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# **Determinants of Farm Size and Structure**

Proceedings of the program sponsored by the NC-181 Committee on Determinants of Farm Size and Structure in North Central Areas of the United States, held January 6, 8, and 9, 1990, in Albuquerque, New Mexico.

*Boehlje*/Alternative Models of Structural Change in Agriculture and Related Industries

Hornbaker and Denault/Recent Changes in Size and Structure of North Central Agriculture: A Study of Selected States in the North Central Region

Ahearn, Whittaker and Glaze/Cost Distribution and Efficiency of Corn Production

Atwood and Hallam/Farm Structure and Stewardship of the Environment

Casler/Firm Level Agricultural Data Collected and Managed at the State Level

*Carlin and Saupe/*Structural Change in Agriculture and Its Relationship to Rural Communities and Rural Life

Tweeten/Government Commodity Program Impacts on Farm Numbers

Helmers, Watts, Smith and Atwood/The Impact of Income Taxes on Resource Allocation and Structure of Agriculture

*Cooke and Sundquist/*Scale Economies, Technical Change, and Competitive Advantage in U.S. Soybean Production

Janssen, Stover and Clark/The Structure of Families and Changes in Farm Organization and Structure

Stanton and Olson/The Impacts of Structural Change and the Future of American Agriculture

Iowa State University Ames, Iowa 50011 December 1990

## STRUCTURAL CHANGE IN AGRICULTURE AND ITS RELATIONSHIP TO RURAL COMMUNITIES AND RURAL LIFE

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#### Introduction

We have witnessed a major transformation of rural America away from farming as the dominant industry to economies based on manufacturing and services, most of which are not farm related. Over the last 40 years, the contribution of farming to the personal income of rural people has declined substantially. In 1950, at the beginning of the rapid decline in farm numbers, over 2,000 nonmetropolitan counties in the 48 contiguous states were "farming dependent", i.e. at least 20 percent of total earnings came from farming. By the early 1980's, only 505 nonmetropolitan counties could be so designated (Figure 1). Manufacturing, government, recreation, and retirement are among the industries now dominating most rural economies (4).

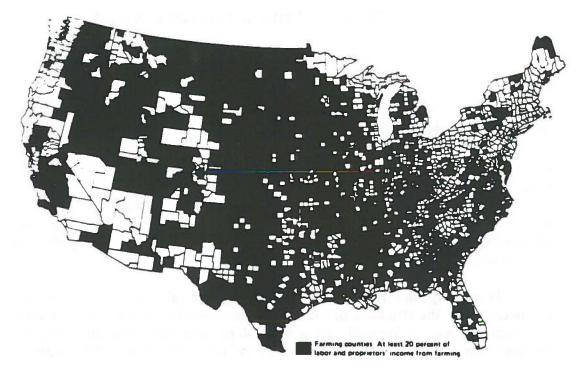
This change in rural America's economic base reflects the major transformation that has occurred in the structure of the U.S. farming sector. Since 1950, the number of farms has declined over 60 percent and average farm size has more than doubled. The farm resident population declined from over 23 million persons in 1950 to less than 5 million today.

In this chapter we focus on the synergistic nature of the relationships between farm structure and rural communities. We discuss how farm structure affects the communities in which the farms are located, and how in turn community attributes affect the organization of farming. We emphasize that the relationship has a two-way effect.

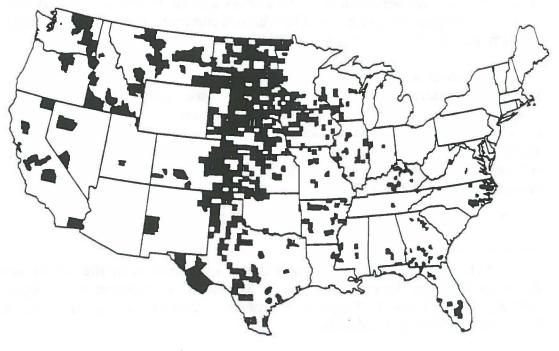
However, we would first note that structural change in farming is only one of several factors that determines the nature of rural communities (18). Proximity to larger urban centers, the adequacy of transportation and communication systems, the presence of mineral or forest resources, the recreational attributes of the area, a restructuring of the retail sector, government initiatives for community economic development, and the original settlement patterns and cultural beliefs (28) can all contribute to rural community characteristics and change.

