Staff Papers Series

Staff Paper P90-30

April 1990

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RESULTS OF THE 1989 REGIONAL FARM SURVEY FOR MINNESOTA

by

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*Olson is an assistant professor and Mikesell is a research assistant in the Department of Agricultural and Applied Economics, University of Minnesota, Twin Cities. This research was conducted as part of Minnesota Experiment Station Project No. 14-22 as a contributing project to the Regional Project NC-184 entitled "Rural Development Strategies to Mediate Farm Crisis Impacts on Families and Communities," and was supported in part by the North Central Regional Center for Rural Development. The authors are indebted to Paul Lasley and the NC-184 committee for the development of the survey instrument and initial report outline and to Carroll Rock, George House, Roger Binning, and their staff at Minnesota Agricultural Statistics Service for advice on and mailing of the survey.

Staff Papers are published without formal review within the Department of Agricultural and Applied Economics.

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While much public attention has focused on the farm crisis, little scientific inquiry has been directed at understanding its long-term consequences. Extensive media coverage has focused on the tragedies of the crisis, the distress associated with economic hardship, and the farmers' protest against the "causes" of the crisis. Beyond these journalistic accounts of the personal stories of loss, there is very little documentation about the extent or severity of the farm crisis and how these experiences have altered farm families' behaviors and attitudes. Some national and state surveys of farm operators have addressed the needed financial adjustments such as debt-asset ratio, cash flow analysis and lender restructuring options (Melichar, 1984; Jolly, et al, 1985). Other more limited studies have focused on case studies of the farm crisis (Heffernan and Heffernan, 1986; Salamon and Davis-Brown, 1986). Still other studies have examined the severity of the farm crisis within individual states (Leistritz, 1986; Bultena, et al, 1986). However, a regional assessment or perspective of the consequences of the farm crisis was difficult, given that little was known about how economic hardship has affected longer-term adjustments in farm operations or its influence on farm family functioning and individual well-being.

To provide more knowledge of how farm families have been affected, a regional study was conducted in the twelve North Central States. These states included Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, Ohio, North Dakota, South Dakota, and Wisconsin. This report summarizes data collected from a sample of Minnesota farm families as part of the larger study. The survey was conducted through the cooperation of the University of Minnesota and the Minnesota Agricultural Statistics Service.

The purpose of the survey was to:

1. Identify what adjustments farm families made during the 1980s in response to the farm crisis,

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- 2. Identify information and educational needs of farm families, and
- 3. Assess farm families opinions about several important agricultural and rural development issues.

<u>Methodology</u>

In February, 1989, a statewide random sample of 700 farm operators and spouses was contacted. A packet of two questionnaires were sent--one for the farm operator (Appendix C) and the other for the spouse (Appendix D). One set of questions were answered by both operator and spouse; other questions were answered only by the operator or by the spouse.

There were 275 operator surveys returned for a response rate of 39 percent and 245 spouse surveys returned for a response rate of 35 percent. Of these, 229 were matched questionnaires for both the spouse and the operator for a response rate of 33 percent. The distribution of responses among Minnesota counties is shown in Figure 1.

Nonresponse and Weighting

As the response rate for this survey was only 39 percent, the possibility of nonresponse bias in the survey responses requires some consideration.²

Nonresponse bias can be of two forms--the first case occurs when the distribution of the survey respondents by selected characteristics is different from the distribution in the population with these same characteristics. A weighting procedure may be used so the survey responses will reflect the population proportions. This weighting procedure is justified only if the individual's characteristics affect their behavior and the responses to the survey questions.

To correct for the nonresponse bias arising from the above case, two characteristics of the farm population were chosen for comparison with the survey respondents: age of the farm operator and gross farm sales (a measure of farm size). Data for the farm population was obtained from the 1987 Census of Agriculture. The distribution of the survey respondents by age and gross farm sales was found to be somewhat different than the farm population, thus indicating a bias in the survey results. The survey data was then adjusted to reflect the characteristics of the farm population.

The weighting matrix is reported in Appendix A Table 1. Differences in the distributions of the unweighted and weighted observations for selected characteristics can be found in Appendix A Tables 2 and 3.

 $^{^2}$ This section follows the procedures used by Saupe and Eisenhauer (1989).

The second type of bias arises if the nonrespondents would answer differently than respondents with the same characteristics. In this case information about the nonrespondents is needed to correct for the bias. In order to gain this information 28 operator and 35 spouse nonrespondents were interviewed by telephone and asked several of the questions from the mail survey. Appendix B provides a discussion of comparisons made.

Respondents' Characteristics

The average ages of the farm operator and spouse in the survey were 48.5 and 45.9 (Table 1). The average age of farm operators in the 1987 Minnesota Census of Agriculture was also 48.5. The two biggest age groups as a percentage of the total were the 25-34 and 35-44 year old group; these were the largest group in the 1987 Census also. Almost nineteen percent of the surveyed operators were less than 35 years old; 12.4 percent were over 65. The age distribution of the spouses was slightly younger reflecting the younger average.

Thirty-two percent of the farmers in the survey had become a farm operator in the decade of the 1970s (Table 2). The percentage per decade declines farther back in time with only 3.4 percent of the respondents starting earlier than 1940. The median year for starting was 1968. Only sixteen percent of the respondents started farming in the decade of the 1980s; this smaller percent reflects the financial troubles of those years which probably discouraged some from starting farming, did not allow others to start farming, and caused others to start and stop within that decade.

On average, operators had 12.2 years of education; that is, on average operators finished high school and a small amount of posthigh school education. The spouses averaged 12.8 years of education. 14.9 percent of the operators finished eighth grade but did not go on for further schooling. Forty-nine percent had between 9 and 12 years with 79.7 percent of the operators having finished school. Thirty-two point five percent had some college education with 13.8 percent finishing college. Almost 3 percent of the operators had done graduate work. In general, the spouses had received more education; 94 percent had finished high school and 14.2 percent had finished college.

Average net family income from all sources for 1988 were in the lower range of those specified. Fully two-thirds of the operators reported income below \$30,000. Almost half of the farm operators reported their net family income to be between \$10,000 and \$30,000. Less than 5 percent had income over \$70,000.

Sixteen percent of the sample farms had average gross farm sales of less than \$10,000 compared to 31 percent of the population (Table 3). Just under half of the surveyed farms and the population had gross farm sales in the \$10,000 to \$99,999 range. Thirty-five

percent of the survey farms had sales of \$100,000 or more compared to 19.3 percent of the population. 2.7 % of the surveyed farms had sales of \$500,000 or more compared to 1 percent of the population.

In terms of acreage, the sample farms were larger than the population of all farms. The average size farm was 441 acres in the sample of operators compared to 312 acres in the 1987 Census (Table 3). Only 3.8 percent of the survey farm were less than 50 acres compared to 16.5 percent in the population. 8.6 percent of the farms in the sample had over 1000 acres compared to 5 percent in the population.

The proportion of labor supplied by the family changed very little between 1984 and 1988 (Table 4). Over 90% of the labor was supplied by the family on average. Less than 3 percent of the respondents supplied less than 50% of the labor.

Farming Intensity and Diversification

The average farm had real estate assets valued at \$226,685 and nonreal estate assets of \$105,634 (Table 5). Forty-five percent of farmers had real estate assets valued at less than \$200,000. The same percentage had non real estate assets of less than \$60,000. Only eleven percent of farms had real estate valued at more than \$500,000.

Thirty five percent of farms had real estate debt of more than \$100,000 and sixteen percent of farms had non real estate debt of more than \$100,000. The average real estate debt was \$99,329 and non real estate debt of \$61,900. Net worth was calculated for each of the 187 farms providing the necessary information. Almost eight percent of the farms were insolvent, that is with total debt exceeding total assets. Sixteen percent had net worth of less than \$100,000 while twenty seven percent had net worth of more than \$250,000. The average calculated net worth was \$213,519.

The average farm contained 441 acres of land up from 405 in 1984 (Table 6). The average owned acreage was 280 acres and the average rented acreage was 294 acres. Twenty-six respondents leased an average of 105 acres to other farmers. (These acreages were calculated by using the number of responses in each category. Thus the total average will not equal the owned plus rented minus rented out average.) Twenty-eight percent of farms were less than 180 acres in size; twenty-nine percent had more than 500 acres. Compared to 1984, owned and rented acreages increased only slightly.

Total cropland increased between 1984 and 1988 even though the introduction of the conservation reserve program (CRP) removed an average of 71 acres from production on 57 farms (Table 7). Pasture, hay, and timber land remained unchanged from 1984 to 1988.

Corn production decreased slightly and soybean production remained essentially the same between 1988 and 1984 (Table 8). The average farm had 134 acres of corn and 149 acres of soybeans in 1988. Wheat, oats and other crop production also remained essentially unchanged.

Livestock production also changed very little (Table 9). The average farm had 78 head of feeder cattle, 28 head of beef cows and 49 head of dairy cows in 1988. Thirty-nine percent of the farms having beef cows had less than 20 head while only six percent of farms with dairy cows had herds this small. Forty-two farms had an average of 87 head of sows in 1988. This was an increase of 17 head from 1984. Almost 65% of the farms with swine had more than 75 sows.

There were twelve farms with ewes in 1988 with an average of 37 head. The number of ewes ranged from 89 head to a single ewe. Eighteen farms reported owning laying hens in 1988. This ranged from 5 hens to 1700 hens with an average of 177 layers. There were only two farms with turkeys. One being a large farm with 10,000 birds.

Local Services, Facilities, and Economic Conditions

One series of questions asked for the farm operators' opinions on whether local services, facilities, and economic conditions had changed in the past five years and how they had changed if they had. Although there is a difference of opinion, a majority of the operators felt that these had remained the same over the past five years: quality of schools, health care services, police and fire protection, banking services, and opportunities for entertainment and recreation (Table 10). A majority of the operators felt that these had improved or remained the same: child care facilities, shopping facilities, and adult education opportunities. Of the services and facilities, job opportunities was the only category in which a plurality (42%) felt that it had gotten worse over the past five years.

Of the four financial condition points, a majority felt that the financial condition of farmers and of agribusiness firms had gotten worse although there was a difference of opinion on this point also. A majority of the operators said that the financial condition of lenders had either remained the same or gotten worse. When asked about the financial condition of their own farms, the operators were fairly evenly divided between improved, remained the same and gotten worse.

