Central New York (Cayuga County) moderate size dairy farm that produces 22,000 pounds of milk per cow. The farm plants 49 acres of hay, 75 acres of corn, 78 acres of silage, and 84 acres of haylage. Milk accounts for 95 percent of the farms receipts.
- NYCD300** A 300-cow Central New York (Cayuga County) large dairy farm that produces 21,500 pounds of milk per cow. The farm plants 170 acres of hay, 142 acres of corn, 190 acres of silage, and 298 acres of haylage. The farm generates 95 percent of its receipts from milk.
- VTD85** A 85-cow Vermont (Washington County) moderate size dairy farm that averages 22,400 pounds of milk per cow. The farm plants 60 acres of hay, 58 acres of silage, and 70 acres of haylage. Milk accounts for 92 percent of the receipts.
- VTD350** A 350-cow Vermont (Washington County) large dairy farm that averages 22,000 pounds of milk per cow. The farm plants 205 acres of hay, 200 acres of silage, and 177 acres of haylage. Milk accounts for 96 percent of the farm's receipts.

Appendix Table A7. Characteristics of Representative Farms in Wisconsin, Michigan, New York, and Vermont Producing Milk.

	WID70	WID600	MIED200	MICD140	NYWD700	NYWD1200	NYCD110	NYCD300	VTD85	VTD350
County	Winnebago	Winnebago	Sanilac	Isabella	Wyoming	Wyoming	Cayuga	Cayuga	Washington	Washington
Total Cropland	182	1,000	590	510	935	1,800	296	800	200	700
Acres Owned	152	400	363	300	800	1,200	250	700	140	525
Acres Leased	30	600	227	210	135	600	46	100	60	175
Pastureland										
Acres Owned	0	0	50	25	200	300	50	400	50	50
Acres Leased	0	0	0	0	0	0	0	0	0	50
Assets (\$1,000)										
Total	459	2,356	1,550	1,278	3,015	4,960	602	1,490	662	1,811
Real Estate	247	1,242	870	735	1,610	2,595	379	780	360	1,040
Machinery	90	190	313	283	291	593	92	213	135	260
Other & Livestock	122	925	367	260	1,114	1,772	131	497	168	512
Number of Livestock										
Dairy Cows	70	600	200	140	700	1,200	110	300	85	350
Owt Milk/Cow	205	198	220	203	227	217	220	215	224	220
1996 Gross Receipts (\$1,000)*										
Total	226.5	1,858.2	685.4	447.7	2,495.5	4,036.4	377.1	1,012.9	316.8	1,220.8
Milk	208.8 92.20%	1,726.8 92.90%	645.0 94.10%	407.7 91.10%	2,356.0 94.40%	3,861.6 95.70%	359.4 95.30%	957.8 94.60%	289.7 91.50%	1,174.3 96.20%
Dairy Cattle	17.7 7.80%	131.4 7.10%	32.5 4.70%	40.0 8.90%	139.5 5.60%	174.8 4.30%	17.7 4.70%	55.0 5.40%	25.5 8.10%	46.5 3.80%
Wheat	0.0 0.00%	0.0 0.00%	7.9 1.20%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	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 0.50%	0.0 0.00%
1996 Planted Acres**										
Total	195	1,000	440	490	985	1,525	286	800	188	582
Hay	37.0 19.00%	0.0 0.00%	0.0 0.00%	70.0 14.30%	0.0 0.00%	0.0 0.00%	49.0 17.10%	170.0 21.30%	60.0 31.90%	205.0 35.20%
Silage	24.0 12.30%	200.0 20.00%	170.0 38.60%	65.0 13.30%	535.0 54.30%	825.0 54.10%	78.0 27.30%	190.0 23.80%	58.0 30.90%	200.0 34.40%
Haylage	89.0 45.60%	450.0 45.00%	0.0 0.00%	110.0 22.40%	450.0 45.70%	700.0 45.90%	84.0 29.40%	298.0 37.30%	70.0 37.20%	177.0 30.40%
Corn	45.0 23.10%	350.0 35.00%	220.0 50.00%	175.0 35.70%	0.0 0.00%	0.0 0.00%	75.0 26.20%	142.0 17.80%	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 1996 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 1996 are included to indicate the relative importance of each enterprise to the farm; these values reflect acreage reduction percentages that year. 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.

