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ABSTRACT

Using a developmental stages model, the extent and characteristics of manufacturing development in the nonmetropolitan South between 1940 and 1970 were examined. Focus was on whether industrialization comes in different phases and whether its impact on the rural poor varies during each phase. Nonmetro labor markets (counties more than 50 miles from the central city of a Standard Metropolitan Statistical Area--SMSA) of the South and Indiana were compared. Data were collected through: (1) statistical time-series (mainly the "Census of Manufactures" and the "Census of Population") and (2) field interviews. In each of six multicounty areas (selected because their nonfarm employment had either grown very rapidly in the 1960's or they had both "success" and stagnating counties) industrial development and antipoverty workers were interviewed in July and August 1974 on the process of industrial development and impact on the poor in their area. Some findings were: (1) distinct stages existed in industrial characteristics, poverty impact, immigration, and community industrial planning; (2) two phases of industrial development were low-wage and labor-intensive and medium-wage and less labor-intensive; and (3) the two phases of industrializatio. differed in poverty impact--a greater percentage of workers hired were poor in the first phase than in the second. (NQ)



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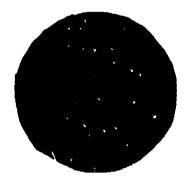
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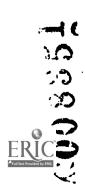
Thomas Till Allen Thompson Ray Marshall



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16. Abstracts

This report uses a developmental stages model to analyze the extent and characteristics of manufacturing development in the nonmetropolitan South, 1940-1970. Statistical time-series and field-research disclose distinct stages in industrial characteristics, poverty impact, inmigration, and community industrial planning.

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Thomas Till January, 1975



Preface

As is well known, the South became the most economically backward part of the United States because of the emergence of a relatively static agrarian system. This system produced a number of economic and socio-political institutions which retarded Southern economic growth at a time when other regions were making significant progress.

These traditional institutions were incompatible with industrialization which was accelerated in the South after 1880. Nonagricultural industrialization therefore has tended to cause the South's economic and socio-political institutional structure to converge with that of the rest of the United States, although many aspects of the traditional South remain, particularly in terms of conditions in rural areas and the problem of institutionalized racial discrimination.

Economic Growth, Incomes, and Employment

Although the per capita incomes of all Southerners have been lower than those of non-southerners for more than a century and a half, rural per capita incomes have been consistently lower than those in urban areas and the incomes of rural blacks have consistently been lowest of all. Many urbanrural and racial income differentials have persisted in spite of significant improvement in the relative economic position of the South as a region, because virtually all of the benefits of recent Southern economic growth have accrued to urban whites whose economic position is roughly equal to that of urban whites outside the South, especially when allowances are made for the lower relative costs of urban living in the South. In other words, the economic development problem in the contemporary South is not the absence of economic growth but rather the fact that the benefits and costs associated with recent income growth have been distributed very unevenly.

This uneven distribution manifests itself in the following ways:

(1) Small farmers were displaced disproportionately, and black farmers were displaced at a much higher rate than white farmers.



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- (2) The number of hired farm workers dropped sharply from 1,043,000 in 1950 to 513,000 in 1969. This decline of 530,000 amounts to roughly 453,000 full-time wage jobs.
- (3) Southern agrarians have experienced increasing underemployment, especially blacks. In 1950, 2.74 million white
 workers filled 1.96 million jobs, i.e., there were about seven
 jobs for every 10 workers. By 1969, 1.19 million white farm
 workers filled .59 million jobs, meaning less than five jobs
 for 10 workers. There were roughly 767,000 non-white family
 farm workers in 1960, and 540,000 non-white full-time jobs,
 about the same ratio of workers to jobs as for whites. However, by 1969, there were about 158,000 non-white workers and
 only 73,000 full-time jobs, a ratio of about 4.6 jobs for
 every 10 workers.
- (4) There has been a significant shift to non-agricultural employment as a source of income for farm families. However, black farm families have been less successful than whites in increasing or maintaining their incomes either from agriculture or off-farm sources.
- impact of rural industrialization in the South on the job opportunities of local area residents, especially the rural poor. For example, a study of the impact of a Kaiser Aluminum plant located in rural West Virginia in 1957, found that of the 4,000 jobs created by the plant, only 600 went to local people -- the rest went to skilled outsiders. Similar findings have been reported in other studies of the impact of rural industrialization in other parts of the South. However, evidence from studies by the ERS, reported below, show mixed results with respect to the impact of rural industrialization on the poor.
- (6) And finally, there is substantial evidence that blacks have not shared proportionately in recent rural non-agricultural employment growth in the rural South.

Poverty

Although the South, defined as the 11 states of the Old Confederacy plus Kentucky and Oklahoma, contained only 27.5 percent of the total U.S. population in 1970, it had 42.5 percent of the nation's poor. The rural non-farm South had 9.0 percent of the population but 18.3 percent of the nation's poverty. The rural farm South, with 1.5 percent of the total



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population, had 2.9 percent of the nation's poor. To put these same data in a slightly different perspective, the South, the rural non-farm South, and the rural farm South had respectively, 54 percent, 53 percent and 98 percent more poverty than would have been the case if poverty were equally distributed among all regions of the nation.

Although there were more poor whites (3,375,100) than poor blacks (2,123,100) in the rural South in 1969, several factors combine to cause black rural poverty in the South to be more severe than white rural poverty. First of all, the incidence of poverty among rural blacks is greater than among rural whites. The average black rural Southerner is roughly three times as likely to be poor as his white counterpart. Secondly, the average poor black family is more deeply impoverished than the average poor white family. Thirdly, racial price discrimination in consumer and resource markets further reduces the real incomes of poor blacks. Fourthly, black families at any observed income level have substantially less wealth than white families.

Outmigration

As a consequence of the growth of non-farm employment, white outmigration from the rural South has been virtually eliminated. However, this growth has had no appreciable effect upon black outmigration. These current migration trends are widening the educational and economic gaps between rural whites and rural blacks and between black outmigrants and black non-migrants. Clearly, successful economic development aimed at blacks in the South would reduce black outmigration.