Quality of Life

Although a plurality of operators and spouses (45 and 38 percent, respectively) felt that their family finances have become better during the past five years, 28 percent of the operators and 35 percent of the spouses felt that their finances had gotten worse (Table 11). However, finances are not the total picture of a

family's quality of life; a much smaller proportion (16 and 17 percent, respectively) felt that their quality of life had become worse during the past five years. Eighty-three percent of both operators and spouses felt that the quality of life of their family had remained the same or become better during the past five years. This is much lower than the proportion that said finances had become worse.

Considering their farm's overall financial situation, most farms felt that the likelihood that they will continue to farm for at least the next five years has remained the same. Over a third of the operators and a quarter of the spouses said that the likelihood had increased. Seventeen percent of both the operators and spouses said the likelihood had decreased. This latter proportion is very similar to the proportion that felt that quality of life has decreased but is much lower than the proportion that said finances had decreased. Thus, the likelihood of continuing to farm appears to be more connected to the perception of quality of life than the single measure of financial condition.

Compared to farmers in their area, most operators and spouses (48 and 52 percent, respectively) felt that their financial situation had remained the same. Forty and 32 percent, respectively, felt that their situation had become better than their neighbors during the past five years. A smaller group (12 and 16 percent, respectively) felt that their financial situation had become worse.

When asked whether their satisfaction with farming had changed during the past five years, most operators and spouses said it had remained the same (43 and 49 percent, respectively). The rest of the respondents were essentially split between whether their satisfaction had become better or worse with a few more indicating that it had become worse. For example, 27 percent of the operators said their satisfaction had become better while 29.5 percent said it had become worse. Twenty-three percent of the spouses said their satisfaction had become better compared to 28 percent which said it had become worse.

Three questions dealt with how farmers related with their neighbors and in their community. While most of the operators (49%) and a majority of the spouses felt that the amount of "neighboring" and "helping" had remained the same over the past five years, the proportion of operators and spouses whom felt it had become worse was more than double (or not quite double) the proportion whom felt it had become better. A large majority of both operators and spouses (70% and 72%, respectively) felt that the things they had in common with people in their community had remained the same over the past five years; the remainder of the responses were divided almost evenly between the commonality becoming better or worse.

Farm Family Adjustments

There were many potential adjustments for farm families to make to respond to financial needs. However, a majority of families (as reported by the operator) did not make any of the adjustments listed in the questionnaire because of financial need in the past five years (Table 12). The one exception to this is that a majority (58%) did postpone major household purchases. However, several adjustments were used by many families: used savings to meet living expenses (48%), cut back on charitable contributions (48%), changed transportation patterns to save money (42%), decreased money saved for children's education (40%), changed food shopping or eating habits to save money (38.5%), spouse has taken off-farm employment (38.5%), operator taken off-farm employment (35%), postponed medical or dental care (34%), sold possessions or cashed in insurance (32%), and reduced household utility use (30%). Over 25 percent (but less that 30%) said they had cancelled or reduced medical insurance coverage, purchased more items on credit, and fallen behind in paying bills.

More than a third of the operators indicated that either they, their spouse, or both had taken off-farm employment because of financial need during the past five years (Table 11). In 1988, 36 percent of the operators worked an average of 36 hours per week in off-farm employment; most of them worked 40 hours per week or more (Table 13). Fifty-one percent of the spouses indicated that they worked off the farm for an average of 31.5 hours per week with almost half of them working 40 hours or more.

Changes in Farm Operation

Between 1984 and 1988, 77 percent of the operators said they had no change in the number of acres owned; 16 percent said they had decreased and 7 percent had purchased more land (Table 14). Just under half of the operators had not changed the amount of acres rented; 30 percent had increased rented acreage while 21 percent had decreased rented acreage. These changes resulted in almost half of the farms remaining the same size in terms of total acres operated while a third of the farms had increased in size.

One adjustment made by many operators was a decrease in the number of hours worked on their farms. Ninety-four percent of the operators reported that this had decreased. Only 5 percent had increased their hours worked and one percent had not changed.

³When interpreting these adjustments or lack of adjustment, the reader is reminded that this survey went to farmers in 1989. That is, it went to farmers who had survived the 1980s and were still farming or had started farming since the major financial crunch of the 1980s.

Sixty-nine percent of the operators reported that the same amount of family labor was being used on the farm in 1988 as in 1984. Twenty percent of the farms had increased family labor while 12 percent had decreased.

A majority of farmers made these changes in how they managed their farm between 1984 and 1988: paid closer attention to marketing (79%), postponed a major farm purchase (70%), kept more complete financial records (61%), reduced short-term debt (60.5%), and reduced long-term debt (59%) (Table 14). Other changes made by a large number of farmers were: bought crop insurance (48%), shared labor or machinery with neighbors (44%), reduced expenditures for hired help (43%), diversified their farm by raising livestock (37%), and sought off-farm employment (33%).

When the operators looked forward to 1992, a majority said they would pay closer to marketing (69%), reduce both long-term and short-term debt (56% and 53%, respectively), and keep more complete financial records (61%). Other changes which were selected as important were postponing major farm purchase, sharing labor and machinery, reducing expenditures for hired help, buying crop insurance, and diversifying by raising livestock. Changes which were being considered but were not as definite included diversifying by adding crops, buying additional land, renting more acres, using the future markets to hedge prices, and seeking off-farm employment. Almost a third of the operators said they were considering quitting farming in the next five years.

Participation in Government Programs

There are a number of government programs and laws designed to help farmers. Their participation and evaluation of these programs varied. Four programs had the highest participation rates: the federal government commodity programs (76%), the 1988 Drought Assistance Act (69%), Federal all-risk crop insurance (38.5%), and the conservation reserve program (CRP; 30%) (Table 15). Farmers had not participated in the other programs listed to the same extent as they had in these just named.

Even in these heavily participated programs, the effectiveness of these programs was evaluated differently. Most of those who participated said the commodity programs were either a lot of help or some help; only 3 percent said they had participated and found the commodity programs to be of no help. Even after all these years of information and public exposure, there were still 1.6 percent of the respondents who claimed they did not know about the commodity programs. Sixty-two percent of the operators had participated in the 1988 Drought Assistance Act and felt the program had helped them either a lot or some. Thirty percent of the farmers did not participate in the drought program because it was not needed or because they did not qualify. Twenty-seven percent had participated

in the Federal all-risk crop insurance and felt that it had been of help, but 12 percent felt it had not been helpful. Interestingly, even in February, 1989, after the drought of 1988, 51 percent of the operators did not participate in the insurance program because they did not think it was necessary. Forty-five percent felt that the CRP was not needed and did not participate. In the other programs with lower participation levels, many of the operators who had participated indicated that the programs had been of no help. A majority said they did not participate because the program was not needed.

Information and Training Needs

The operators were asked to indicate their need for information and/or training in several areas in order to continue farming in the next five years. By their responses, there is not a strong showing of need in any area; the needs are spread between several categories (Table 16). For 6 of the 9 areas listed, about a third of the operators said they had a moderate need for information and/or training. Information and training on new technologies was needed at some level by 72.5 percent; 31.8% said this area was a high or very high need. Over half of the operators said the need for information and training was low or not needed in these areas: processing farm products on farm before selling (69%), diversification of the farm (51%), and bookkeeping and financial systems (50%).

Farm Spouses' Duties

There are no surprises in the duties listed by the spouses. Ninety-two point six percent of the spouses say they always do household tasks and/or child care; another 5 percent say they do these task sometimes (Table 17). The care of a vegetable garden or animals for family consumption was always done by 64 percent and sometimes by another 25 percent. Bookkeeping and maintaining records was another task done always by 43.6 percent with another 33 percent doing it sometimes. Thirty percent of the spouses always ran farm errands with 64 percent saying they did this sometimes. Working at an off-farm job was also done by 30 percent of the spouses all the time and 40.5 percent sometimes. Sixty-five percent of the spouses said they did field work at least sometimes. Duties which were not done or never performed by a majority of the spouses were: marketing of products (80%), purchasing of major supplies and equipment (71%), and supervising others (58%).

A majority of the spouses said that the time on each of the duties listed had stayed the same over the past five years except for the milking and caring for farm animals (49%). Over twenty percent of the spouses said their time had increased on these duties: working at an off-farm job (28%), bookkeeping and maintaining records (24%), and doing household tasks and/or child care (21%). Over thirty percent of the spouses said their time had decreased on these duties: milking or caring for farm animals (32%) and field work

(30%). Twenty-one percent of the spouses said they had decreased their time spent working at an off-farm job or taking care of a garden or animals for family consumption.

Family Decision-Making Behavior

Buying major household appliances was a decision that 79 percent of the spouses surveyed said they did jointly with their partner (Table 18). This was a much higher percentage than the 60 percent that said they made a joint decision to buy or sell land. Renting more or less land was a joint decision for 49 percent of the spouses. Buying major farm equipment was said to be done by the spouses's partner in 51 percent of the spouses' responses and in a joint decision in 45 percent. The decisions of when to sell products and whether to try a new practice were done with the partner in 57 percent of the responses.

Life Pressures and Coping Strategies

From the spouses' responses two pressures can be seen as the most often experienced. Twenty-seven of the spouses said they had daily problems in balancing work and family responsibilities; 48 percent said they had this pressure occasionally (Table 19). One fourth of the spouses said they felt the pressure of lacking control over weather and commodity prices on a daily basis; 55 percent felt this occasionally.

The other pressures were felt by a majority of the spouses at least occasionally with two exceptions. A majority of the spouses have almost never felt they had insufficient support in farm or family duties. Also, over three-fourths of the spouses either have almost never had difficulty with child care arrangements or the pressure of child care does not apply to them.

It is also interesting to note that in two instances the responses are almost evenly divided between feeling pressure daily or occasionally versus almost never or not applicable. These two pressures are: no farm help or loss of help when needed and indebtedness and debt-servicing problems.

When faced with the pressures just discussed, there are several coping strategies that can be used to deal with the pressure. The one coping strategy which was used "a great deal" by 36 percent of the spouses was "participating in church activities" (Table 20). Participating in church activities was also used "quite a bit" by 25 percent of the spouses. Only two other strategies were used "a great deal" or "quite a bit" by a majority of the spouses were "making a plan of action and following it" (53%) and "noticing people who have more difficulties in life than I do" (52%). "Reminding myself that for everything bad about farming, there is also something good" was also used by many spouses. Less than 20 percent used eating, drinking, etc.; refused to think about it; or kept problems a secret.

Less than 30 percent sought support from a friend, relative, or minister, and less than 10 percent ever talked to a counselor.