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Farming-Dependent Counties, 1980-84\*



\* Twenty percent or more of total earnings in the county for the period 1980-84 were from farming.

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Likewise, rural community characteristics are but one of several factors affecting farming structure. The physical and social geography of the area including soil type and topography, precipitation level and seasonal distribution, length of growing season, access to water, demographics of the farm operator population, Federal farm commodity programs, public and private investment in research and development of technology, and Federal and state farm credit and tax policies can all influence the structure of farming.

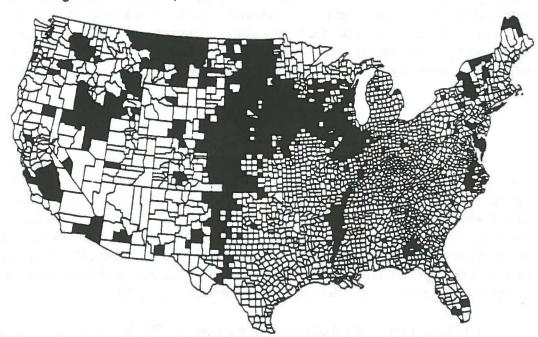
#### The Synergistic Relationship

Discussion about the structure of U.S. farming typically features national level statistics about the number and distribution of farms by variables such as sales, tenure, operator age, etc. Yet, the structure of agriculture at the national level is the summation of a diverse set of regional and local farming sectors. For example, farming in the vast, sparsely settled western Corn Belt and Northern Plains is different from farming undertaken at the urban fringe or in the Appalachian region (1). As a result, the small farm component of U.S. farming dominates farms in the South whereas the large farm component dominates farms in the western Corn Belt and Plains states (Figure 2).

Utilizing a conceptual approach developed by Babb, we postulate that the structure of a local farm sector is influenced by international and national policies and events (33), as well as the attributes of the local area (3) (7). Sommer and Hines, for example, identified U.S. counties most affected by the swings in farm exports (29). Unraveling the complex relationships between national and international policies and the local community's farm structure is outside the bounds of this report. We are instead concerned with the local community or region's interaction with local farming structure.

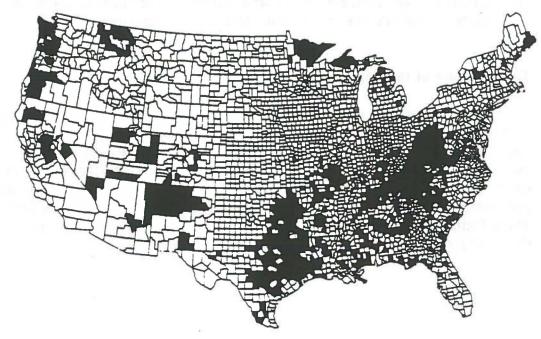
#### The Structure of the Local Farming Sector

Formulating structural relationships in a way that emphasizes their great diversity around the nation opens the door to a much broader discussion of factors affecting local farm structure and the relationship of farm structure to the local economy. Prominent on most lists would be factors directly related to farming. These include potential enterprise combinations suitable for the area, availability of water, level of technology adopted by local producers, land characteristics, level of capital investment in the local farming plant, etc. These factors are distributed differently across the United States, and they influence the way the local farming sectors evolve over time.



### U.S. Large Farm Counties, 1982\*

\* Less than 59.3% of farms with 1982 gross farm sales of less than \$40,000.



# U.S. Small Farm Counties, 1982\*

\* 88% or more of farms with 1982 gross farm sales of less than \$40,000.

A local community's nonfarm economic activities affect local farm structure because they provide alternative uses of labor, land, and capital. As such, they establish the opportunity cost for farm resources. Included here are situations where farm resources are underemployed, and thus local nonfarm economic activities are in fact complementary to farming.

A wide variety of other variables including population size and settlement patterns, human capital, and public services influences local farm structure. Human capital, which encompasses formal and informal education, health, and aesthetic and recreational experiences, affects the productivity of labor both on and off the farm. Population size and public sector relate to the patterns of demand for land and the level of private and public services a community can maintain. These variables, in concert, influence the structure of the local and consequently the national farming sector.