Education

Both formal and informal learning opportunities for rural Southerners are grossly inferior to those of the general population. Rural Southerners have the highest rates of illiteracy, the lowest levels of educational attainment and the least opportunity to acquire job-related or general knowledge through such non-formal means as the mass media, apprenticeship, adult education programs and manpower training programs. Programs offered by the Extension Service of the U.S. Department of Agriculture through the land grant college system have been a useful source of non-formal education for some rural Southerners, but these programs have discriminated against the poor, and especially the black poor.



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Manpower Training

Manpower programs, which prepare people for present and future jobs, could play an important le in human resource development in the rural South. How r, in spite of its potential, manpower training actually has been very limited in rural areas. Its effectiveness has been limited because of small size, inadequate staffs and equipment as well as the very restricted opportunities for effective on-the-job training.

Health

Of all the measures required for increased development and utilization of human resources in the rural South, none is more important than health which is perhaps the best overal indicator of the quality of life. The inferior health status of rural Southerners can be easily documented. The typical rural Southerner is far more likely to die at birth, to be malnourished, to contract a disease which could be easily prevented by modern medicine, to live in unsound housing, and to drink contaminated water, than his urban counterpart. The health problems of rural Southerners pervade all age groups and seriously undercut the productivity of the rural labor force. For example, the number of days lost from work due to disabling or debilitating health conditions is 20 percent higher in the rural South than elsewhere.

In spite of the fact that the health problems of rural Southerners are more serious than those of other Americans, the rural South has not received its proportionate share of federal expenditures for health. For example, although 45 percent of those eligible for Medicaid lived in the rural South in 1970, only 16 percent of Medicaid funds were spent in the South.

Welfare

Because the rural South contains a disproportionately large number of poor people who cannot or should not work, welfare income maintenance programs are an important adjunct to an effective human resources development and utilization program for this region. Of greatest importance for the future productivity of rural Southerners are the programs which provide direct payments to families which are unable to provide for the care of their children without outside assistance.

ERIC*

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Anti-discrimination

It is apparent that virtually every measure of material well-being shows that rural blacks in the South are worse off than their white counterparts. The basic cause of the disparities in the levels of material well-being for rural blacks and whites in the South is institutionalized racial discrimination which restricts the range of economic opportunities available to rural blacks and which is responsible for the systematic underinvestment in black human resource development which prevents many rural blacks from taking effective advantage of the limited opportunities which are available to them.

Purpose

The purpose of the present study is to explore in greater depth the implications of nonmetropolitan industrialization for the rural poor. The particular question explored is whether or not industrialization comes in different phases and whether or not the impact of industrialization on the rural poor varies during each phase.

Ray Marshall



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Stages of Industrial Development and Poverty Impact in Nonmetropolitan Labor Markets of the South

I. INTRODUCTION

In 1889 a funeral inspired Henry Grady's complaint about the industrial backwardness of the South:

They cut through the solid marble to make his grave, and yet a little tombstone they put above him was from Vermont. They buried him in the heart of a pine forest, and yet the pine coffin was imported from Cincinnati. They buried him within touch of an iron mine, and yet the nails in his coffin and the iron in the shovel that dug his grave were imported from Pittsburgh. . . They buried him in a New York coat and a Boston pair of shoes and a pair of breeches from Chicago and a shirt from Cincinnati. The South didn't furnish a thing on earth for that funeral but the corpse and the hole in the ground.

Today the words sound rather quaint, for the rapid industrial growth of the South in recent decades is well-known. The undertaker would have no trouble outfitting the corpse in Southern manufactures.

However, considerable controversy arose in the 1960's over the question whether metropolitan or nonmetropolitan areas could attract industry without impractically massive subsidies. Some held that the locational advantages of large cities for nonmanufacturing firms were so great that generally

For the skeptical view, see Brian J. Berry, Spatial Organization and Levels of Welfare, paper prepared for the Economic Development Administration Research Conference (Washington, D.C.: February, 1968). The opposing view is presented by Claude C. Haren, "Rural Industrial Growth in the 1960's, American Journal of Agricultural Economics, Vol. 52 (August, 1970), pp. 431-437.



Quoted in Glenn E. McLaughlin and Stefan Robock, Why Industry Moves South (Washington, D.C.: National Planning Association Committee of the South, 1969), p. 3

only nonmetro counties within commuting distance of SMSA's could develop manufacturing jobs. The dispute had great importance for policy, since the main anti-poverty and anti-unemployment strategy of agencies such as the U.S. Economic Development Administration and local Chambers of Commerce was to attract industry, especially manufacturing jobs.

Recent research indicates that those who believed in the practical possibility of nonmetro industrialization in the South were clearly incorrect. Comparison of manufacturing growth in Southern counties over 50 miles from an SMSA with that in SMSA's reveals that the distant nonmetro counties not only grew at a faster rate in the 1960's than the SMSA's, but also scored impressive gains in manufacturing employment. (Table 1.) 5

But how does industrialization take place in nonmetro labor markets? Why does one area succeed and another fail? Does it occur in stages? And what benefit, if any, do the



2

Wilbur R. Thompson, A Preface to Urban Economics (Baltimore: Johns Hopkins, 1965), pp. 33-36; and Berry, op. cit. However, the stages of industrialization in this report can be regarded as corallaries to Thompson's trickledown theory of the spatial-temporal industrial development process (confer Thompson, op. cit., pp. 39-40).

Haren, op. cit. and Till, "The Extent of Industrialization in Southern Nonmetro Labor Markets in the 1960's,"

Journal of Regional Science 13 (December, 1973), pp. 453-461.