Membership in Organizations

Of the organizations listed, only the farm groups, such as Farm Bureau, National Farmers Organizations, Grange, etc., had a majority of the operators who were current members or had been members (Table 21). These groups were the only ones listed by more than 30 percent of the spouses which were or had been members. Other organizations which were listed as having more than 30 percent of the operators as members were farm supply cooperatives, commodity groups, local governing boards, and marketing cooperatives.

Table 1. Comparison of the age distribution of operators and spouses between respondents and the total farm population in Minnesota

	Sample of Operators	Sample of Spouses	Operators in Farm Population ¹
Average Age	48.5	45.9	48.5
Age		Percent	
Less than 25	0.8	2.5	2.8
25-34	18.7	19.2	16.9
35-44	23.0	25.4	21.7
45-49	10.1	12.1	10.5
50-54	10.6	13.3	11.0
55-59	10.1	10.4	11.9
60-64	14.3	10.4	11.0
65-69	6.0	4.6	7.1
70 or older	$\frac{6.4}{1008}$	$\frac{2.1}{100}$	$\frac{7.1}{100}$

 $¹_{1987}$ Census of Agriculture, (U.S. Dept. of Commerce).

Table 2. Experience, education, and net family income of survey respondents

Year Became a Farm		
Operator	<u>Operators</u>	Spouses
	_	
Median 1968	Per	cent
Earlier than 1940	3.4	
1940-1949	10.4	
1950-1959	17.2	
1960-1969	20.9	
1970-1979	32.1	
1980-1989	16.0	
Average Years of Education	12.2	12.8
	Pe	rcent
1-8 years	15.7	3.4
9-12 years	49.1	58.7
13-16 years	32.5	35.8
17+ years	2.7	2.1
<u> </u>	100%	100%
Average Net Family Income Range		
morage was ramely meems mange	Per	cent
Loss	3.4	
\$1\$9,999	18.8	NA
\$10,000\$19,999	22.6	NA
\$20,000\$29,999	23.8	NA
\$30,000\$39,999	11.9	NA
\$40,000\$49,999	7,7	NA
\$50,000\$59,999	5.0	NA
\$60,000\$69,999	2.3	NA
Over \$70,000	<u>4.6</u>	<u>_NA</u>
	100%	NA

Table 3. Comparison of respondents' farm characteristics to farm characteristics of total farm population in Minnesota

	Sample of Operators	Farm Population ¹		
Average Gross Farm Sales Range	Per	cent		
Less than \$10,000	16.2	31.4		
\$10,000-39,999	20.0	25.9		
\$40,000-99,999	28.5	23.4		
\$100,000-249,999	25.8	15.1		
\$250,000-499,999	6.9	3.2		
\$500,000 or more	<u>2.7</u> 100%	$\frac{1.0}{100}$		
Average Size Farm	441	312		
	101			
19 acres	0.0	5.4		
1049 acres	3.8	11.1		
50179 acres	24.4	19.3		
180499 acres	42.5	36.4		
500999 acres	20.7	12.7		
1,000+ acres	<u>8.6</u> 100%	<u>5.1</u> 100%		

 $¹_{1987}$ Census of Agriculture, (U.S. Dept. of Commerce).

Table 4. Percent of farm labor by family

	1984 Perc	1988 ent
Average	92.3	92.6
1049 5089 9099 100	2.3 15.0 25.4 <u>57.3</u> 100%	2.7 12.5 27.0 <u>57.8</u> 100%
Respondents	260	263

Table 5. Farm assets, debts, and net worth for 1988

	Real Estate Assets	Non Real Estate Assets	Non Real Estate Debt	Non Real Estate Debt
Average	226,685	105,634	99,329	61,900
<\$20,000	0.9	13.5	12.3	31.8
20,00039,999	4.5	15.0	16.3	20.9
40,00059,999	4.1	16.5	16.2	17.1
60,00079,999	8.6	7.0	10.4	10.0
80,00099,999	10.4	6.5	9.7	4.7
100,000-124,999	9.5	13.0	7.8	7.0
L25,000-149,999	7.2	4.0	3.9	1.5
150,000-199,999	14.1	8.0	10.4	3.1
200,000-299,999	18.1	9.5	7.8	2.3
300,000-499,999	11.7	6.5	4.6	0.8
500,000+	10.9	0.5	0.6	0.8
Respondents	221	200	154	129

	Net Worth
Average	213,519
<\$0 049,999 50,00099,999 100,000-149,999 150,000-199,999 200,000-249,999 250,000-499,999 500,000-749,999 750,000+	7.5 8.5 20.4 13.3 12.9 10.1 15.5 6.5
Respondents	187

Table 6. Farm size, tenure, and acreage distribution for 1984 and $1988^{\scriptsize 1}$

Year: 1988	Total Farm	01	Danta	Leased
	Size	Owned	Rented	Out
Average	441	280	294	105
Acres				
19	0.0	1.2	1.7	3.8
1049	3.8	6.9	11.6	38.5
5099	6.0	10.9	11.6	3.9
100-179	18.4	25.9	24.8	42.3
180-339	27.4	29.6	24.9	7.7
340-499	15.1	11.3	9.2	3.8
500-999	20.7	11.4	11.6	0.0
1000+	<u>8.6</u>	2.8	<u>4.6</u>	<u>0.0</u>
	100%	100%	100%	100%
Respondents	246	247	173	26
Year: 1984				
Average	405	273	270	121
Acres				
19	0.4	2.2	0.6	0.0
1049	4.6	7.6	10.6	25.0
5099	6.1	9.3	14.7	20.0
100-179	18.8	25.8	27.0	35.0
180-339	28.3	30.2	25.9	20.0
340-499	16.9	12.0	6.5	0.0
500-999	19.2	10.2	11.8	0.0
1000+	<u>5.7</u>	2.7	<u>2.9</u>	<u>0.0</u>
	100%	100%	100%	100%
Respondents	261	225	170	20

 $^{^{1}\}mathrm{These}$ averages were calculated by using the number of responses in each category. Thus, the total average will not equal the owned plus rented minus rented out average.

Table 7. Cropland acreage by use for 1984 and 1988

Year: 1988	Cropland	Pasture & Hay	Timber	CRP	
Average	370	72	52	71	
Acres					
19	0.8	7.2	21.2	10.5	
1049	8.1	40.4	45.1	43.9	
5099	13.5	22.9	19.3	17.5	
100-179	19.5	22.3	10.6	21.1	
180-339	25.2	6.6	0.9	5.2	
340-499	8.9	0.6	2.9	1.8	
500-999	14.7	0.0	0.0	0.0	
1000+	<u>9.3</u>	0.0	<u>0.0</u>	<u>0.0</u>	
	100%	100%	100%	100%	
Respondents	246	166	104	57	
Year: 1984			· · · · · · · · · · · · · · · · · · ·		
Average	357	74	53	n/a ¹	
Acres					
19	0.8	5.8	19.2		
1049	8.9	40.7	46.5		
5099	13.6	22.5	18.1		
100-179	21.2	22.6	12.2		
180-339	22.4	7.8	4.0		
340-499	10.2	0.6	0.0		
500-999	16.5	0.0	0.0		
1000+	<u>6.4</u>	0.0	<u>0.0</u>		
	100%	100%	100%		
Respondents	236	155	99		

 $^{^{1}\}mathrm{The}$ Conservation Reserve Program (CRP) was not available in 1984.

Table 8. Major crop acreage for 1984 and 1988

				· · · · · · · · · · · · · · · · · · ·	
Year: 1988	Corn	Soybeans	Wheat	Oats	
Average	134	149	201	31	
Acres					
19	3.5	2.0	1.4	7.6	
1049	24.0	22.2	29.7	77.1	
5099	25.0	23.5	12.1	11.9	
100-179	24.0	22.2	14.9	2.6	
180-339	17.0	20.3	25.7	0.8	
340-499	2.5	5.2	6.7	0.0	
500-999	3.5	3.9	8.1	0.0 _0.0	
1000+	<u>0.5</u> 100%	0.7 100%	1.4 100%	100%	
Respondents	200	153	74	118	
Year: 1984					
Average	141	147	196	29	
Acres					
19	2.0	1.5	1.4	4.2	
1049	22.2	23.5	31.5	82.4	
5099	25.3	20.5	13.7	10.0	
100-179	24.2	25.7	17.8	3.4 0.0	
180-339	20.7	20.5	21.9 2.7	0.0	
340-499 500-999	2.1 2.5	4.5 3.0	9.4	0.0	
1000+	1.0	_0.8	1.4	0.0	
1000+	100%	100%	100%	100%	
Respondents	198	132	73	119	

Table 9. Livestock herd sizes for 1984 and 1988

Year: 1988	Feeder Cattle	Beef Cows	Dairy Cows	Sows
Average	78.3	27.6	49.3	87.2
No. of Head				
110	10.5	23.3	3.0	7.1
1019	22.4	16.2	3.0	14.3
2029	11.8	23.3	11.9	4.8
3039	17.1	18.6	19.4	2.4
4049	7.9	4.6	23.9	4.7
5074	17.1	7.0	23.9	26.2
7599	2.7	2.2	10.4	11.9
100-499	5.2	2.2	4.5	26.2
500+	<u>5.3</u>	0.0	<u>0.0</u>	2.4
	100%	100%	100%	100%
Respondents	76	45	67	42
Year: 1984			No. 10 10 10 10 10 10 10 10 10 10 10 10 10	
Average	73.1	27.6	48.7	69.8
No. of Head				
110	12.9	23.3	2.9	8.6
1019	20.0	16.2	4.3	13.8
2029	16.5	23.3	13.1	13.8
3039	13.0	18.6	18.8	13.8
4049	4.7	4.6	24.7	6.9
50 74	12.9	7.0	26.1	10.3
7599	5.9	4.7	4.5	10.4
100-499	9.4	2.3	5.6	20.7
	<u>4.2</u>	0.0	0.0	<u> 1.7</u>
500+			1000	100%
500+	100%	100%	100%	1004

Table 10. Farm operators' opinions on local services, facilities, and economic conditions

How have the following services, facilities and economic conditions changed in your community over the past five years? Would you say they have generally "improved," "remained the same," or "gotten worse?"