#### **Regional Economics Concepts**

We draw from regional economics for the paradigms to use in discussing the effect of farm structure on the local economy (26). Export base theory suggests that the economic vitality of a community depends on the production of goods and services that can be exported to an external market. In the case of farming communities, the local economy is developed around activities associated with producing, transporting, processing and marketing farm products. Sometimes only a limited number of these activities are performed in the local rural community. The food processing industry, for example, is predominately an urban industry with two-thirds of the establishments and three-fourths of the employment located in metropolitan areas (10).

Central place theory provides tools to understand where economic activity is clustered in the region. Community trade and service activities depend on the distance people will travel to purchase goods and services, the costs of providing goods and services, and the size of market needed to earn minimum acceptable profits. Some trade and service activities depend more on the volume of the export commodity produced (e.g. some farm inputs) whereas others depend on population size (e.g. retail trade).

If the export industry is experiencing employment declines (e.g. farming) and there are limited employment opportunities in other local industries, then population outmigration likely occurs, threatening the viability of consumer based services. This in turn can lead to a decline in the community's business district. If the process proceeds long enough, it becomes difficult for the community to maintain adequate public services; soon the community can no longer maintain itself as a viable entity. In this way the role of various communities in the region changes as economic activity adjusts itself spatially to accommodate the new economic and social environment.

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Welfare theory draws attention to the distributional impacts of changes in the national economy, the farming economy, and the regional economy. For example, development and adoption of cost-reducing and output-increasing farm technology can lead to increased agricultural production, lower farm prices and incomes, accelerated farm exit, reduced trade and income in some sectors of the local rural economy, but lower cost food for consumers. Public intervention in this process is a political decision, but social scientists can articulate the alternatives and their differential impacts.

#### How Farm Structure Affects Communities

There is a rich body of literature on the effect of farm structure on the local rural community.

#### **Goldschmidt and Critiques**

Goldschmidt's classic study of the effects of farm scale on community life was part of a series on how business enterprises affected the social, cultural, and economic environment. Published in 1946, it focused on two similar California towns, Arvin and Dinuba, and is generally considered the genesis of this area of research (13).

The towns selected were in the Central Valley of California, of similar size, and with similar total value of agricultural production by the surrounding farms. He considered their major difference to be in the size of farm, with farms near Arvin averaging 497 acres compared with 57 acres near Dinuba. However, in the latter community, three-fourths of the farms were fully owned by their operators, versus about one-third near Arvin.

The central theme from this work was that community vitality was enhanced in the area dominated by owner-operated family farms. Goldschmidt found that occupational grouping was the greatest contrast between the two communities, as 65 percent of Arvins' employed work force were farm laborers and 11 percent were farm operators, compared with 29 and 34 percent, respectively, in Dinuba. By his measures Dinuba also enjoyed a higher standard of living, the public service needs of the people were better answered, the schools were better, and the citizens had a higher level of participation in community institutions than in Arvin. Retail sales were about twice as great in Dinuba as in Arvin.

Goldschmidt concluded that because the large farms near Arvin were dependent on migrant wage labor, they fostered a skewed and segregated class structure. As a result, the working class was poorer, less educated, and more alienated than the middle class small farmers from Dinuba (24).

Gilles and Dilecki note that at least 17 studies have examined the relationship between agriculture and socioeconomic well-being since 1972, most supporting Goldschmidt's thesis, but some with contradictory findings (12). They fault the Goldschmidt analysis for not making distinctions among structure of farming, farm size, land tenure, and farm labor systems, and for drawing conclusions about change from cross-sectional analysis.

Hayes and Olmstead examined Goldschmidt's data and method and concluded that because of methodological flaws his study offered little support for his conclusions (14). Goldschmidt had used four criteria to compare the two communities to establish that they were closely matched regions and differed importantly only in the size of farms that surrounded them. In examining the data, Hayes and Olmstead found instead that Arvin had experienced a one-third increase in population during a four year period shortly before the study, Dinuba had been platted and promoted by the railroad as a development scheme while Arvin had emerged as a community more than 15 years later, Arvin was near the center of a substantial oil-bearing region while Dinuba had no known petroleum deposits, and that the farm costs of irrigation were twice as high in Arvin. The authors concluded that too many differences other than farm size were present to accept the Goldschmidt interpretation.