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Further data on Southern sub-regional and state patterns can be found in Till, <u>Rural Industrialization and Southern Rural Poverty in the 1960's (unpublished Ph.D. dissertation, University of Texas at Austin, 1972; available from University Microfilm, Ann Arbor, Michigan), Chapter 2.</u>

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Table 1

Total Wonfarm Employment and Manufacturing Employment Changes of Southern Counties, 1959-1969, by Distance from the Nearest SMSA The Extent of Rural Industrialization in Thirteen Southern States:

	Number of Counties	Total Nonfarm Employment 1959	Total Nonfarm Employment Change, 1959-1969 Number Percen	farm ent 59-1969 Percent	Manufacturing Employment 1959	Manufacturing Employment Change, 1959-1 Number Per	Manufacturing Employment Change, 1959-1969 Number Percent
SMSA Counties: Total	153	5,660,076	2,811,677	49.7	1,604,903	701,916	43.7
Counties 0-50 Miles From SMSA: Total	295	2,050,630	177,686	48.3	963,604	505,508	52.5
Counties Over 50 Miles From SMSA: Total	553	1,379,489	674,345	48.9	505,585	308,972	61.1

. Texas, Oklahoma, Arkansas, Louisiana, Mississippi, Tennessee, Alabama, Georgia, Florida, South Carolina, North Carolina, Virginia, Kentucky. The County Business Patterns definition excludes government workers, domestic servants, and the self-employed. U.S. Department of Agriculture. State Unemployment Insurance data and the 1958 Census of Manufacturing Since individual county data in the 1959 County Business Patterns were not provided for the states of Texas, Georgia, these states were those generously provided by Claude Haren of the Economic Research Service of the and Kentucky, the individual estimates of 1959 total nonfarm and manufacturing employment used for were used to split the combined data of the County Business Patterns into these individual county Nonfarm and manufacturing employment from County Business Patterns, 1959 and 1969. SOURCE:

poor receive? These are the main general questions investigated in the research.

The findings do not pertain to the whole United States. Different patterns may exist in the North, the West, and the Plain States. The only areas investigated in this research are the nonmetro labor markets of the South, with an examination of Indiana for comparison purposes. (Indiana was chosen because of proximity to the author.)

Statistical time-series (drawing mainly on the Census of Manufactures and the Census of Population) are used to compare the rates of job growth over the decades since 1940. However, the main methodology used were field interviews. Six multi-county areas were chosen from Map 1, generally because their nonfarm employment had either grown very rapidly in the 1960's or because they had "success" counties and stagnating ones as well. They were also selected to represent different areas of the South. (The areas chosen, and the counties included, can be seen on Map C-1 and Table C-1). In each area industrial development and anti-poverty workers were interviewed on the process of industrial development and impact on the poor in their area. Most of the interviews were conducted in July and August, 1974. Evidence from case studies and field interviews is, of course, never definitive. But it can reveal the concrete richness and variety of the development process, and assure that



Δ

⁶Bird indicates that quite different patterns occurred in sparsely settled nonmetro areas, and in the Great Plains and Mountain States. (Alan Bird, <u>Migration and its Effect on Agriculture and Rural Development Potential</u>, Washington, D.C.: U.S. Department of Agriculture, 1972).

⁷Nonmetro labor markets are operationally defined as counties more than 50 miles from the central city of an SMSA, since workers in closer nonmetro counties commute extensively to SMSA jobs.

⁸In this report the South stands for the 13-state region composed of the states of the Confederacy plus Kentucky and Oklahoma; thus, Alabama, Arkansas, Florida, Louisiana, Georgia, Kentucky, Oklahoma, Mississippi, North Carolina, South Carolina, Tennessee, Texas, and Virginia are included.

explanatory academic models are not irrealistically at loggerheads with reality. The conclusions of this report are based primarily on these interviews, and secondarily on statistical time-series of employment. (The list of these interviewed may be found at the end of this report.)

II. RESEARCH RESULTS

A. The Industrialization Process.

First, the greatest boom decade since World War II for manufacturing in Southern nonmetro labor markets was the 1960's. Of roughly 800,000 manufacturing jobs in 1969, slightly more than 300,000 had been gained since 1959 (Table 1). Also, data for "success" and "failure" counties in the border South reveal that the highest rates of growth since 1947 were between the late fifties and late sixties (Table 2). The case study counties selected for field research show the same trend (Table 3). Second, not all nonmetro areas benefited from this growth. Previous research has shown that the border South, especially the white, hill-country areas, gained most of the jobs. Delta areas of the border South, deep South areas, and the plains areas of western Texas and Oklahoma generally stagnated (Table 4 and Map 1).

Third, the main attraction seems to have been the labor force, specifically, the lower wage levels, abundant labor



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⁹Several officials confirmed that the greatest growth in their areas had been in the 1960's [Interviews with Cotton (Chamber of Commerce, N.E. Miss.); Barrett (Employment Security Center, Tenn.); Fields, (State Ind. Development Board) and Christy (Chamber of Commerce, N.W. Ark.)]. For fuller references to these and following interviews, please consult the "List of Interviews."

¹⁰ Tests showed that the nonmetro South had lower wage levels than the rest of the South or the nation as a whole (confer Till, Journal of Regional Science, loc. cit., p. 460).

Table 2

The Border South^a, A Summary Table:
Rates of Change of Manufacturing Employment, 1947-1971

Coun	ties	Annua	l Rate of Cha	nge
Category	Number	Total 1947-58	Manu. Employ 1958-67	ment 1967-71 ^b
Total	113	2.5%	5.6%	4.3%
Success	86	2.6	5.9	3.3
Failure	27	1.8	-2.4	16.0

al00% coverage of "success" and "failure" growth counties in Arkansas, Kentucky, North Carolina, Tennessee, and Virginia. For a list of these counties, confer Appendix B, Map B-1

SOURCES: (1) For 1947, 1958, and 1967 employment - U.S. Department of Commerce, Bureau of Census. Census of Manufacturers. Washington, D.C.: U.S. Government Printing Office.



Less reliance should be placed on these rates because of comparability problems between County Business Patterns and Census of Manufacturers.

⁽²⁾ For 1971, United States Department of Commerce, Bureau of Census. County Business Patterns. Washington, D.C.: U.S. Government Printing Office.