	Improved	Remained the Same	Gotten WorsePercen	<u>Uncertain</u> t	Not <u>Available</u>	Number of Respondents
Quality of schools	21.0	50.0	23.5	4.8	0.7	272
Job opportunities	13.2	39.0	42.3	4.4	1.1	272
Health care services	21.0	56.1	19.2	3.0	0.7	271
Child care facilities	23.4	47.2	7.4	19.0	3.0	269
Shopping facilities	40.9	35.7	23.0	0.4	-	269
Police & fire protection	29.4	65.4	3.7	1.5	-	272
Adult education opportunities	43.2	48.7	3.7	3.7	0.7	271
Banking services	22.6	56.3	21.1	-	-	270
Opportunities for entertainment and recreation	18.8	57.6	19.2	3.3	1.1	271
The current financial condition of farmers has	17.7	18.5	60.1	3.7	-	271
The current financial condition of agribusiness firms in your area has	10.3	32.4	51.5	5.1	0.7	272
The current financial condition of lenders in your area has	15.2	42.7	30.5	11.2	0.4	269
Your farm's financial condition has	31.3	39.3	27.6	1.1	0.7	272

Table 11. Farm operator and spouse opinions on quality of life in their community

Please circle the response that comes closest to your opinion about the quality of life in your community.

	Become Better					Become Worse		of nses
	op^1	sp ²	Op	Sp	Op	Sp	Op	Sp
			-Per	cent ³				
During the past five years, <u>your</u> family finances have	44.7/3	8.0	27.1,	/26.9	28.2/	35.1	273/	′242
During the past five years, the quality of life for your family has	42.2/3	7.6	41.4,	/45.0	16.4/	17.4	268/	′242
In the next five years the overall economic condition of farmers will	26.6/2	5.1	29.6	/37.4	43.8/	/37.4	267/	235
Considering your farm's overall financial situation, the likelihood that you will continue to farm for at least the next five years has	34.7/2	5.7	48.1,	/57.7	17.2,	16.6	268,	′ 241
Compared to farmers in your area, your financial situation has	40.0/3	2.1	48.1	/51.7	11.9,	/16.2	270,	/240
All things considered, your satisfaction with farming has	27.3/2	3.0	43.2	/49.0	29.5/	/28.0	271,	/239
Has "neighboring" over the past five years	15.4/1	4.1	49.1	/55.2	35.5,	/30.7	273,	/241
Has neighbors helping each other over the past five years	18.5/1	.2.9	49.3	/58.8	32.2,	/28.3	270,	/240
Do you believe the things you have in common with people in your community has	15.7/1	.4.9	70.4	/71.5	13.9,	/13.6	274,	/242

 $¹_{Operator}$

 $^{^{2}\}mathtt{Spouse}$

 $^{^{3}}$ The %'s are calculated with the missing cases omitted.

Table 12. Farm family adjustments reported by operator as made in 1985-1989 because of financial need

Has your family made any of the following adjustments because of financial need in the past five years?

		<u>Yes</u> Per	No cent	Number of Respondents
a.	Used savings to meet living expenses	48.2	51.8	274
b.	Sold possessions or cashed in insurance	32.1	67.9	274
c.	Purchased more items on credit	26.6	73.4	274
d.	Postponed major household purchase(s)	58.2	73.4	274
e.	Let life insurance lapse	15.4	41.8	273
f.	Cut back on charitable contributions	47.6	52.4	275
g.	Changed food shopping or eating habits to save money	38.5	61.5	275
h.	Changed transportation patterns to save money	41.5	58.5	275
i.	Reduced household utility use, such as electricity, telephone	29.8	70.2	275
j.	Postponed medical or dental care to save money	34.2	65.8	275
k.	Cancelled or reduced medical insurance coverage	28.5	71.5	274
i.	Borrowed money from relatives or friends	16.7	83.3	275
m.	Fallen behind in paying bills	25.3	74.7	273
n.	Decreased money saved for children's education	40.4	59.6	265
ο,	Children have postponed education	8.5	91.5	260
p.	Spouse has taken off-farm employment	38.5	61.5	265
q.	You have taken off-farm employment	35.4	64.6	271

Table 13. Off-farm employment of operator and spouse in 1988

		Oper	ator	Spc	use
		Number	Percent	Number	Percent
		•			
19	Hours per week	8	8.2	10	8.1
1019	Hours per week	9	9.1	14	11.3
	Hours per week	7	7.1	18	14.5
	Hours per week	7	7.1	22	17.7
40+	Hours per week	67	68.4	60	48.4
Average	e	36.4		31.5	
_	of respondents	98		124	

10u Farm operators' report of risk reduction behaviors for 1984-1988 and behaviors planned for 1989-1993 Table 14.

		Chang 1087	Changes Made	Cha	Changes Plan 1988-1992	Planned
			Number of			Number of
		Yes	Respondents	Yes	Maybe	Respondents
		Percent		rercent		
	of the state of the salding now of the salding now or the salding sald	21.1	270	18.0	29.3	256
Э	Diversified farm by raising live crop	36.8	266	25.2	15.4	254
•	Diversified faim by tatating treeson.	79.4	267	69.2	6.6	253
	raid closer accellation to marketing	6.69	269	47.5	19.2	255
	77.7	58.7	264	96.0	11.5	252
a	Reduced Tollg-telm debt	60.5	261	53.4	11.6	251
	Keduced Short-term debt	19.6	271	12.8	25.2	258
	bought additional rand		271	5.5	9.0	257
	Sold Some Land	19.2	265	10.8	13.9	252
	Renced Lewel acres	25.3	265	18.2	23.4	253
	Renced more acres		267	7.9	15.1	253
χ, -	Started a new Dusiness (not raimens)	16.7	269	19.8	24.8	258
-	ء ،	43.9	269	31.6	18.3	257
	manuformed land back to lender		268	2.0	4.4	255
ц	Italistetted taild back to telect	•	271	7.8	13.3	257
	Sought trainfill for hited help	43.1	267	32.2	8.8	252
ъ.	Neduced expellatorics for intro in-f	61.0	269	60.7	6.7	254
	Nept more comprete infancial received	8.9	797	8.9	14.7	252
Ϊ.	3	8 27	270	44.5	12.6	254
	Bought Clop Instructory	25.1	271	16.4	13.3	256
٠.	Reduced macililiery illvelicury	· ~	269	23.7	15.8	254
=	Sought off-farm emproyment	7.4	270	11.7	19.8	258
· :	Recife flow falming	4.8	271	7.8	23.7	258
≥	duic taiming					

Farm operators' report of participation in government programs and their opinions on how helpful the programs were Table 15.

There are a number of government programs and laws designed to assist farmers. Please indicate whether you have participated in them over the past five years and how much help they provided.

	Pa	Participated	ited		Q	Did Not Participate	icipate	
	No Help	Some Help	Some A Lot Help of Help	Not Needed	Did Not Qualify	Not Not lify Available	Know About	Number of Respondents
Federal government commodity		21	ر ا)			
programs (e.g., Feed Grain, Dairy Support)	2.8	42.8	30.4	16.0	7.9	ı	1.6	250
Conservation reserve program (CRP)	6.3	12.5	10.8	45.0	20.8	9.0	4.2	240
Loans from FmHA	7.9	5.4	8.3	0.09	15.8	•	2.5	240
Farmer/lender mediation service	7.1	5.8	2.9	76.3	5.8	7.0	1.7	240
1988 Drought Assistance Act	6.4	38.2	24.3	19.9	10.4	•	8.0	251
Federal all-risk crop insurance	11.6	15.3	11.6	50.8	9.9	1	4.1	242
Chapter 11 bankruptcy (debt reorganization)	6.2	7.0	ı	88.5	2.9	,	2.1	243
Chapter 12 (debt restructuring for farmers)	5.4	8.0	7.0	87.6	2.5		3.3	242
Vocational retraining/ education program for self or family member	6.5	5.7	3.5	75.9	2.0	1.2	5.3	245

Table 15, continued

9 2.9 - 9.5 242	0 2.0 - 3.3 245	5 12.7 0.4 0.4	0 13.0 0.4 1.6	.1 15.4 2.0 1.2	4.5 0.4 4.5 244	.0 2.9 0.4 7.0
1.7 78.9	0.4 82.0	1.2 77.5	2.8 72.0	1.6 69.1	0.8 75.4	2.0 75.0
7.0	4.5	2.0	6.4	4.5	8.0	7.8
9.9	7.8	5.7	5.3	6.1	9.9	9.9
Job Farthership Training Act or other off-farm job search assistance program	Mental health counseling for yourself or family member	Food stamps	Fuel assistance	Unemployment benefits	Income assistance (e.g., AFDC, SSI)	Financial analysis or counseling by Extension Service

Table 16. Farmers' opinions on their information and training needs to continue farming in the next five years

In order to continue farming in the next five years, I will need information training on:

	Not Needed	Low Need	Moderate Need	Need	Very High Need	Number of Respondents
Marketing skills	19.1	12.5	35.8	21.4	11.3	257
Diversification of farm operation by adopting new crops and livestock	27.8	23.2	31.3	13.1	4.6	259
Available government assistance	21.2	23.5	35.3	10.2	9.8	255
Bookkeeping and financial systems	29.6	20.6	26.8	17.1	5.8	257
Using appropriate conservation techniques	22.5	22.1	32.9	17.8	4.7	258
Using new technologies as they become available	12.0	15.5	40.7	23.3	8.5	258
Using new machines and chemical inputs to increase my production	17.1	19.1	33.1	22.6	8.2	257
Reducing production costs through low-input farming methods	14.8	16.0	34.8	22.3	12.1	256
Processing farm products on farm before selling	44.6	24.8	21.3	5.8	3.5	258

Table 17. Farm spouses' report on types of farm duties and changes in the amount of time spent on these duties

	Pe	Perform T	These Duties	ties		I	ime on 1	Time on These Duties Has	Has
		Some-		Not	Number of		Stayed		Number of
	Always ti	times	Never Do	Done	Respondents	Increased	Same	e Decreased	Respondents
Field work	9.6	55.4	27.1	7.9	240	12.7		30.3	221
Milked or cared for farm animals	20.3	45.6	18.3	15.8	241	18.6	0.67	32.4	210
Run farm errands	30.3	64.3	2.9	2.5	241	15.0	6.69	15.0	226
Purchased major farm supplies and equipment	9.4	24.3	57.3	13.8	239	2.5	88.0	9.5	200
Marketed farm products through wholesale buyers or directly to consumers	3.8	16.2	59.4	20.5	234	3.1	86.4	10.5	191
Bookkeeping and maintained records	43.6	32.9	19.3	4.1	243	23.6	69.1	7.3	220
Done household tasks and/or child care	92.6	5.3	8.0	1.2	244	21.1	62.1	16.8	232
Supervised the farm work of others	3.3	38.7	46.7	11.2	240	7.0	78.1	14.9	201
Took care of a vegetable garden or animals for family consumption	64.2	24.6	4.5	1.6	243	4.6	63.7	20.8	230
Worked at an off-farm job	29.8	40.5	19.0	10.7	242	28.0	50.9	21.0	214

Farm spouses' opinions on family decision-making behavior Table 18.