#### **Modeling Structural Impacts**

Heady and Sonka examined the effects of alternative farm structures on several economic variables including the secondary income effects on nonfarm sectors. They noted that the nature of the farming sector implied that reductions in net revenue and farm income would have resulted from the structural change in American agriculture since the 1920s. To prevent inequities between farmers and consumers, Federal policy intervened with extensive farm programs, but little attention was given to other rural groups adversely affected. They concluded that the nonfarm sector in rural areas (the communities) bore the major costs of structural change in farming (15).

Heady and Sonka addressed the interrelationships between such communities and the number and size of farms using the Iowa State University national linear programming model with some 150 production areas and 31 consuming regions. The impact of an agriculture composed of different sizes of farms on farm prices, location of production, farm income, number of farms, farm labor, consumer food costs, and the income generated in the rural nonfarm and agribusiness sectors were evaluated.

Four different farm size structures were used, one of which reflected the current farm size distribution, and served as the control. The other three represented a national agriculture composed of small, medium, or large farms. Differences in farm output among the farm size systems were carried forward in the model through the impacts on farm income, income from activity in the agribusiness sector, and income from sales of consumer goods. Compared with the control, a farm structure dominated by smaller farms resulted in 16.5 percent greater income generation in nonfarm businesses in rural communities (but with some regional differences), and also the greatest total net farm income. However,

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because of the large number of farms in this alternative, per farm net income was less than half that of the control. Under the small farm system, food costs were about four percent higher for consumers than in the control.

Their results emphasized the tradeoffs among producers, consumers, and rural communities among the alternative farm size structures. The large farm system, for example, would result in per farm income one-third higher than the control, four percent lower food costs for consumers, but 16 percent less nonfarm income generated in the rural communities.

Henry, Somwaru, Schluter, and Edmonson examined some effects of an agriculture composed of fewer medium-sized and thus more large farms on the nonfarm economy, adding another dimension to the Heady and Sonka analysis (19). Their analysis controlled for the total level of sales to users of farm products while the size distribution of farms was varied. To do this they merged a farm income and production expense account into the national input-output model and with a partitioned Leontief inverse technique examined the direct and indirect changes in input use resulting from changes in the farm size distribution.

They concluded that within the nonfarm sectors, the locally oriented service and trade sectors would be required to produce more output and thus would benefit from a farm structure dominated by medium sized farms instead of larger farms. While this would be a cost to society, it would be a benefit to rural communities where the additional demand for local goods and services would reside.

#### **Community Analyses**

Henderson, Tweeten, and Schriener examined how community retail businesses change as a result of changes in farm structure (18), and found that the effects on retail businesses vary by community size. In their study area, the farming dependent Oklahoma Panhandle, the smallest communities lost the most market share, caused by a shift in farm induced demand for goods and services, as the number of farms and crop acreage declined, and in spite of an increase in per farm income.

There was a smaller decline in the market share of mid-sized communities and the largest communities actually increased market share. The number of the smallest communities having retail businesses declined. There was also a shift in the regional employment structure with employment declines in building materials, grocery, gasoline, and miscellaneous retail businesses. On the other hand, employment increased in apparel, furniture, and restaurant businesses. The authors conclude that community hierarchies are not static and adjust to changes in farm structure. In general, farm structural change that features reduced farm numbers, etc, results is the growth of larger communities at the expense of nearby small communities.

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Additional information about both the positive and negative effects of the farm sector on rural communities is contained in a report by Stone. He noted that the adoption in the past of machine and chemical technology by farmers had contributed to the trend toward fewer but larger farms, which in turn had resulted in gradually declining retail sales for some rural communities. That trend had been accelerated by the development of regional shopping centers, improvement in highways, and fuel efficient vehicles. The farm financial circumstances of the 1980's accelerated the rural to urban shopping trend. However, this was in fact a reversal of a 1970s trend in Iowa, in which small town resurgence was driven by increased retail sales of farm equipment, automobiles, building materials, and by other farm oriented businesses (31).