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Table 3

Six Sduthern Case-Study Areas : Employment Patterns By Key Industries, 1940-1970

								EMPLOYMENT				
		Number			Cha	nge,		Change, 1950-1960	196, 1960		Change,	.ge,
	Category	Counties	1940	1950	Number	ber Percent	1960	Number	Percent	1970	Number	Percent
H	All Success Counties Total Agriculture Mining	52	171,577 76,647 1,174 23,904	197,279 57,693 1,944 33,325	25,702 -18,954 770 9,421	15.0 -24.7 39.4	191,998 30,691 1,804 45,551	-5,281 -27,002 -140 12,226	-45.8 -7.2 36.7	238,308 11,398 2,256 71,742	46,210 -19,293 452 26,191	24.1 -62.9 25.1 57.5
ä	All Failure Counties Total Agriculture Mining Manufacturing	2	135,370 46,220 30,958 14,555	143,852 35,048 31,761 19,213	8,482 -11,172 803 4,658	-24.2 2.6 32.6	120,003 15,571 14,636 19,416	-23,849 -19,477 -17,125	1.1 5.55.6 1.1 1.1	121,011 7,579 10,931 23,416	1,008 -7,992 -3,705 4,000	0.8 -51.3 -25.3
ii.	All Counties Counties Total Agriculture Mining	5	396,947 122,867 32,132 38,459	341,131 92,741 33,705 52,538	34,164 -30,126 1,573 14,079	11.1 24.5 36.6	312,001 46,262 16,440 64,967	-28,320 -46,479 -17,265 12,429	-8.3 -50.1 -51.2 23.7	359,219 18,977 13,187 95,158	47,218 -27,285 -3,253 30,191	46.85.0 46.80.0

The six areas are the Central Appalachians (Kentucky, Tennessee, Virginia, and North Carolina); Central Tennessee; Northwest Arkansas; Central Louisiana; Southeast Missispi-Southwest Alabama; and Northeast Mississippi. For the list of counties in each group, confer Appendix C, Map C-1, and Table C-1.

SOURCE: U.S. Department of Commerce, Bureau of the Census. Census of Population (1940, 1950, 1960, and 1970). Washington, D.C.: Government Printing Office.

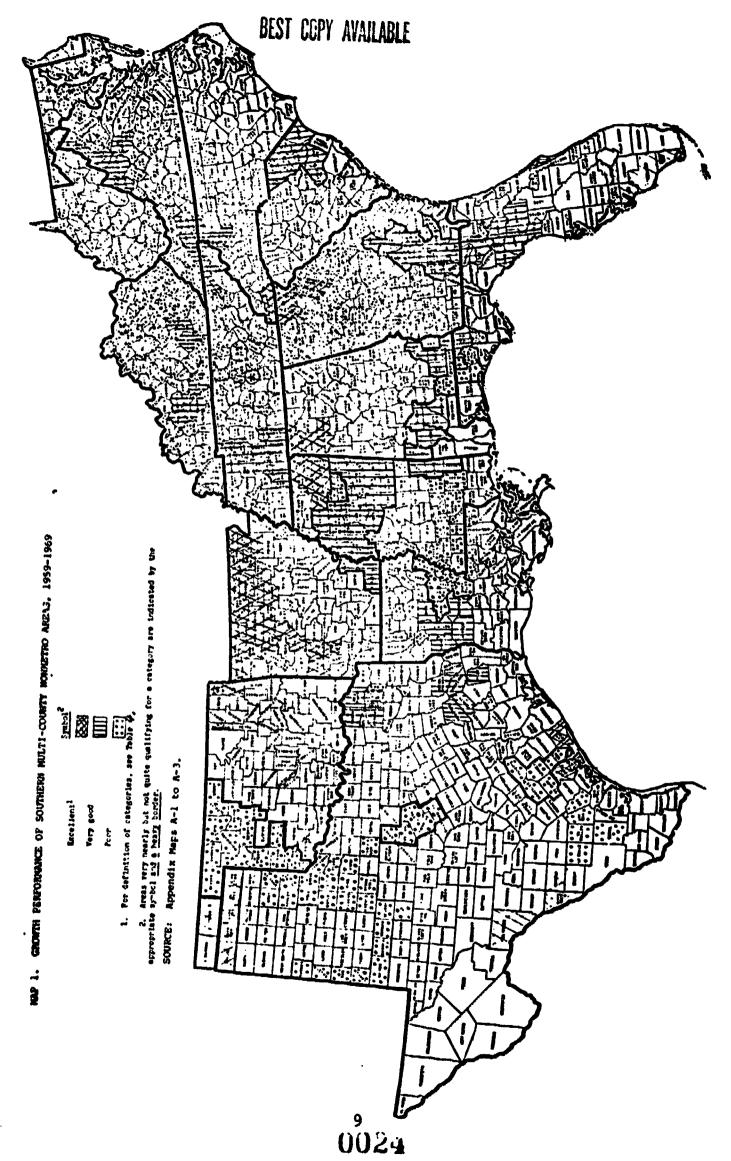
Table 4

Criteria for Growth Performance on Map 1 Growth Performance by Groups of Counties^a

Category	Failure Counties	Success Counties
Population Change,	At least 75 percent of counties lost population	At least 75 percent of counties gained population
1960-1970		20 percent of counties grew faster than the nation (13.3 percent)
Manufacturing	50 percent grew less than	66 2/3 percent grew twice as
Change,	nation (34.5 percent)	fast as nation (over 69 percent)
6061-6661	20 percent had absolute	90 percent grew faster than
	decline	nation (34.5 percent)
Total Nonfarm	66 2/3 percent grew less than	50 percent grew twice as fast
Employment	the nation (34.5 percent)	as nation (over 49.2 percent)
Change, 1959-1969	25 percent had absolute decline	75 percent grew faster than nation (over 24.6 percent)

On Map 1, since the concern is with nonmetro labor markets, SMSA counties and those less than 50 miles from a metro area are left blank. Also, omitted are areas whose growth performance in the 1960's was mixed. Consequently, only nonmetro labor markets of conspicuous growth success or stagnation are indicated.







supply and the absence or relative weakness of unions. 11 The border South also was preferred because of greater closeness to markets and the reputation of having a "prime work-force" (i.e., people accustomed to hard work, long hours, and disinclined to unionize). Also, there was general agreement that local leadership to obtain industry was more vigorous in the hill-country border South in the 1960's. 12

Fourth, specific stages of development ordinarily can be discerned. Most areas start out specializing in agriculture. An alternative in heavily-wooded areas is timber, where small logging camps and sawmills were the main manufacturing activities. Since farm and logging-sawmill jobs have declined greatly, and outmigration was not sufficient to clear the market of excess labor, this resource-oriented stage led to a large labor surplus. Relative labor surpluses and lower wage levels attracted marginal, labor-intensive manufaucturing from the high-wage, unionized North. The most conspicuous of these marginal activities were in textiles, apparel and shoe manufacturing. Thus, the first phase of industrial development was (and is) typically low-wage and labor-intensive, which -whatever its disadvantages -- accustoms the labor force to basic habits of factory discipline. This in turn helps attract primarily labor-oriented, medium-wage and more capital-intensive manufacturing like electrical and nonelectrical machinery and transportation plants that moved to the nonmetro South in large number for the first time in the 1960's 13 (Table 5).