**CHARACTERISTICS OF PANEL FARM PRODUCING MILK (CONTINUED)**

- MOD85** A 85-cow Southwestern Missouri (Christian County) moderate size dairy farm that averages 15,600 pounds of milk per cow. The farm plants 220 acres of hay. About 91 percent of the farm's receipts come from milk.
- MOD300** A 300-cow Southwestern Missouri (Christian County) large dairy farm that averages 17,300 pounds of milk per cow. The farm plants 578 acres of hay and 107 acres of silage. Milk accounts for 95 percent of this farm's receipts.
- GAND175** A 175-cow Central Georgia (Putnam County) moderate size dairy farm that produces 18,000 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 96 percent of the farm's gross income.
- GASD650** A 650-cow Southern Georgia (Houston County) large dairy farm that produces 19,000 pounds of milk per cow. The farm plants 150 acres of hay and 200 acres of silage. Milk makes up 96 percent of the farm's receipts.
- FLND380** A 380-cow North Florida (Lafayette County) moderate size dairy farm that averages 17,000 pounds of milk per cow. The farm grows 200 acres of hay. All feed requirements, in addition to hay, are met through a purchased pre-mixed ration. Milk sales account for 95 percent of the farm's receipts. Excess hay sales provide one percent of cash receipts and are expected to provide supplemental sales from year to year.
- FLSD2000** A 2000-cow South Central Florida (Okeechobee County) large dairy farm that produces 16,500 pounds of milk per cow. The farm grows 1210 acres of hay. In addition to grass hay, grass silage, and pasture, cows receive a purchased premixed ration. Milk sales generate 94 percent of its receipts.

Appendix Table A8. Characteristics of Representative Farms in Missouri, Georgia, and Florida Producing Milk.

	MOD85	MOD300	GAND175	GASD650	FLND380	FLSD2000
County	Christian	Christian	Putnam	Houston	Layfayette	Okeechobee
Total Cropland	220	685	0	350	590	2,250
Acres Ow ned	140	450	0	300	440	2,250
Acres Leased	80	235	0	50	150	0
Pastureland						
Acres Ow ned	55	20	200	150	60	0
Acres Leased	55	100	0	0	0	0
Assets (\$1,000)						
Total	510	1,460	492	1,926	1,202	5,079
Real Estate	295	882	280	886	700	2,750
Machinery	104	217	38	284	70	210
Other & Livestock	111	360	175	756	432	2,119
Number of Livestock						
Dairy Cow s	85	300	175	650	380	2,000
Cw t Milk/Cow	156	173	180	190	170	165
1996 Gross Receipts (\$1,000)*						
Total	218.9	819.6	532.1	2,088.3	1,194.4	6,175.5
Milk	199.6 91.20%	782.6 95.50%	511.9 96.20%	2,006.9 96.10%	1,133.7 94.90%	5,791.5 93.80%
Dairy Cattle	19.4 8.80%	37.0 4.50%	20.3 3.80%	81.4 3.90%	47.5 4.00%	384.0 6.20%
Hay	0.0 0.00%	0.0 0.00%	0.0 0.00%	0.0 0.00%	13.2 1.10%	0.0 0.00%
1996 Planted Acres**						
Total	220	685	0	350	200	1,210
Hay	220.0 100.00%	578.0 84.40%	0.0 0.00%	150.0 42.90%	200.0 100.00%	1,210.0 100.00%
Silage	0.0 0.00%	107.0 15.60%	0.0 0.00%	200.0 57.10%	0.0 0.00%	0.0 0.00%

\*Receipts for 1996 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 1996 are included to indicate the relative importance of each enterprise to the farm; these values reflect acreage reduction percentages that year. 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.

**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 89 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.

Appendix Table A9. Characteristics of Representative Farms in Montana, Wyoming, and Colorado Producing Beef Cattle.