Several other studies including those by Heffernan and Lasley (16) and Markousek (21) also examine the effect of different farming structures on the nonfarm sectors, including the public sector. They all examine in some way the tradeoffs between farmers and the nonfarm sector under alternative farm structures. With some exceptions and regional differences, they in general suggest that the nonfarm sector of rural communities fare better under a farm economy dominated by small and medium sized farms.

Rural lay persons' views of farm-community linkages may also be of interest. The perceptions and opinions of members of the county government, community officials, and farmers in a southern county regarding how farmers affect communities were reported by Moxley and Liles (22). Among the positive responses were that farmers are retail customers, they operate an (export base) industry that brings outside money into the community, and they are a major property tax payer. Taff also mentions the property tax, noting that it is the most important source of revenue for most local jurisdictions and is a major link between the farming sector and the local community (32).

#### How Communities Affect Farm Structure

The U.S. rural economic transformation that occurred during the last twenty years has resulted in the decline of farming as a source of rural employment and income. By the early 1980's, farming accounted for less than 10 percent of total earnings in almost 60 percent of all nonmetro counties in the contiguous United States (2). As the economic influence of farming wanes in most rural areas, future structural changes in farming will have less effect on rural communities. When rural communities grow as a result of nonfarm influences, the local farming sector may be altered by the new economic and social environment. In these cases, the research question might be posed differently. How do changes in the community affect the local farm sector? Obviously, the answers differ depending on where the community is located.

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#### **Community Case Studies**

There were a number of case studies conducted from the late 1950's through the 1970's which examined the effect of rural nonfarm employment growth on the local farm sector. Bertrand and Osborne studied in 1959 the effect of a wood products plant locating in a rural community in southeastern Louisiana. Agriculture in that area was characterized by small marginal farms, indicating the existence of underemployed farm labor resources (5). The researchers found that farm operators who were employed in the plant made little change in their farming operations.

Fuller in 1960 studied the effect on farming of a manufacturing plant locating in north central Pennsylvania (11). Fuller found that few of the sample farm families actually took jobs at the plant and, for those that did, there were negligible changes in their farming operations.

Maitland and Friend in 1961 reviewed the results of five studies of rural industrialization in Iowa, Utah, Mississippi, and Louisiana (20). All the areas were characterized as small, low income farming areas. The percent of plant employees who were farmers ranged from 7 to 25. In general, industrial employment was associated with a decline in the farm operator's contribution of farm labor and subsequent substitution of unpaid family labor.

Scott and Chen in 1973 modeled the effects of industrialization (new steel rolling plant) on the farm sector in Putnam County, Illinois (25). Using a three-stage linear programming model involving six representative farm sizes, the authors concluded that small farmers could benefit because of their underemployed labor resources. They could decrease labor-intensive livestock enterprises, continue with crop production and take off-farm jobs. The authors assumed that the prevailing nonfarm wage rate, the opportunity cost of farm labor, would increase. Faced with higher labor costs, large farmers could also substitute less labor intensive enterprises. The net result would be higher and more evenly distributed income in the local farm sector and general economic stimulus in the community.

In general, the literature suggests that increased nonfarm employment opportunities in a rural community are related to positive increases in total family income for small farmers and are also associated with a change towards less intensive farming operations.

The perceptions and opinions of persons in the local county government, community officials, and farmers regarding how communities affect farmers may be of use. Moxley and Liles reported such views from a southern county (22). Among the positive responses were that the community provided retail services, off-farm job opportunities, seasonal hired labor for farmers, credit institutions, agricultural Extension Service, local grocery stores, local recreation services, local health services, good roads, rural water system, seed and fertilizer retailers, farm product buyers and processors, and feed mills. The community also provided the leadership in developing a Federal grant request for a livestock processing plant and in

pursuing improvement in highways. Negative responses referred to competition for hired labor, and property taxes assessed by local governments.

#### **National Studies**

Carlin and Green, in a national study, examined the effects of the community on the structure of the local farming sector (7). They arrayed counties from lowest to highest using the proportion of farms in a county with gross farm sales of less than \$40,000 and divided the array into quartiles. Mapping these counties reveals significant geographic groupings across the United States with large-farm counties concentrated in the Midwest and small-farm counties concentrated in the South.