¹¹ Interviews with Christy, Chamber of Commerce, N.W. Arkansas; Newcomb, S.E. Mississippi Economic Development District; and George, Tyrone Hydraulics, N.W. Mississippi.

¹²Interviews with Wilkerson (N.W. Arkansas Economic Development District); Neel and Newcomb (S.E. Mississippi Economic Development District). The border South comprises the states of Arkansas, Kentucky, Tennessee, North Carolina and Virginia.

¹³

Everyone agreed that the low-wage firms had come first, and that it was natural for this to lead to better paying firms. However, there was considerable disagreement over whether this low-wage stage could be skipped.

Table 5

Ten-State South: Leading Manufacturing Industries, By Share of Total Manufacturing Jobs, 1959-1969, In Nonmetro Labor Markets

	1959		Change,	Change, 1559-1969		1	1969	
SIC Number	Share	re	SIC Number	Share	re	SIC Number	Share	re
And Industry	Percent	Number	And Industry	Percent	Number	And Industry	Percent	Number
Total	100.0	383,879	Total	100.0	239,222	Total	100.0	623,103.
23-Apparel	17.7	67,964	23-Apparel	24.2	57,773	23-Apparel	20.2	125,737
24-Lumber	17.5	67,088	36-Electrical Machinery	12.7	30,419	24-Lumber	6.6	61,854
20-Food	11.0	42,045	37-Transportation Equipment	8	21,301	20-Food	8.4	52, 398
22-Textiles	9.7	37,058	28-Chemicals	8.5	20,264	28-chemicals	8.3	51,961
28-Chemicals	8.3	31,697	25-Furniture	6.3	15,163	22-Textiles	7.7	47,523
26-Paper	e. 9	24,142	35-Nonelectrical Machinery	4.5	10,664	36-Electrical Machinery	5.9	36,604
31-Leather	3.2	12,169	22-Textiles	4.5	10,865	25-Furniture	4.3	26,783
25-Furniture	3.0	11,620	20-Food	4.3	10,353	26-Paper	4.4	27,401
33-Primary Metals	1.8	6,938	30-Rubber and Plastic Products	9.6	9,369	37-Transportation Equipment	3.9	24,426
36-Electrical Machinery	1.6	6,185	34-Fabricated Metals	3.9	9,203	31-Leather	3.0	18,742
34-Fabricated Metals	1.6	5,971						

County Business Patterns, 1959, 1969. Washington, D.C.: U.S. Department of Commerce, Bureau of Census. U.S. Government Printing Office. SOURCE:

Thus we have two phases of industrial development -- the first low-wage and labor-intensive; the second, medium-wage and less labor-intensive. 14

Fifth, these two phases seem to have distinct characteristics concerning unionization. In the low-wage stages, unions are either weak or nonexistent. Fierce competition leads these companies to be vigorously anti-union; and the workers' low skill and education levels, labor surpluses, and the ease with which these labor intensive industries can move to other areas makes unionization almost impossible. In fact, scattered evidence shows that to be known as a union town -- especially one characterized by frequent work stoppages or violence -- is a definite obstacle to development. In the medium-wage phase the situation changes. Here usually one-third to one-half of the manufacturing labor-force is organized. These

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This was considered to be one of the prime problems of the eastern Kentucky coal area, with its history of conflict between the United Mine Workers and the owners (interviews with Fields [Kentucky State Industrial Development Agency] and Forester [Employment Security Bureau, Harlan, Kentucky]).

17

Roughly one-third of the factory labor force in Cookeville was unionized; one-half in Fayetteville; 40 percent in Hattiesburg, Mississippi (interviews with Leslie [Chamber of Commerce, Central Tennessee]; Christy [Chamber of Commerce, N.W. Arkansas]; and Runnels [Industrial Development Board, S.E. Mississippi]).



12

¹⁴Other sequences occur (they will be noted later). But they are exceptions to this general rule. The exceptions normally concern firms which are resource-oriented in their locational decisions.

¹⁵For further evidence on this point see: Ray Marshall's Labor in the South, (Cambridge, Massachusetts: Harvard University Press, 1967).

companies are generally less resistant to unionization, and the larger concentration of plants makes unions drives more rewarding. Also, the labor surplus is usually smaller. Thus, unionization seems to take care of itself, the labor force gradually unionizing as development proceeds. However, even in this second phase, unions are far weaker than in the North.

Sixth, community planning for industrial development also seems distinctly different in the two phases. Initially communities are willing to accept any financially solid firm, since their need of jobs is so desperate. Of the tendency for apparel and shoe factories to demand large subsidies, there is the most danger in this stage that communities will "pay too much" for the prospective plant. In the second phase, however, the situation is different. Industrial planners become much more selective. Apparel and other low-wage firms generally are not welcome. Also, lower subsidies are provided -- often only the offfer of revenue-bond financing. 21



13

¹⁸ Several agreed that it was a process which naturally happened, and that better-wage plants are not concerned about the presence of unions (interviews with East [1st Tennessee-Virginia Economic Development District]; Christy [Chamber of Commerce, N.W. Arkansas]; and Leslie [Chamber of Commerce, Central Tennessee]).

¹⁹ In Cookeville a few apparel companies had closed down their plants rather than accede to union demands (interview with Carr [Upper Cumberland Economic Development District, Central Tennessee]). In Fayetteville, although the manufacturing labor force was one-half unionized, the claim was that the unions did not exist where plants strongly opposed them (interview with Christy [Chamber of Commerce, N.W. Arkansas]).