For each of the following decisions, please indicate whether you usually make the decision, your spouse/someone else makes the decision, or you make the decision together with your spouse/someone else.

	Usually Myself	My Husband or Someone Else	Husband Myself and Decision or Husband or Has Neverone Else Come Up	Decision Has Never Come Up	Number of <u>Respondents</u>
Buy or sell land	9.0	19.3	59.7	20.6	243
Rent more or less land	,	32.0	0.64	19.1	241
Buy major household appliances	12.7	7.8	78.7	8.0	244
Buy major farm equipment	•	51.0	6.44	4.1	243
Produce a crop or livestock	,	49.6	35.1	15.3	242
When to sell your agricultural products	0.8	57.3	36.9	5.0	241
Try a new agricultural practice	4	57.4	30.2	12.4	242

Table 19. Farm spouses' report of frequency of life pressures

There are many pressures on farm families. How frequently do you experience the following pressures?

	Almost Never	Occasionally		Does Not Apply	Number of Respondents
Problems in balancing work					
and family responsibilities	19.3	48.3	27.3	5.0	238
Conflict with spouse	32.2	54.1	9.1	4.5	242
Conflict with children	30.6	47.5	9.1	12.8	242
Adjusting to new government policies	24.2	55.4	6.7	13.8	240
Difficulty with child care arrangements	28.9	17.8	2.1	51.2	242
No farm help or loss or help when needed	32.4	46.9	2.9	17.8	241
Lacking control over weather and commodity					
prices	11.7	54.8	25.1	8.4	239
Insufficient support from spouse in farm or family					
duties	52.5	33.5	4.5	9.5	242
Indebtedness and debt- servicing problems	34.2	40.4	12.9	12.5	240

Table 20. Coping strategies used by farm spouses

How often do you use any of the following coping strategies?

	Use a Great Deal	Use Quite A Bit	Use Somewhat	Never Use	Number of Respondents
Participate in church activities	35.7	Percent 24.9	29.9	9.5	241
Become more involved in activities outside the farm	12.0	27.0	51.0	10.0	241
Notice people who have more difficulties in life than I do	17.0	34.9	42.7	5.4	241
Tell myself that success in farming is not the only important thing in life	16.3	25.9	38.1	19.7	239
Remind myself that for everything bad about farming, there is also something good	20.3	28.7	38.0	13.1	237
Put up with a lot as long as I make a living from farming	15.5	25.9	35.6	23.0	239
Go on as if nothing is happening	10.9	18.1	41.2	29.8	238
Make a plan of action and follow it	12.3	30.9	42.8	14.0	236
Try to make myself feel better by eating, drinking, smoking, using medication, etc.	9.4	7.5	27.8	60.2	241
Refuse to think about it	1.3	10.9	41.8	0.94	239
Keep problems secret from others	8.0	12.2	8.94	32.9	237
Seek support from friends and/or relatives	6.7	21.4	50.0	21.8	238

Table 20, continued

Seek spiritual support from minister, priest, or other	6.7	12.2	37.0 44.1	44.1	238
Talk to a family counselor or other mental health professional	8.0	1.3	8.5	7.68	236
Don't expect to get much income from farming	10.6	13.6	45.8 30.1	30.1	236
Try to keep my feelings to myself	12.1	20.1	48.1	19.7	239
Talk to someone who can do something concrete about the problem	5.1	8.1	41.1	45.8	236
Wish that the situation would go away or somehow be over with	12.7	16.9	43.6	43.6 26.7	236

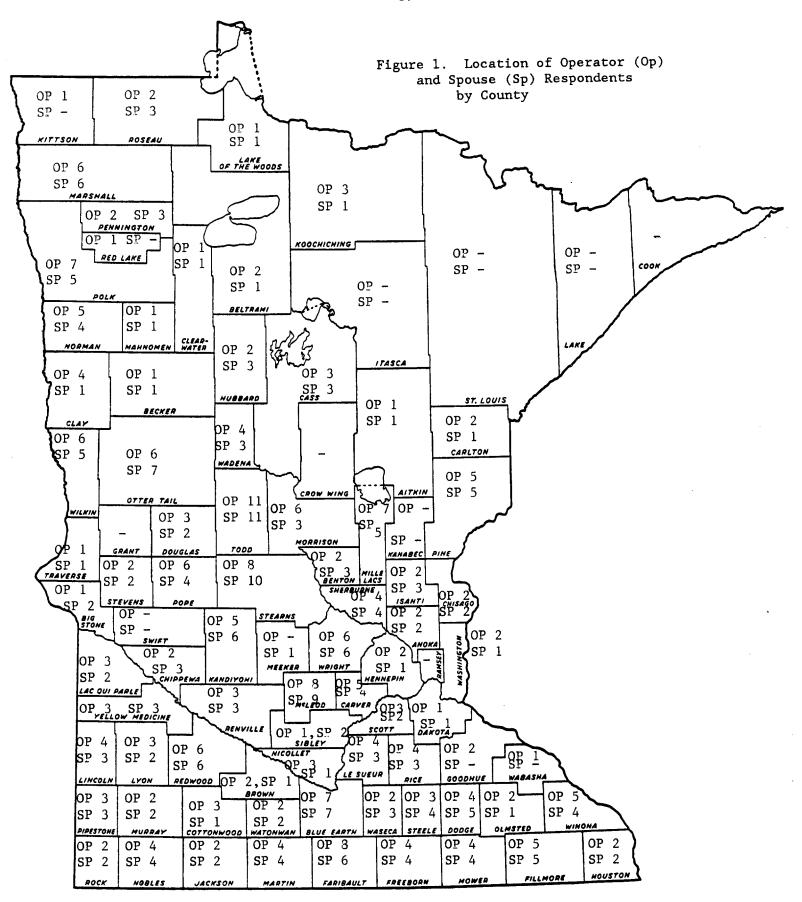
Operator and farm spouse membership in farm and local organizations Table 21.

There are a number of farm and local organizations. Please indicate spouse and operator's activity in these organizations.

		Sp	Spouse		:	Оре	Operator	Í
	Member	Former Never r Member Membe Percent	Never Member	Number of Respondents	Member	Former Nev r Member Mem Percent	Never Member	Number of Respondents
Any organization, such as National Farmers Organizations, Grange, Farm Bureau, National Farmers Union, Young Farmers and Farm Wives	25.3	13.3	61.4	233	34.5	17.7	47.8	232
Any women's branches of general farm organizations, such as Farm Bureau Women	5.2	3.0	91.8	232	2.5	2.0	95.5	198
Any commodity producers' associations, such as the American Dairy Association or National Wheat Producers Association	18.5	8.4	7.91	227	28.6	9.6	62.1	224
Any women's branches of commodity organizations, such as the Cattlewomen or the Wheathearts	3.0	2.6	94.3	230	1.5	0.5	98.0	197
Women's farm organizations, such as Women for Agriculture, American Agri-Women, or Women Involved in Farm Economics	1.7	1.3	97.0	232	•	0.5	99.5	195

Table 21, continued

Farm political action groups, such as a state Family Farm Movement or National Save the Family Farm Coalition	0.4	7.0	99.2	235	6.0	6.0	98.2	219
Local governing board, such as school board or town council	5.7	5.3	89.0	228	22.0	13.3	64.7	218
Marketing Cooperative	11.0	2.2	86.8	227	23.3	7.2	69.5	223
Farm Supply Cooperative	19.1	2.2	78.7	225	36.4	7.6	56.0	225



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Appendix A. Weighting.

The high nonresponse rate for this survey (61 percent of farm operators) indicates the potential for bias in the survey results. To improve the representiveness of the sample, we weighted the sample based upon two characteristics of the farm population: the farm operator age and gross farm sales. The population distribution is based upon the results of the 1987 Census of Agriculture. The weights were calculated as follows.

Weight for Observation in "Gross Sales-Age" Category Percent of the population in "gross sales-age" category i Percent of the sample in "gross sales-age" category i

The specific weights assigned to each observation in a gross sales-age category are given below in Appendix Table 1.

Appendix Table 1. Weights assigned to farm operators and spouses

	<u> </u>	es of Farm Produc	ts Categories
Age of Operator	<\$10,000	\$10,000- 99,999	≥\$100,000
 Age ≤ 34	2.31	1.42	0.38
35-44	2.17	0.82	0.67
45-54	2.06	0.97	0.81
55-64	3.10	0.86	0.49
≥ 65 years	1.02	1.24	1.30

The weights indicate that farms with gross sales of farm products <\$10,000 for operators of all ages were under surveyed as their proportion surveyed is lower than their proportion observed in the farm population. Likewise older farms were also under surveyed in all the gross sales categories. Other categories especially farms with gross sales above \$100,000 were over represented in our sample.

Appendix Table 2. Comparison of weighted and unweighted personal characteristics of operators and spouses

	Sample Opera		Sample Spou	
Characteristics	Unweighted	Weighted	Unweighted	Weighted
Years of Age				
Under 25 years	0.8	0.3	2.5	3.0
25-34 years	18.7	19.4	19.2	20.7
35-44 years	23.0	21.6	25.4	26.2
45-54 years	20.7	21.5	25.4	21.9
55-64 years	24.4	23.0	20.8	20.7
65+ years	<u>12.4</u>	<u>14.2</u>	6.7	7.5
	100%	100%	100%	100%
Years of Education				
1-8 years	15.7	15.5	3.4	5.4
9-12 years	49.1	53.5	58.7	58.1
13-16 years	32.5	27.9	35.8	35.1
17+ years	<u>2.7</u>	<u>3.1</u>	<u>2.1</u>	1.4
	100%	100%	100%	100%
Net Family Income from All Sources				
IIOM AII BOUICES				
Loss	3.4	3.7		
\$1\$9,999	18.8	19.0		
\$10,000\$19,999		22.3		
\$20,000\$29,999		24.1		
\$30,000\$39,999		13.1		
\$40,000\$49,999		8.9		
\$50,000\$59,999		3.7		
\$60,000\$69,999		2.3		
Over \$70,000	4.6	<u>2.9</u>		
	100%	100%		

Mean age of farm operator was 48.5 years for the Census of Agriculture and 48.9 years from our weighted survey respondents.

The weighting procedure had only a small effect upon the distributions by age, education and net family income.