Compared to small-farm counties, large-farm counties have a relatively small population and employment base and farming is a larger component of the local economy. They are also characterized by population decline or slow population growth. Large-farm counties are less likely to be in or adjacent to a major metropolitan area, making commuting to work more difficult. A high proportion of the land area is in farming, testifying, in part, to the favorable physical geography of the region.

The results suggest that the structure of the local farming sector is influenced not only by conditions within that sector but also by conditions in the local nonfarm sector. Conscious decisions on the part of local community leaders to attract nonfarm employment to their communities are likely to alter the structure of the local farming sector.

Henderson and Brooks, in a follow up study to Carlin and Green, suggest that the farmers in large-farm counties use a different farm management strategy than those is small farm counties (17). Farm operator households allocate their resources among alternative farm and non-farm activities in order to maximize family welfare. The physical and locational environment of large-farm counties correlates with management strategies that take advantage of economies of farm size, extensive crop production, part-ownership, and full-time farm employment. This reflects, in part, a lack of nearby nonfarm employment opportunities, thus expanding the farm business is the most practical way to increase family income. The physical and locational environment of small-farm counties favors strategies of diverting farm labor to full-time, off-farm employment and smaller less capital intensive fully owned farms. These alternative management strategies collectively are reflected in the structure of the local farming sector.

#### Markov Chain Analyses

Edwards', et al. farm structure analysis using the longitudinal Census of Agriculture file yielded very useful information that has altered some of our farm structure paradigms (9). For example, changes in farm size display a great deal of symmetry; for every farm that was likely to increase in size, there is one that is likely to decrease is size between census years. Previous research used synthetic models that usually specified that farms either grew or exited the system. While this research contributed significantly to our understanding of farm structural change, conventional analysis that uses a stable transition matrix to project future farm structure is troublesome because it is doubtful that the relations observed in the transition matrix constructed for a specific time period remain constant over time.

Smith explored ways to accommodate this concern (27). Following the lead of Stavins and Stanton (30) in their analysis of New York dairy farms, Smith used multinomial logit functions to develop nonstationary transition probabilities for the U.S. model based on the 1974-78 transition matrix. Exogenous variables that he included in his analysis were age of the existing operator population, extent of off-farm work by the existing operator population, change in farm product prices, change in farm asset prices, and change in nonfarm incomes.

While the independent variables considered had little or no explanatory power for many of the cells in the matrix, for mid-sized commercial farms the proportion of operators age 65 and older in 1974 was positively associated with the probability of exit by 1978. Where statistically significant, nonfarm income growth was positively related to the probability of declines in farm sales and negatively related to farm growth. The proportion of operators working off the farm 200 days or more was positively related to the probabilities of both exit and growth for small commercial farms. That is, the combination of full-time off-farm work and a farm of this size is not sustainable; operators tend either to leave farming completely or increase their farm size to improve total income. Smith demonstrated that including these variables in the model resulted in better projections of farm structure.

Peterson, in a follow up study to Smith, notes that the structural change in the size distribution of farms in the U.S. is related to a variety of economic-demographic forces which have impact on strength and survival of agricultural operations (23). His methodological study also involves the development of a technique that deals with the variability in Markov Chain matrices over time, allowing the measurement of changes in selected structural measures. His empirical results for change in U.S. agriculture during the mid-1970s indicated the importance of demographic variables in changes among size classes of farms. The percentages of farm operators over age 65 and under age 35 and the percentage working off-farm 200 days or more were the most important variables.

#### Farm Dominance in the Community

Ahearn, Bentley, and Carlin examined the relationship between individual farm financial stress and the extent to which farming dominates the local economy (2). Their results point to important relationships between the well-being of farm operator households and the characteristics of the counties in which they live. These relationships can be observed both through the farm household income statement and the farm balance sheet.

Off-farm incomes are important for sustaining many farm households. The larger and more diverse the nonfarm sector in the local economy, the more likely that farm household members will be able to obtain nonfarm employment to help maintain household income and maintain the farm business. The more dependent a county's economy is on farming the larger the average size farm and the less likely the operator is to work off-farm. There are fewer alternative opportunities for the use of farmer's labor in farming counties, thus there are incentives for farmers to expand their farms to achieve fuller employment and higher income.