²⁰Towns such as Fayette, Mississippi are still in this situation (interview with Evers, Mayor; and Baroni, Economic Development Committee, Fayette).

²¹ Industrial development officials in booming areas such as Fayetteville and Harrison, Arkansas; Cookeville, Tennessee; and Johnson City, Tennessee would not even talk with apparel firms. The second stage city of Hattiesburg, Missippi was also not interested, although it would refer the firms to one of the more isolated counties in the district which has experienced less development (interviews with Christy and Dunlap [Chamber of Commerce, N.W. Arkansas]; East, [1st Tennessee-Virginia Economic Development District, Eastern Tennessee]; and Runnels [Industrial Development Board, S.E. Mississippi]).

A potential bottleneck often appears early in the second phase. Because of better-paying plants and frequent tight labor markets, lower-wage plants find it difficult to obtain the same workers they found during earlier stages of development. Consequently, they begin to urge chambers of commerce (CoC) and industrial development commissions to relax their efforts to attract new firms.²² Since industrial development groups often seek to improve the industry-mix by attracting better-paying plants with more attractive working conditions, the conflict can become bitter, leading even to secession of various industries from chambers of commerce.²³ If the low-wage groups were successful, the industry-mix might stagnate. However, the overwhelming response of industrial development officials interviewed for this study was that they have enough support to continue their effort to attract better firms.

Seventh, conflict between the phases -- or, more accurately, during the second phase -- raises interesting questions for the future. First, will the second phase nonmetro area evolve into a third phase -- a relatively high-wage, unionized stage similar to the industrial North? None of the areas has yet reached this point, but it is the next "logical" step. Second, will the low-wage firms, increasingly restive in the tighter labor markets of the second phase areas, "spin-off" (or, at least, establish their expansion plants) in the remaining labor surplus areas of the South -- the Delta and Deep South heavily black areas? If so, these areas might undergo the same two-phase industrial development during the 1970's that the border South experienced in the 1960's. would be good news indeed to labor surplus areas, but empirical evidence for this "spin-off" theory is still quite limited. Of our two case-study areas in the Deep South, one, in central Louisiana near Alexandria, reported a marked increase in the number of apparel firms inquiring into and locating in central Louisiana since 1970. However, neither the eastern Kentucky



²²

Every chamber or industrial development official attested to this pressure, but maintained that it was not stopping efforts for a better industry-mix.

²³

This actually occurred in Harrison and Conway, Arkansas.

nor southeast Mississippi areas (centered on Hattiesburg and Laurel, Mississippi) reported this trend. 24

Hattiesburg exemplifies an eighth point. We have already referred to labor-surplus areas like the Mississippi Dalta and the Deep South, which are still largely in the low-wage phase of industrial development. However, even within the booming development district of the Border South, generally only the main population centers have attracted better-wage plants and have a tight labor market. The less populated and isolated counties of the district are still generally in the low-wage stage, if they have any plants at all. 25 Although commuting to the main center provides good jobs for many, others live too far away, the roads are too bad (especially in the winter), or they lack a car to get to the job. 26° Opinions were virtually unanimous that the most serious poverty problems occur in these isolated areas only partially affected by the manufacturing boom. Job development, in other words, has not spread evenly over booming multi-county nonmetro areas in the Border South, but has been concentrated in growth centers -often the largest town and those located on an interstate highway.²⁷

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Interviews with Luke and Wright (Alexandria, Louisiana); Forester (ES, Harlan, Kentucky); and Runnels (Industrial Development Board, S.E. Mississippi).

25

Interviews with East (1st Tennessee-Virginia Economic Development District, Eastern Tennessee); Young (Community Action Agency Director, N.W. Arkansas); Dunlap (Chamber of Commerce, N.W. Arkansas); and Runnels (Industrial Development Board, S.E. Mississippi).

26

Interviews with Young (Community Action Agency Director, Harrison, Arkansas).

27

For example, the Director of the Kentucky State Industrial Development Division stated that quite a few plants had located on the Interstate running south from Lexington. but that it was almost impossible to get them to consider sites further east.



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Eighth, attention so far has been focused on manufacturing employment because it is the key dynamic sector in the economic base of nonmetro areas. However, many areas of the South - especially the hill country, Border South - are quite beautiful and contain much potential for tourism and service jobs. In Northwest Arkansas, "Dogpatch, U.S.A." (a Disney-type amusement park near Harrison) and a "Passion Play" (a dramatic re-enactment of the Passion of Jesus) bring in tens of thousands of tourists each year, and create numerous jobs in motels, restaurants, and retail craft and souvenir shops. Most of the jobs are low-wage, but, as I was frequently told, "some job is better than no job." Also, the dammed-up lakes of the Ozarks and the T.V.A. region provide not only tourist attractions (fishing, boating), but also amenities attractive to management of prospective plants. 29

A final proviso is that locationally labor-oriented manufacturing plants typify the nonmetro South, but are not the whole story. In the plains areas of western Texas and Oklahoma, manufacturing growth was not only less than in the Border South, but it was of a different locational type -resource-oriented, rather than 1%bor-oriented. Some apparel firms had come for women, but manufacturing jobs for men were in packing plants, firms manufacturing fertilizer (W.B. Grace in Woodward, Oklahoma), or adapting planes for crop-dusting, etc. 30 Thus manufacturing jobs, to a much larger degree, evolved from the prosperous farming, ranching, and oil-producing base. Because of the relatively high-wage jobs for men in oil and ranching and a tight labor supply, a predominately resource-oriented manufacturing develops. However, even in many more eastern Border South areas, resource-oriented manufacturing firms have some importance -- a prominent example being the paper and furniture industries tied to many of the South's vast timber reserves.31

Ninth, some of the few case-studies of the impact of manufacturing -- such as Gray's study of the Kaiser aluminum plant in West Virginia³² -- are of high-wage plants that come to an area because of it resources, even if no plants have

³² Irwin Gray, "New Industry in a Rural Area," Monthly Labor Review 92 (June 1969), pp. 26-30.



²⁸Interview with Wilkerson (N.W. Ark. Eco. Dev. District).

²⁹Interview with Christy (Chamber of Commerce, N.W. Ark.), and East (1st Tenn.-Va. Eco. Dev. District, Eastern Tenn.).