	MTB400	WYB300	COB300
County	Custer	Washakie	Routt
Total Cropland	0	200	400
Acres Owned	0	200	300
Acres Leased	0	0	100
Pastureland			
Acres Owned	14,000	1,000	1,800
Federal AUM'S Leased	1,350	1,500	250
State & Private AUM's	450	160	630
Assets (\$1000)			
Total	1,553	580	2,707
Real Estate	1,260	345	2,400
Machinery	97	75	105
Other & Livestock	195	160	202
Number of Livestock			
Beef Cows	400	300	300
1996 Gross Receipts (\$1,000)*			
Total	103.1	87.6	139.5
Cattle	103.1 100.00%	87.3 99.70%	123.8 88.70%
Hay	0.0 0.00%	0.3 0.30%	3.7 2.70%
Other Receipts	0.0 0.00%	0.0 0.00%	12.0 8.60%
1996 Planted Acres**			
Total	440	200	400
Hay	440.0 100.00%	200.0 100.00%	400.0 100.00%

\*Receipts for 1996 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 1996 are included to indicate the relative importance of each enterprise to the farm; these values reflect acreage reduction percentages that year. 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.

**CHARACTERISTICS OF PANEL FARMS PRODUCING HOGS**

- MOH100** A 100-sow hog farm located in North Central Missouri (Carroll County). The farm plants 160 acres of corn, 80 acres of soybeans, 80 acres of wheat, and 40 acres of hay. The farm weans 16 pigs per sow in a year and has a feeding efficiency measure of 3.4 pounds of feed per pound of pork sold. Hogs generate 82 percent of the farm's total receipts while crops produce another 15 percent of receipts.
- MOH225** A 225-sow hog farm located in North Central Missouri (Carroll County). The farm plants 400 acres of corn, 400 acres of soybeans, and 200 acres of wheat. This farm feeds 3.7 pounds of feed for every pound of pork sold and averages 19 pigs weaned per sow per year. The hog enterprise generates about 81 percent of the total receipts for the farm. The remainder of total receipts is generated in crop sales.
- ILH200** A 200-sow hog farm located in Western Illinois (Knox County). The farm plants 750 acres of corn, 610 acres of soybeans, and 20 acres of wheat. 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 60 percent of the farm's total receipts while the sale of crops accounts for about 40.
- ILH750** A 750-sow hog farm located in Western Illinois (Knox County). The farm plants 1080 acres of corn and 720 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 88 percent of the total receipts on the farm. Corn and soybean sales account for the remaining 11 percent.
- INH150** A 150-sow hog farm located in North Central Indiana (Carroll County). The farm plants 750 acres of corn, 225 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.
- INH600** A 600-sow hog farm located in North Central Indiana (Carroll County). The farm plants 1500 acres of corn, 700 acres of soybeans, and 50 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 three quarters 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 Representative Farms in Missouri, Illinois, Indiana, and North Carolina Producing Hogs.

	MOH100	MOH225	ILH200	ILH750	INH150	INH600	NCH350	NCH13268
County	Carroll	Carroll	Knox	Knox	Carroll	Carroll	Wayne	Wayne
Total Cropland Acres Ow ned	330	1,020	1,400	1,800	1,020	2,250	100	0
Acres Ow ned	220	520	400	950	300	800	100	0
Acres Leased	110	500	1,000	850	720	1,450	0	0
Pastureland Acres Ow ned	100	0	0	0	0	0	0	0
Assets (\$1,000)								
Total	655	1,614	2,062	5,243	1,547	4,324	1,300	19,077
Real Estate	481	1,073	1,420	3,590	1,165	2,804	745	1
Machinery	62	256	320	411	218	711	87	16
Other & Livestock	112	285	321	1,242	164	809	468	19,061
Number of Livestock								
Beef Cows	25	0	0	0	0	0	0	0
Sows	100	225	200	750	150	600	350	13,268
1996 Gross Receipts (\$1,000)*								
Total	262.0	674.9	763.5	2,405.9	606.6	2,226.4	949.6	35,086.3
Cattle	7.3 2.80%	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%
Hogs	214.5 81.90%	547.2 81.10%	454.0 59.50%	2,122.4 88.20%	349.6 57.60%	1,643.5 73.80%	949.6 100.00%	35,086.3 100.00%
Corn	3.0 1.10%	6.4 1.00%	135.0 17.70%	25.4 1.10%	186.2 30.70%	306.6 13.80%	0.0 0.00%	0.0 0.00%
Soybeans	21.7 8.30%	85.9 12.70%	166.8 21.80%	258.1 10.70%	64.7 10.70%	260.0 11.70%	0.0 0.00%	0.0 0.00%
Wheat	15.4 5.90%	35.3 5.20%	5.2 0.70%	0.0 0.00%	6.1 1.00%	16.3 0.70%	0.0 0.00%	0.0 0.00%
Other Receipts	0.0 0	0.0 0	2.5 0	0.0 0	0.0 0	0.0 0	0.0 0	0.0 0
1996 Planted Acres**								
Total	360	1,000	1,380	1,800	1,000	2,250	100	0
Corn	160.0 44.40%	400.0 40.00%	750.0 54.30%	1,080.0 60.00%	750.0 75.00%	1,500.0 66.70%	0.0 0.00%	0.0 0.00%
Soybeans	80.0 22.20%	400.0 40.00%	610.0 44.20%	720.0 40.00%	225.0 22.50%	700.0 31.10%	0.0 0.00%	0.0 0.00%
Wheat	80.0 22.20%	200.0 20.00%	20.0 1.40%	0.0 0.00%	25.0 2.50%	50.0 2.20%	0.0 0.00%	0.0 0.00%
Hay	40.0 11.10%	0.0 0.00%	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 1996 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 1996 are included to indicate the relative importance of each enterprise to the farm; these values reflect acreage reduction percentages that year. 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 Hall - Phelps County Agricultural Extension Agent  
 Dr. Roger Selley - Extension Farm Management Specialist, University of Nebraska  
 Mr. Joe Trujillo-University of Missouri-Columbia