Even though there are differences in the observed allocation of farm household labor among the county types, there were no major differences in total economic risk among the counties. That is, a farm household is as likely to report economic risk in a farming dependent county as in a nonfarming dependent county.

There are, however, substantial differences in the type of economic risk observed among the county types. In general, the more a county depends on farming, the more likely a farm household is to be in a financially risky position as opposed to low income position. This suggests that community characteristics can affect a farm household's well-being through the balance sheet. Land values are affected by expectations about the ability of the land to generate income. Thus, in counties dominated by farming activities, land values will be sensitive to expectations about farm income. In counties dominated by nonfarm industries, competition from alternative users of farmland will ameliorate declines or actually increase farmland values, thus strengthening the equity position of farmers. Even though farmers, as a group, reduced their total debt burden during the 1980's, debt reduction could not keep pace with falling land prices; thus the sector's equity position deteriorated. It appears that farmland owners in farming dependent communities bore the brunt of asset value declines.

The lower incidence of low income in farming dependent counties was a bit puzzling. One explanation might lie in Government payments. Farms in farming dependent counties specialize in producing those crops included in Federal farm commodity programs. Sixteen percent of the farms and 23 percent of agricultural sales were in farming dependent areas, but they received one-third of direct Government payments in 1986. Government payments played a role in ameliorating economic stress in farming dependent areas; without direct Government payments economic stress would have surely been higher in farming dependent counties during the mid 1980's.

Deaton and Weber indicate that among the issues that emerge from the interrelationships between the agricultural economy and the community is the effect of expanding nonfarm employment opportunities on the farmer's perception of risk, with implications for the selection of farm product mix, the technology used in production, and

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the capital intensity in farming (8). Risk analysis has often been from the view of the farmer as an entrepreneur whose major focus is on markets, prices, credit, and technology. Risk analysis, however, should also recognize the allocation of farm household labor between farm and nonfarm employment. They suggest that risk averse farmers may be more likely to participate in nonfarm employment. Similarly, risk averse farmers may be more likely to turn to off-farm activities once size economies in farming have been exploited. In regions where geography does not favor farming, the risk averse farmers may prefer full-time off-farm employment to farm expansion.

#### **Community Population Growth**

Dimensions of changes in farm "structure" include the number of farms, farm size, changes in the value (mix) of farm resources, shifts in enterprise mix, off-farm employment, and importance of other income to farm households. While causes of structural change include technological innovation, Federal farm policy, and changes in general economic conditions both domestic and abroad, these are not useful in explaining relationships between farm structure and community structure.

The experiences of recent decades suggest that community structure may have more effect on farm structure than vice-versa. This is because the economic bases of rural communities have become more diversified and because about one fourth of all farms (and value of agricultural production) are close to urban centers. Using an analysis of variance procedure with county data, Brooks, Reimund and Peterson found that the rate of change in farm structure variables over the decade of the 70s differed by the rate of total population growth in the region and the degree of urbanization in the county (6). They found that increases in the number of farms could not be attributed to regional increases in the total population, while decreases in land in farms was associated with urbanization of the county. Farmers in metro and adjacent counties shifted to less labor intensive types of farming compatible with off-farm employment. High population growth rates in the region were associated with increased likelihood that farms were operated by full-owners, perhaps because they were the smaller, part-time farms of urban workers.

#### Conclusions

In this chapter we have discussed the synergistic, two-way relationship between farm structure and the local community. The linkages between farm structure and community characteristics operate in both directions. The more a local area depends on farming the more likely that changes in the fortunes of the farm sector will be felt in the local community. Farming communities are in essence a special case of the "one company town".

However, farming has been a declining source of both employment and income in most rural areas and the chances of it becoming a major driving force for future rural

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economic growth are low at best. Farm employment has been declining even in relatively "good times" for farmers. While there are farm input and processing industries in local communities that "depend" on the well-being of the farm sector, much of the farm input and processing employment is metropolitan based. Those who advocate keeping the farm sector strong to "preserve rural America" should note that this argument applies to fewer and fewer places as the decades pass.

As communities diversify and grow, it becomes more likely that changes in the community will affect the structure of the local farming sector. Analyses of how community characteristics affect farm household well-being and farm structure will be a useful approach for students of farm structure as they attempt to understand where the farm sector is heading.

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#### Additional Material

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