³⁰ Interviews with Poorbaugh and Ard, (St. Dept. of Indus. Dev., Okla.); and Middleton (Chamber of Commerce, Woodward, Okla.).

³¹ These were important in the Tenn, N.C. and La. case-study areas.

preceded them. These cases exist, but they are not typical of Southern nonmetropolitan industrial development, which is usually locationally labor-oriented. Consequently, generalizations from them can be very misleading.

Another special case emerges when an area starts with highwage unionized plants. This is true of Eastern Kentucky (coal mining), Central Louisiana (paper mills), and Natchez, Mississippi (paper mill and tire plant). Generally, this seems to have impeded job development. It almost certainly scares off the low-wage plants. In central Louisiana the problem in one area was handled by locating a unionized apparel plant in a town with a paper mill. 33 But Natchez officials complained that low-wage plants were being scared off. 34 If the labor history has been one of work stoppages and violence, the obstacle to further industrialization apparently becomes greater. As has been mentioned, industrial development officials in Kentucky stated that it was almost impossible to get firms to consider Eastern Kentucky, mainly (but not only) because of "labor climate."

Finally, political factors might affect industrial development. Industry will not go where it is not wanted. If the leadership in a town has made its wealth from other sources (coal, farming, etc.) and is satisfied with the status quo, manufacturing firms probably will not come. It must be eager enough so that it will make the necessary sacrifices (preparation of industrial sites or industrial parks with adequate gas, water, and sewage hookups and adequate access to transportation, and employment of a competent chamber official (if the town is large enough). Otherwise, the prospective plant will go elsewhere since the town is competing with many other areas possessing such an infrastructure. 35

B. The Impact of Industrialization on the Poor

The two phases of industrial development have different degrees of inmigration. In the first phase, gross inmigration is very slight. The wage-level is so low that few are attracted back. Further, high unemployment and underemployment typically are deterrents. In the second phase, inmigration is much heavier, since



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³³ Interview with Luke (Ind. Dev. Board, Alexandria, La.).

³⁴ Interview with Hawthorne (Chamber of Commerce, Natche, Mississippi).

³⁵ Interview with Wilkerson (N.W. Ark. Eco. Dev. District); and Fields (State Ind. Dev. Agency), Kentucky.

the labor market is often tighter and wages in the newer plants are more attractive. The ERS study (Table 6) lends some empirical support to these generalizations. The first phase area of the Arkansas Delta had considerably less inmigration than the second phase areas of Mississippi and Arkansas. The first phase area of Arizona had heavy inmigration, but this may well be due to the heavy return migration of Indians for cultural reasons. 36

The common opinion that "if a high-wage plant is attracted, inmigrants, not the local poor, will be hired because the skill-level is beyond the reach of the poor" may not be typical. 37 In none of the four ERS areas did inmigrants hold more than one—third of the jobs. The average of the four areas was only 21.8 percent (Table 6). Thus, these cases support the conclusion that most of the manufacturing jobs go to non-migrants, although low-wage jobs are also involved. A significant exception, how-ever, is when a high-wage firm (generally it is resource-oriented) locates in an area where few or no factories have preceded it. In this instance -- especially if job-training facilities are deficient -- the majority of hires may well be inmigrants. This seems to have been the case with the Gray study of the Kaiser plant which located in rural West Virginia. Unfortunately this exceptional case has been made typical of impact on the local labor force.

Moreover, inmigrants are not mainly management-level personnel from the North and West. Typically, more than half of them are remigrants -- individuals who left the area because of inadequate job opportunities, but are anxious to return (at least, this is true of rural whites) when good jobs open up, even if wage levels are lower. The gains in psychic income seem important here.

Also, the sterotype of regarding inmigrants as predominately well-off executive personnel or high-skilled blue and white-collar workers seems poorly supported. In the ERS study, less than one out of ten (9.6 percent) of returnees earned over \$120 a week in 1970, while three out of four (76.8 percent) had less than \$100.38a Inmigrants seem to be three groups:



³⁶Interviews with Smith (N.E. Mississippi) and Leslie (Cent. Tennessee) also revealed that outmigration was smaller and return migration heavier than in earlier first phase years.

³⁷This commonly-held opinion seems to have been based on a few studies such as Gray's. Of the 4,000 jobs in the Kaiser plant, only 600 went to local people.

³⁸ Economic Research Service, Migrant Response to Industrialization in Four Rural Areas, 1965-1970 (by Duane A. Olsen and John A. Kuehn), AER Report No. 270 (Washington, D.C.: U.S. Department of Agriculture, September 1974), Table 3, p. 9.

³⁸a Ibid., Table 5, p. 10.

Inmigration of Workers, Four Study Areas 1970

	Total	Inmig	Inmigrants
Study Area	Workers	Number	Percent
Northeast Arizona	1,270	305	24.0
Mississippi Appalachia	2,600	470	18.1
Northwest Arkansas Ozarks	1,980	624	31.5
Arkansas Delta	879	71	8.1
Total, Four Areas	6,729	1,469	21.8

Calculated from United States Department of Agriculture, Economic Research Service, Impact of Job Development on Poverty in Four Developing Areas, 1970 (by John A. Kuehn et al.,). Agricultural Economic Report No. 225. Washington, D.C.: U.S.D.A., June 1972. Page 5, Table 2. SOURCE:

Tippah counties), the northwest Arkansas Ozarks (Benton and Washington counties) and the Arkansas delta (Cross, Lee, and Saint Francis counties). The method Further, The four nonmetropolitan growth areas chosen by ERS were northcast Arizona only direct impact was measured (that of jobs provided in the new or expanded omployment in retail trade) were not measured. Despite the limitations, howsignificantly expanded since 1965. Since only 27 of the 56 plants agreed to 25 percent of the employees of plants which had either arrived since 1964 or cooperate, and since various problems often made the sampling fraction less used was a plant questionnaire, distributed during the winter of 1970-71 to (Apache and Navajo counties), northeast Mississippi Appalachia (Alcorn and output linkages) or induced (as through the effects of increased incomes on plant). The number and impact of jobs indirectly created (through inputthan 25 percent, the resulting sample was not strictly representative. ever, the results were highly interesting and valuable. 1) the high-skilled referred to above, 2) relatively unskilled and poorly educated workers who return because they "couldn't make it" in the big city, 39 and 3) workers whose distaste for big city life was not overcome by higher wages there. 40 Either of the latter two groups could have high percentages of poor. The ERS study found that 14.6 per cent of poor workers were migrants. Of the poor inmigrant workers 49.3 per cent were lifted out of poverty. 41 This supports the idea that help to inmigrant poor is also an important welfare benefit of industrialization.