*Panel Participants*

Mr. Frank Hadley	Mr. Tom Schwarz
Mr. Gary Robison	Mr. Tony Davis
Mr. Kerry Blythe	Mr. Johnny Nelson
Mr. Brian Johnson	Mr. Phil High

**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

**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. Kyle Williams	Mr. Wesley Spurlock
Mr. Ellis Moore	Mr. Marion Garland
Mr. Ronnie Williams	Mr. Tom Moore
Mr. Kerri Cartwright	

**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	

**FEED GRAIN FARMS CONTINUED****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

**WHEAT FARMS****Washington***Facilitators*

Mr. John Burns - Whitman County Agricultural Extension Agent  
 Dr. Herb Hinman - Extension Economist, Washington State University  
 Mr. Earl Aehtschlaeger - Adult Farm Management, Community College of Spokane

*Panel Participants*

Mr. Brian Largent	Mr. Greg Largent
Mr. Bruce Nelson	Mr. John Whitman
Mr. Asa Clark	Mr. Henry Sues
Mr. David Harlow	

**North Dakota***Facilitators*

Mr. Lester Stuber - Barnes County Agricultural 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. Jon Owen
Mr. Wade Bruns	Mr. Lloyd Thilmony
Mr. Jack Formo	Mr. Greg Shanenko

**South Central Kansas***Facilitators*

Mr. Gerald Le Valley - Sumner County Agricultural Extension Agent  
 Mr. Glen Brunkow - Harper County Extension Agent  
 Mr. Arlen Suderman - 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 Messengerr

**Colorado***Facilitators*

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	

**WHEAT FARMS CONTINUED****Northwestern Kansas***Facilitators*

Mr. Rich Wahl - Extension Agricultural Economist, Farm Management Assoc., Kansas State University  
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 Leebrick	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. Nolan Vogler	Mr. Donald Vogler
Mr. Milton Schneider	Mr. Kent Nix
Mr. Dave Nix	Mr. Mark Furlow
Mr. Allan Gibson	Mr. Norris Barron
Mr. Glen Phipps	

**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. Steve Blankenship	Mr. Mark Lundgren
Mr. James Seidenberger	Mr. B.C. Spraberry
Mr. Ronnie Richmond	Mr. and Mrs. Darrell Richards
Mr. Mike Gray	Mr. David Cook
Mr. Glen Gilbreath	Mr. Ronnie Riddle

**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. Rick Jahn - San Patricio-Aransas Counties Agricultural Extension Agent  
 Dr. Larry Falconer - Extension Economist - Management, Texas A&M University

*Panel Participants*

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

**RICE FARMS****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 Waligura

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 M

r. 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 Yarbrow

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. Jack Prince - President, Dairyman's Cooperative Creamery Assoc.