Appendix Table 3. Comparison of weighted and unweighted respondents' farm size characteristics to characteristics of the total farm population of Minnesota

	Sample Opera		Farm <u>Population</u> l
Characteristics	Unweighted		
Farm Size in Acres			
19 acres	0.0	0.0	5.4
1049 acres	3.8	6.8	11.1
50179 acres	24.4	30.3	19.3
180499 acres	42.5	43.2	36.4
500999 acres	20.7	14.6	12.7
1,000+ acres	<u>8.6</u>	<u>5.1</u>	<u>5.1</u>
	100%	100%	100%
Gross Sales of Farm Products			
Less than \$10,000	16.2	31.4	31.4
\$10,000\$39,999	20.0	20.5	25.9
\$40,000\$99,999	28.5	28.8	23.4
\$100,000\$249,999	25.8	15.5	15.1
\$250,000 or more	<u>9,6</u>	<u>3.9</u>	<u>4.2</u>
	100%	100%	100%

¹¹⁹⁸⁷ Census of Agriculture, (U.S. Dept. of Commerce)

Our survey reports small farms with fewer than 50 acres and over reports middle and large sized farms as compared with the farm population. Likewise the survey also under reports small farms in the gross sales categories and over reports the number of middle and larger size farms. The weighted sample will very closely resemble the farm population in the gross sales category as the weights are based, in part, upon the value of gross sales.

Appendix B. Comparison between respondents and nonrespondents

In order to gain additional information about possible bias 28 operator and 35 spouse nonrespondents were interviewed by telephone and asked several of the questions from the mail survey. The sample mean responses from the mail surveys were compared to those of the phone interviews using t-tests.

No significant difference was indicated between the respondents and the nonrespondents for most of the survey questions compared. The average age of the farm operator was 48.6 (farm spouses 46.0) for survey respondents as compared to 48.3 (45.0 for spouses) on the nonrespondent survey. Mean responses were compared for the two surveys and no statistical differences were indicated. Likewise no statistical differences were found for operator and spouse education, total family income and gross farm sales. Average owned acres of the mail survey was 284 acres as compared to 355 acres for the phone survey. This was statistically different (a=0.2 level). However average rented acres were statistically the same 295 for the mail survey and 304 for the phone survey.

Other variables compared were related to perceived quality of life, financial condition, overall satisfaction with farming and plans to continue farming. In this case the average mail surveyee indicated that he was more likely to discontinue farming operations.

There were no statistical differences indicated by the farm operator from a selection of the risk reducing behaviors in question 8 of the survey. Nor were the nonrespondents more or less likely to have off farm occupations.

Similar comparisons were made on the survey of farm spouses with no statistical differences observed.



NORTH CENTRAL REGIONAL CENTER FOR RURAL DEVELOPMENT

IOWA STATE UNIVERSITY of Science and Technology 216 East Hall Ames, Iowa 50011 515-294-8322

Dear Farm Family:

There is considerable national interest in the social and economic well-being of farm families. While there is general agreement that the last decade has brought many changes to the farm industry, there is little information about how farm families have adjusted to these changes. We are conducting a 12 state study on the well-being of farm families, funded by the North Central Regional Center for Rural Development. A sample of farm families in each of the north central states is being asked to complete identical questionnaires. The states participating in the study are Illinois, Indiana, lowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, Ohio, North Dakota, South Dakota, and Wisconsin.

There are two questionnaires in this packet--one to be completed by the farm operator and another to be completed by the spouse or household partner. We would like the person who is responsible for the majority of the farm operation decisions to complete the farm operator survey, and his/her spouse or household partner to complete the other questionnaire. You will note each questionnaire is numbered to enable us to match couples' responses and to ensure an adequate follow-up. If you are single, simply complete your questionnaire and indicate your marital status on the appropriate question.

You have been randomly selected from a list of all farm families in your state. Therefore, it is important that we hear from everyone. Let me emphasize that your responses will be kept in strict confidence and information about individual respondents will never be given out to anyone for any reason. In addition, we have provided separate envelopes for each person to protect individual confidentiality.

Please complete and return your questionnaire as soon as possible. The information you provide will be used by researchers, Extension staff, and others who deliver services and programs to farm families. On behalf of the research team, we sincerely hope you will participate in this survey, and we thank you for your help.

Sincerely,

Pete Korsching

Director

Enclosures

OPERATOR'S QUESTIONNAIRE

DIRECTIONS

Please circle the appropriate number to answer each queston. Your first impression is the answer desired on the following questions.

 How have the following services, facilities and economic conditions changed in your community over the past five years? Would you say they have generally "improved, "remained the same," or "gotten worse?"

			Improved	Remained the same	Gotten Worse	Uncertain	Not Available
	a.	Quality of schools	. 1	2	3	4	5
	b.	Job opportunities	. 1	2	3	4	5
	C.	Health care services	. 1	2	3	. 4	5.
	d.	Child care facilities	. 1	2	3	4	5
	e.	Shopping facilities	. 1	2	3	4	5
	f.	Police and fire protection	. 1	2	3	4	5
	g.	Adult education opportunities	. 1	2	3	4	5
	h.	Banking services	. 1	2	3	4	5
	i.	Opportunities for entertainment and recreation	. 1	2	3	4	5
	j.	The current financial condition of farmers has	. 1	2	3	4	5
	k.	The current financial condition of agribusiness firms in your area has.	s . 1	2	3	4	5
	I.	The current financial condition of lenders in your area has	. 1	2	3	4	5
	m.	Your farm's financial condition has	. 1	2	3	4	5
					Yes	No	Not sure
2.	Wo	uld you recommend farming to your children or anothe	er relative? .		. 1	2	3
0	Uou	v often de verveed with other monte in	At least onc	e At least on a month		ast once or	Not at all
3.		v often do you work with other people in rommunity to solve local problems?	1	2		3	4
			Very sorry	Somewha sorry	-	A little sorry	Not at all sorry
4.		pose that for some reason you had to move y from here. How sorry would you be to leave?	1	2		3	4

5. Please circle the response that comes closest to your opinion about the quality of life in your community.

		Become Much Better	Become Somewhat Better	Remained The Same	Become Somewhat Worse	Become Much Worse
a.	During the past five years, your family finances have	. 1	2	3	4	5
b.	During the past five years, the quality of life for your family has	1	2	3	4	5
C.	In the next five years the overall economic condition of farmers will	1	2	3	4	5
d.	Considering your farm's overall financial situation, the likelihood that you will continue to farm for at least the next five years has	. 1	2	3	4	5
е.	Compared to farmers in your area, your financial situation has	1	2	3	4	5
f.	All things considered, your satisfaction with farming has.	1	2	3	4	5
g.	"Neighboring" over the past five years has	1	2	3	4	5
h.	Neighbors helping each other over the past five year has.	. 1	2	3	4	5
i.	Do you believe the things you have in common with people in your community have	. 1	2	3	4	5

6. Has your family made any of the following adjustments because of financial need in the past five years?

		<u>Yes</u>	<u>No</u>
a.	Used savings to meet living expenses	. 1	2
b.	Sold possessions or cashed in insurance	. 1	2
c.	Purchased more items on credit	. 1	2
d.	Postponed major household purchase(s)	. 1	2
e.	Let life insurance lapse	. 1	2
f.	Cut back on charitable contributions	. 1	2
g.	Changed food shopping or eating habits to save money	. 1	2
h.	Changed transportation patterns to save money	. 1	2
i.	Reduced household utility use, such as electricity, telephone	. 1	2
j.	Postponed medical or dental care to save money	. 1	2
k.	Cancelled or reduced medical insurance coverage	1	2
I.	Borrowed money from relatives or friends	1	2
m.	Fallen behind in paying bills	. 1	2
n.	Decreased money saved for children's education	1	2
٥.	Children have postponed education	1	2
p.	Spouse has taken off-farm employment	1	2
q.	You have taken off-farm employment		2

•			Greatly ncreased	Somewhat Increased			Greatly Declined	
7.	a.	Over the past five years, your personal level of stress has	. 1	2	3	4	5	_
	b.	Your concern with your level of stress has	. 1	2	3	4	5	
	C.	On a day-to-day basis, your stress has	. 1	2	3	4	5	

8. Many farmers believe that the risk in farming has increased during the past five years. In <u>Column A</u>, please indicate what changes you have made to <u>reduce risk</u> in your operation. In <u>Column B</u>, please indicate the changes you are <u>planning to make</u> in the next five years. (Please answer both columns A & B)

	Colun Changes Made			Column Planned	B (1989-1993)
	YES	NO	YES	NO	MAYBE
a. Diversified farm by adding new crops .	1	2	1 '	2	3
b. Diversified farm by raising livestock	1	2	1	2	3
c. Paid closer attention to marketing	1	2	1	2	3
d. Postponed major farm purchase(s)	1	2	1	2	3
e. Reduced long-term debt	1	2	1	2	3
f. Reduced short-term debt	1	2	1	2	3
g. Bought additional land	1	2	1	2	3
h. Sold some land	1	2	1	2	3
i. Rented fewer acres	1	2	1	2	3
j. Rented more acres	1	2	1	2	3
k. Started a new business (not farming).	1	2	1	2	3
I. Used the future markets to hedge price	es 1	2	1	2	3
m. Shared labor or machinery with neight	oors 1	2	1	2	3
n. Transferred land back to lender	1	2	1	2	3
o. Sought training for new vocation	1	2	1	2	3
p. Reduced expenditures for hired help.	1	2	1	2	3
q. Kept more complete financial records.	1	2	1	2	3
r. Changed from cash rent to crop share	1	2	1	2	3
s. Bought crop insurance	1	2	1	2	3
t. Reduced machinery inventory	1	2	1	2	3
u. Sought off-farm employment	1	2	1	2	3
v. Retire from farming	1	2	1	2	3
w. Quit farming	1	2	1	2	3

9. There are a number of government programs and laws designed to assist farmers. For each of the programs or laws listed below, please indicate whether you have participated in them over the past five years and how much help they provided.

				ted in this nd it to be:			rticipate in because:	this
		No Help	Some	A Lot of Help	Not Needed	Did Not Qualify		Did Not Know About
a.	Federal government commodity programs (e.g. Feed Grain, Dairy Support)	. 1	2	3	4	5	6	7
b.	Conservation reserve program (CRP)	. 1	2	3	4	5	6	7
C.	Loans from FmHA	. 1	2	3	4	5	6	7
d.	Farmer/lender mediation services	. 1	2	3	4	5	6	7
e.	1988 Drought Assistance Act	. 1	2	3	4	5	6	7
f.	Federal all-risk crop insurance	. 1	2	3	4	5	6	7
g.	Chapter 11 bankruptcy (debt reorganization)	. 1	2	3	4	5	6	7
h.	Chapter 12 (debt restructuring for farmers)	. 1	2	3	4	5	6	7
i.	Vocational retraining/education program for self or family member	. 1	2	3	4	5	6	7
j.	Job Partnership Training Act or other off-farm job search assistance program	. 1	2	3	4	5	6	7
k.	Mental health counseling for yourself or family member	1	2	3	4	5	6	7
I. •	Food stamps	. 1	2	3	4	5	6	7
m.	Fuel Assistance	. 1	2	3	4	5	6	7
n.	Unemployment benefits	1	2	3	4	5	6	7
Ο.	Income assistance (e.g. AFDC, SSI)	1	2	3	4	5	6	7
p.	Financial analysis or counseling by Extension Service.	. 1	2	3	4	5	6	7

10. In order to continue farming in the next five years, I will need information/training on:

		Not <u>Needed</u>	Low Need	Moderate Need	High Need	Very High Need
a.	Marketing skills	. 1	2	3	4	5
b.	Diversification of farm operation by adopting new crops and livestock	. 1	2	3	4	5
c.	Available government assistance	. 1	2	3	4	5
d.	Bookkeeping and financial systems	. 1	2	3	4	5
e.	Using appropriate conservation techniques	. 1	2	3	4	5
f.	Using new technologies as they become available	. 1	2	3	4	5
g.	Using new machines and chemical inputs to increase my production	. 1	2	3	4	5
h.	Reducing production costs through low-input farming methods	. 1	2	3	4	5
i.	Processing farm products on farm before selling	. 1	2	3	4	5

DEMOGRAPHIC AND FAMILY CHARACTERISTICS

5.	Wh	at are the ages of:	Fa	rm Operato	r	Spouse	
6.	Wh ∞n	at is the highest level of education apleted	Y	ourself	years	Spouse	years
7.	Ho	w many persons in your household are	e: Under 5 years	of age _			
			5 to 12 years o	of age _			
			13 to 19 years	of age			
			Over 19 years	of age			
				OPE	RATOR	SPOU	<u>SE</u>
18.	a.	In 1988, did you (or your spouse) work	c off the farm?		es (1) lo (2)	Yes (
	b.	How many miles did you commute or	ne-way?		MILES		MILES
	c.	How many years have you (or your s worked off the farm?	pouse)		YEAR	s	YEARS
	d.	On an average, how many hours per you work at this job?	week do		HOUR	s	HOURS
	e.	How many weeks in 1988 did you wo	ork at this job?		WEEK	:s	WEEKS
	f.	What occupation was the most impo (Please check the appropriate categ		988?			
		Professiona	ai				_
		Manager/Ac	dministrator	•		<u></u>	
		Sales/Cleric	al				
		Craftsman/f	Machine Operator				
		Transportat	ion				
		Laborer/Ser	rvice Worker				
		Nonfarm se	lf-employed				
		Other (plea	se specify)				

FARM OPERATION

In order to measure the extent of changes in farm operations from 1984 to 1988, please answer the following questions for last year (1988) and your best recollection for 1984.

				<u> 1988</u>		<u> 1984</u>	
9.	Wh pro	at percent of the labor used on your farm was vided by yourself and other family members?			percent		percent
20	On on t	the average, how many hours per week do you he farm?	ı work		hours		hours
21.	Hov	w may acres did you own ?		•	acres		acres
22.	Ηον	w many acres did you rent or lease FROM othe	rs?		acres		acres
23.	Ho	w many acres of land did you rent or lease TO	others?		acres		acres
24.		the total acres you farmed in 1988 and 1984, he re in:	ow many	1988		1984	
	a.	Cropland (include set aside acres)		· · · · · · · · · · · · · · · · · · ·	acres		acres
	b.	Pasture and Hay			acres		acres
	c.	Conservation Reserve Program acres		·	acres		acres
	d.	Timber/forest			acres		acres
25.	to	ease indicate the number of acres planted the following crops in 1988 and 1984. If you not raise these crops, please enter "0".		1988		<u>1984</u>	
	aic	not raise these crops, please enter o .	Corn		acres		acres
			Soybean		acres		_ acres
			Wheat		acres		_ acres
			Oats		acres		_ acres
			Sorghum		_ acres	-	_ acres
			Barley		_ acres		_ acres
			Other		_ acres		_ acres
26.	pr	ease indicate the number of livestock/poultry oduced in 1988 and 1984.		1988	<u>.</u>	1984	
	(If	you did not raise, please enter "0")	Beef Cows		head		_ head
			Feeder Cattle	·	head		_ head
			Dairy Cows		head		_ head
			Sows		head		_ head
			Ewes		head		_ head
			Turkeys		number		_ numbei
			Laying Hens		number		_ numbe

FARM OPERATION

In order to measure the extent of changes in farm operations from 1984 to 1988, please answer the following questions for last year (1988) and your best recollection for 1984.

				<u> 1988</u>		<u> 1984</u>	
19.	Wh pro	at percent of the labor used on your farm was vided by yourself and other family members?			percent		percent
20		the average, how many hours per week do you the farm?		•	_hours		hours
21.	Hov	w may acres did you own ?		•	_acres		acres
22.	Ho	w many acres did you rent or lease FROM othe	rs?		_ acres		acres
23.	Ho	w many acres of land did you rent or lease TO	others?		acres		acres
24.		the total acres you farmed in 1988 and 1984, h re in:	ow many	1988		1984	
	•	Cropland (include set aside acres)			acres		acres
	a.	•			acres	,	
	b.	Pasture and Hay Conservation Reserve Program acres			acres		acres
	c. d.	Timber/forest			•		
0.E	-	ease indicate the number of acres planted			. 40100		
23.	to	the following crops in 1988 and 1984. If you not raise these crops, please enter "0".		<u>1988</u>		<u>1984</u>	
			Corn		acres		acres
			Soybean		acres		
			Wheat		acres		acres
			Oats		acres		acres
			Sorghum		acres		acres
			Barley		acres		acres
			Other		acres		acres
26.	pro	ease indicate the number of livestock/poultry oduced in 1988 and 1984.		1988		1984	
	(11	you did not raise, please enter "0")	Beef Cows		_ head	·	head
			Feeder Cattle		_ head		head
			Dairy Cows		_ head		head
			Sows		_ head		head
			Ewes		_ head		head
			Turkeys		_ number		numbe
			Laying Hens		number		numbe

FINANCIAL CONDITIONS IN FARMING

There is a continuing debate on the financial health of farming. Some people argue that the problem is being exaggerated, while others claim the financial condition remains a very serious problem. To help us assess the financial conditions in farming, we'd like you to answer the following questions.

27.	As of January 1, 1989, what was the estimated current market value of your farm assets?	1.	Real Estate Assets \$
	(including land, buildings, machinery, and livestock)	2.	Non-Real Estate Assets \$
28.	The value of your January 1, 1989 total assets,		
	compared to a year earlier has:	1.	Increased
		2.	Remained the Same
		3.	Decreased
29.	As of January 1, 1989, what were your estimated total liabilities? (including all debts for land, buildings,		
	machinery, livestock and unpaid bills)	1.	Real Estate Debts \$
		2.	Non-Real Estate Debts \$
4			
30.	Your debts as of January 1, 1989, compared to a year earlier have:	1.	Increased
		2.	Remained the Same
		3.	Decreased
31.	What was the gross farm sales, including government farm p (Circle the appropriate range)	ayme	ents, from your operation in 1988?
	1. Less than \$10,000		4. \$100,000\$249,999
	2. \$10,000\$39,999 3. \$40,000\$99,999		5. \$250,000\$499,999 6. \$500,000 or more
32.	Which of the following categories comes closest to your net femployment, farming and non-farm income such as interest a	amily and S	r income for 1988? (This includes off-farm Social Security)
	1. A loss was realized		6. \$40,000\$49,999
	2. \$1\$9,999 3. \$10,000\$19,999		7. \$50,000\$59,999 8. \$60,000\$69,999
	4. \$20,000\$19,999 5. \$30,000\$39,999		9. Over \$70,000

33.	Wh	hat percent of your total family income for 1988 was derived	110111.				
	Far	rming (including government farm payments)	_		percent		
	Off	farm employment (including self and spouse)	-	 	percent		
	Oth	ner non-farm income (i.e. interest, Social Security)	_		percent		
		TC	TAL	100	percent		
34.	a.	Do you anticipate you will apply for a new farm loan or add to existing farm loans for 1989?	1.	Yes	2. No	3.	Not Sure
	b.	Do you anticipate any problem in securing adequate financing for farm operating expenses for Spring 1989?	1.	Yes	2. No	3.	Not Sure
	C.	As of January 1, 1989, did you have any outstanding farm non-real estate loans	1.	Yes	2. No	3.	Not Sure
	d.	Are you current on your non-real estate loans?	1.	Yes	2. No	3.	Not Sure
	e.	As of January 1, 1989, did you have any outstanding land (real estate) mortgages?	1.	Yes	2. No	3.	Not Sure
	f.	Are you current on your land (real estate) mortgages?	1.	Yes	2. No	3.	Not Sure
Cor	nme	ents:					
							

THANK YOU FOR YOUR ASSISTANCE

SPOUSE'S QUESTIONNAIRE

This is a survey to determine the activities of spouses in the day-to-day operation of their farms. This survey is being done in conjunction with the operator's questionnaire. There are a few questions identical on both; however, most are different. Your first impression is the answer desired on the following questions.

Please complete and return your questionnaire in the enclosed self addressed return envelope. The information you provide will be kept strictly confidential and used only in State and Regional summaries. Please note there is no identification except a state code and sequential code to keep track of the questionnaire through the edit and summary programs and to match the operator and spouse questionnaires.

On behalf of the research team, we sincerely hope you will participate in this survey, and we thank you for the help.

Sincerely,

Peter F. Korsching

Director of the North Central Regional

Center for Rural Development

PK/jb

Enclosures

DIRECTIONS: Please circle the appropriate number to answer each question.

 We are interested in the kinds of work you do on your farm. Please indicate whether you have performed the following duties and if your time devoted to these tasks has changed over the past five years.