*Panel Participants*

Mr. Dave Rebeiro	Mr. Phillip Rebeiro
Mr. Bill Van Beek	Mr. Bob Wilbur

**New Mexico***Facilitator*

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

*Panel Participants*

Mr. Brad Bouma	Mr. Mike McClosky
Mr. Joe Gonzalez	Mr. Von Hilburn
Mr. Tony Bos	Mr. Dean Harton
Mr. Mark Reischman	

**Washington***Facilitator*

Mr. David C. Grusenmeyer - Professor and Extension Dairy Specialist, Washington State University

*Panel Participants*

Mrs. Star Hovander	Mr. Ron Bronsema
Mr. Keith Boon	Mr. Jim Heeringa
Mr. Rod DeJong	Mr. & Mrs. Pete DeJager
Mr. Dick Bengen	Mr. Greg McKay
Mr. Ed Pomeroy	Mr. Dave Buys

**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. Reagon Hatch
Mr. Alan Gerratt	Mr. Hank Hafliger
Mr. Randy Tolman	

**Texas - Central***Facilitator*

Mr. Joe Pope - Erath County Agricultural Extension Agent

*Panel Participants*

Mr. Lane Jones	Mr. Robert Ervin
Mr. Leonard Moncrief	Mr. Bob Strona
Mr. Jack Parks	Mr. Jake Van Vliet
Mr. Owen Sieperda	Mr. Brian Parish

**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	

**Missouri***Facilitator*

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

*Panel Participants*

Mr. John Mallonee	Mr. Allen Sulgrove
Mr. & Mrs. Doug Owen	Mr. Dan Clemens
Mr. & Mrs. Freddie Martin	Mr. John Atkinson
Mr. Wayne Whitehead	Mr. Joe Peebles
Mr. Larry Winfree	

**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. Keith Rucks	Mr. Brad Hester
Mr. Louis Shiver	Mr. Kevin Jackson
Mr. Bill Shaw	Mr. Boyd Rucks
Mr. Edward Thomas	Mr. Everett Kerby
Mr. Glynn Rutledge	Mr. Tommy Rucks
Mr. Rodney Land	

**Georgia***Facilitator*

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

*Panel Participants*

Mr. Carlton McMichael	Mr. Lamar Anthony
Mr. Mike Rainey	Mr. Earnest 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. David Allen	Mr. Joe Bonlender
Mr. Larry Engel	Mr. Glenn Armstrong
Mr. Ronald Miller	Mr. Doug Hodorff
Mr. Pete Knigge	Mr. Fred Kasten
Mr. Edwin Davis	Mr. Jerome Schmidt
Mr. Dean Hughes	Mr. Carl Theonis
Mr. Jeff Bradley	Mr. Mike Bradley
Mr. Pat Brennand	Mr. Ben Hughes
Mr. Jeff Meulmans	Mr. Bob Staudinger

**New York - Western***Facilitator*

Mr. Jason Karszes - Cornell Cooperative Extension Service

*Panel Participants*

Mr. Gary Van Slyke	Mr. Dick Popp
Mr. Willard DeGolyer	Mr. Bill Fitch
Mr. George Mueller	Mr. John Emerling
Mr. Peter Dueppengiesser	Mr. Kent Miller
Mr. John Mueller	

**New York - Central***Facilitator*

Dr. Wayne Knoblauch - Professor, Cornell University

*Panel Participants*

Mr. Gary Mutchler	Mr. Ron Space, Jr.
Mr. Bill Head	Mr. Mike Learn
Mr. David Shurtleff	Mr. Dale Van Erden
Mr. & Mrs. Tom Brown	

**Vermont***Facilitator*

Dr. Rick Wackernagel - Professor, University of Vermont

*Panel Participants*

Mr. Steve Hurd	Mr. Kim Harvey
Mr. Hank Nop	Mr. Everett Maynard
Mr. Steve Ovellette	Mr. Stanley Scribner
Mr. Ted Foster	Mr. Roger Rainville
Mr. Reg Chaput	Mr. Paul Gingue
Mr. Onan Whitcomb	Ms. Sally Goodrich
Mr. Mark Rodgers	

**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 McClenny	Mr. John Dawson
Mr. Ronald Parks	Mr. R.H. Mohesky
Mr. David Sanderson	