		I Perfor These Du				ne on T uties Ha	
	Aways	Some- Times	Never	Not Done	Increased	Stayed the Same	Decreased
a.	Field work1	2	3	4	1	2	3
b.	Milked or cared for farm animals1	2	3	4	1	2	3
C.	Run farm errands1	2	3	4	1	2	3
d.	Purchased major farm supplies and equipment1	2	3	4	1	2	3
e.	Marketed farm products through wholesale buyers or directly to consumers1	2	3	4	1	2	3
f.	Bookkeeping and maintained records1	2	3	4	1	2	3
g.	Done household tasks and/or child care1	2	3	4	1	2	3
h.	Supervised the farm work of others1	2	3	4	1	2	3
i.	Took care of a vegetable garden or animals for family consumption1	2	3	4	1	2	3
j.	Worked at an off-farm job1	2	3	4	1	2	3

2. For each of the following decisions, please indicate whether you usually make the decision, your spouse/someone else makes the decision, or you make the decision together with your spouse/someone else.

	Usually mvself	My spouse or someone else	Myself and spouse or someone else	Decision has never come up
a. Buy or sell land	1	2	3	4
b. Rent more or less land	1	2	3	4
c. Buy major household appliances	1	2	3	4
d. Buy major farm equipment	1	2	3	4
e. Produce a new crop or livestock	1	2	3	4
f. When to sell your agricultural products	1	2	3	4
g. Try a new agricultural practice	1	2	3	4

3. Please circle the response that comes closest to your opinion about the quality of life in your community.

	Become Much Better	Become Somewhat Better	Remained The Same	Become Somewhat Worse	Become Much Worse
During the past five years, your family finances have	1	2	3	4	5
b. During the past five years, the quality of life for your family has	1	2	3	4	5
c. In the next five years the overall economic condition of farmers will		2	3	4	5
 d. Considering your farm's overall financial situation, the likelihood that you will con- tinue to farm for at least the next five years 	has1	2	3	4	5
e. Compared to farmers in your area, your financial situation has	1	2	3	4	5
f. All things considered, your satisfaction with farming has	1	2	3	4	5
g. "Neighboring" over the past five years has	31	2	3	4	5
h. Neighbors helping each other over the pa five years has		2	3	4	5
 Do you believe the things you have in common with people in your community has 	as1	2	3	4	5

4. a. Suppose that for some reason you had to move from here. How sorry would you be to leave?

<u>Very sorry</u>	<u>Somewhat sorry</u>	<u>A little sorry</u>	<u>Not at all sorry</u>
1	2	3	4

b. How often do you work with other people in your community to solve local problems?

At least once	At least once	At least once	Not
a week	<u>a month</u>	or twice a year	<u>at all</u>
1	2	3	4

			Would help	Probably help	Probably would not help	Would not help	Unsure
5.	a.	If a situation developed that would hurt your community, would residents in your community help in doing something about it?	1	2	3	4	5
	b.	If a farmer in your community had his/her farm foreclosed and some of the community residents thought it was unfair and organized a protest, would the others help out?	1	2	3	4	5
	C.	If a situation developed that would hurt your community, would you help in doing something about it?	1	2	3	4	5
	d.	If a farmer in your community had his/her farm foreclosed and some of the community residents thought it was unfair and organized a protest, would you help out?	1	2	3	4	5

6. There are many pressures on farm families. How frequently do you experience the following pressures?

	Almost never	Occasionally	Daily	Does not apply
a. Problems in balancing work and family duties		2	3	4
b. Conflict with spouse		2	3	4
c. Conflict with children		2	3	4
d. Adjusting to new government policies		2	3	4
e. Difficulty with child care arrangements		2	3	4
f. No farm help or loss of help when needed		2	3	4
g. Lacking control over weather and commodity prices	1	2	3	4
h. Insufficient support from spouse in farm or family duties		2	3	4
i. Indebtedness and debt-servicing problems		2	3	4

7. During the past twelve months, how often did your family not have enough money to afford the kind of:

		Very often	Fairly often	Not very often	Never
9	Food your household should have?		2	3	4
	Clothes your household should have?		2	3	4
	Medical care your household should have?		2	3	4

8. Below is a list of the ways you might have felt or behaved. How often have you felt this way during the past week?

	Paralu	C 1:	0	All the
a.	I felt hopeful about the future1	Sometimes	Occasionally	<u>time</u>
b.		2	3	4
U.	My sleep was restless1	2	3	4
C.	I was happy1	2	3	4
d.	I felt lonely1	•	•	
		2	3	4
е.	I was bothered by things that usually don't bother me1	2	3	4
f.	I had trouble keeping my mind on what I was doing1	2	3	4
		-	U	4
g.	I felt depressed1	2	3	4
h.	I felt that everything I did was an effort1	2	3	Λ
i		_	J	7
٠.	I enjoyed life1	2	3	4
j	I felt sad1	2	3	4

9. There are many ways of coping with serious farm problems such as drought and low prices. Listed below are some of these coping strategies. How often do you use any of them?

	Use a great deal	Use quite a bit	Use somewhat	Never use
a.	Participate in church activities1	2	3	4
b.	Become more involved in activities outside the farm1	2	3	4
C.	Notice people who have more difficulties in life than I do1	2	3	4
d.	Tell myself that success in farming is not the only important thing in my life1	2	3	4
e.	Remind myself that for everything bad about farming, there is also something good1	2	3	4
f.	Put up with a lot as long as I make a living from farming1	2	3	4
g.	Go on as if nothing is happening1	2	3	4
h.	Make a plan of action and follow it1	2	3	4
i.	Try to make myself feel better by eating, drinking, smoking, using medication, etc	2	3	4
j.	Refuse to think about it1	2	3	4
k.	Keep problems secret from others1	2	3	4
l.	Seek support from friends and/or relatives1	2	3	4
m.	Seek spiritual support from minister, priest, or other1	2	3	4
n.	Talk to a family counselor or other mental health professional 1	2	3	4
٥.	Don't expect to get much income from farming1	2	3	4
p.	Try to keep my feelings to myself1	2	3	4
q	Talk to someone who can do something concrete	2	3	4
r.	Wish that the situation would go away or somehow be	2	3	4

			Greatly Increased	Somewhat Increased	Remained The Same	Somewhat Declined	Greatly Declined
10.	a.	Over the past five years, your personal level of stress has	1	2	3	4	5
	b.	Your concern with your level of stress has	31	2	3	4	5
	c.	On a day-to-day basis, your stress has	1	2	3	4	5
11.	We	would like to ask you some questions abo	out your social a	ctivities None	12	3-5	10 or 6–9 more
	a.	How many clubs, organizations and othe (such as bowling teams, church groups, do you belong to?	P.T.A)		2	3	4 5
	b.	About how many people do you know fro you can expect real help in times of trou	om whom ble?	1	2	3	4 5
	c.	About how many relatives do you have the close to?	nat you feel	1	2	3	4 5
	d.	About how many close friends do you hayou can talk to about personal problems	ave, people s?	1	2	3	4 5
12.	Or	the average, how often have you seen yo	our close friends	or relatives in t	he past month	?	
		1. More than once a week 2. At lea	st every week	3. At least or		4. Not at a	II

a month

13. There are a number of farm or local organizations. Please indicate **both you and your spouse's** membership activity in the following: 1

		Member	Yourself Former Member	Never Member	<u>Member</u>	Spouse Former Member	Never Member
a.	Any farm organization, such as National Farmers Organizations, Grange, Farm Bureau, National Farmers Union, Young Farmers and Farm Wives	1	2	3	1	2	3
b.	Any women's branches of general farm organizations, such as Farm Bureau Women	1	2	3	1	2	3
C.	Any commodity producers' associations, such as the American Dairy Association or National Wheat Producers Association	1	2	3	1	2	3
d.	Any women's branches of commodity organizations, such as the Cattlewomen or the Wheathearts	1	2	3	1	2	3
e	Women's farm organizations, such as Women for Agriculture, American Agri-Women, or Women Involved in Farm Economics	1	2	3	1	2	3
f.	Farm political action groups, such as a state Family Farm Movement or National Save The Family Farm Coalition	1	2	3	1	2	3
g	Local governing board, such as school board or town council	1	2	3	1	2	3
h	. Marketing Cooperative	1	2	3	1	2	3
i.	Farm Supply Cooperative5	1 5	2	3	1	2	3

			Yes, land and assets	Yes land only	Yes assets only	No
2.	Is your name on a deed or title to any of the family farm land or assets?		1	2	3	4
3.	What is your sex? 1. Male	2. Female _				
24.	In what county do you live?	<u> </u>				
Cor	nments:					
					······································	· · · · · · · · · · · · · · · · · · ·
		·				

THANK YOU FOR YOUR ASSISTANCE

			<u>Y0</u>	urself		use				
14.	In the past five years, have you or your spou	ise:	<u>Yes</u>	Nb	Yes	No				
	a. Attended public meetings about farm or oth	er is	sues1	2	1	2				
	b. Talked to or written to government officials or farm issues			2	1	2				
	c. Signed a petition		1	2	1	2				
	d. Become more active in political groups		1	2	1	2				
	e. Participated in a protest over farm foreclosu	res .	1	2	1	2				
15.	Until you were sixteen, did you live mostly on a	farm	? 1. Yes	2. No						
16.	With which political party do you identify?		1. Democratic	2. Independe	ent 3. Rep	ublican				
17.	Does your family have a religious preference?	1.	No 2. Ye	es II	f yes, please circle denomination.	the				
	1. Episcopalian, United Church of Christ, Pre	sbyt	erian.							
	2. Methodist, Lutheran, Disciples of Christ, C	hristi	an, Central Christian,	Disciples of Ch	rist, First Christian,	Northern				
	Baptist, Reformed (such as Christian Reformed).									
	3. Southern Baptist, Church of Christ, Evang	elica	l/Fundamentalist, Naz	arene, Pentec	ostal/Holiness, Ass	embly of				
	God, Church of God, Adventist.									
	4. Catholic	8.	Christian Scientist							
	5. Jewish	9.	Unitarian-Universalis	t						
	6. Church of Latter Day Saints	10.	Other							
	7. Jehovah's Witness									
18.	If you worked off the farm or were self-employe	ed in	1988, how much net i	ncome did you	earn?					
	1. Less than \$2,500			6.	\$30,000\$39,99	9				
	2. \$2,500\$4,999			7.	\$40,000\$49,99	9				
	3. \$5,000\$9,999			8.	\$50,000\$59,99	9				
	4. \$10,000\$19,999	•		9.	\$60,000\$69,99	9				
	5. \$20,000\$29,999	•		10.	Over \$70,000					
19	What percent of your family's net income for 19	988 v	was derived from your	off farm work?		%				
	On an average, how many hours per week do									
24	Would you recommend farming to your childre	n or	another relative? 1. `	res 2.	No 3. Not	sure				