In order to put the evidence in proper perspective, two additional points should be emphasized. The first is that the evidence on the impact of industrialization in the areas where it occurs is not conclusive. We are not inferring that economic development has done a great deal for the poor throughout all rural areas. This brings up the second point, namely, that industry tends to bypass certain rural areas almost entirely. The most notable areas bypassed by the growth of manufacturing employment had been those with heavy black populations. Indeed, if we superimposed maps showing areas with rapid growth in manufacturing employment on maps showing heavy black population concentrations, there would be an almost perfect mismatch - industry tends to avoid heavy black population concentration. Moreover, blacks do not receive a proportional share of good jobs even in areas with heavy black population concentration. 42

According to field interviews, industry tends to avoid black areas for a number of reasons. Although whites tend to emphasize labor market characteristics as a reason for avoidance, blacks give greater weight to the continuation of discrimination. Blacks with characteristics similar to those of whites who get rural jobs are found to migrate out of rural areas in search of employment. How-



³⁹Hathaway, Dale E. and Brian B. Perkins, "Occupational Mobilty and Migration from Agriculture," in <u>Rural Poverty in the U.S.</u> A Report by the President's National Advisory Commission on Rural Poverty (Wash., D.C.: Government Printing Office, 1968), pp. 185-237

^{40&}quot;An Abundant Source of Labor," reprint. Available from Industrial Development Div., Ken. State Dept. of Commerce, Frankfurt, Kentucky.

⁴¹This is derived from Table 7.

⁴² James Walker, "Economic Development, Black Employment, and Black Migration in the Nonmetropolitan Deep South" (Ph.D. dissertation, Univ. of Texas, Dec., 1973). Prepared under Office of Economic Opportunity Grant 61202, Action 2.

ever, employers tend to emphasize other factors as reasons for avoiding black areas: 1) the probability of recruiting workers for black areas who meet the companies' hiring standards is less than it is from white areas, 2) blacks tend to join unions more readily than whites, 3) the companies' personnel problems might be exacerbated by employment quota or "goals and timetables" affirmative action plans if they moved to counties with very large black population majorities and 4) blacks have been mainly sharecroppers, with limited amounts of education, training or nonfarm work experience. Indeed, in this view, sharecroppers have learned very little even about farming and the management of personal economic affairs because most of these decisions were made by planters.

Secondly, the two phases of industrial development have different characteristics with respect to the tightness of labor markets. Typically, the low-wage stage is characterized by relative labor surpluses. However, in the second phase, as in many areas of the Border South, the number of incoming plants is sufficiently large to cause labor markets to become tighter. Even with inmigration, low-wage plants have trouble finding enough workers during this second phase. (Of course, while this seems factually true, there is no necessity that it be so. Logically, we could conceive of a low-wage area with a tight labor-market, and a second phase area with considerable slackness; quite a few of the latter actually exist in such large non-SMSA cities of the Deep South, as Alexandria, Louisiana and Hattiesburg, Mississippi.) The degree of labor market tightness obviously has great importance for the poor. In a slack market, the poor suffer because of "creaming." A tight market forces employers to lower hiring standards, thus benefitting the poor. This should also tend to lower discrimination against blacks, since employers are no longer able to hire almost totally from the white labor supply.

A third point relates to the commonly expressed fear that most



⁴³This typically tighter labor market in the second phase is exemplified by the head of the ES in Cookeville, Tenn., who remarked that unemployment was less "than at any time in my memory in the last fifteen years." (Interview with Mrs. Evelyn Bartlett, Cookeville, Tenn., Oct. 1973). Also, the unemployment rates of the first phase central Louisiana and southeast Mississippi areas were considerably more than the second phase northeast Mississippi, northwest Arkansas, Central Tennessee, and Eastern Tennessee areas.

of the poor and less skilled in the South will not be able to qualify for jobs because of low educational levels. The reasoning behind this is that the national average years of schooling for workers in relevant industries is much higher than that of most rural Southerners, especially the poor. Consequently, they will not be able to qualify for the influx of manufacturing jobs. This fear seems unfounded. The universal response in all areas studied is that a high school diploma is not required for production-line type jobs. 44 Only a few of the highest-wage employers in each area require it. 45 For the rest, the main educational requirement is merely to read and write sufficiently to pass manual dexterity tests administered by the plants or the local Employment Security office (ES).46 This was true not only in areas where labor was tight, but in Hattiesburg, Mississippi as well, where the opportunity to cream the surplus labor supply might lead to a tough educational requirement. 47 Because so many of the jobs were assembly-line type and because the high school diploma was desirable but not required, officials in several areas mentioned that GED adult education programs had met with indifferent response. 48 Some, in areas where the vocational training schools were numerous, mentioned that a graduate of one of these programs had better job chances than someone with a liberal arts high school diploma. 49 If accurate, this is another example of the increasing importance of career-oriented education.

A fourth point is that in all areas there was general agreement that employers were very reluctant to hire workers with a



⁴⁴ Interviews with Forester (Emp. Security Bureau, E. Ken.); Bull (Emp. Security Bureau, N.W. Ark.); East and Bartlett and Ingram, (Cent. Tenn.); Cotton and Smith (N.E. Miss.); Hale and Runnels (Miss.).

⁴⁵ Interviews with East (lst Tenn.-Va. Eco. Dev. District); Carr (upper Cumberland Eco. Dev. District, Cent. Tenn.); and Runnels (Ind. Dev. Comm., S.E. Miss.). Christy (Chamber of Commerce, Fayetteville, Ark.) claimed it was generally necessary, but Bull (Emp. Security Bureau, Fayetteville, Ark.) said most employers considered it desirable, but not necessary.

⁴⁶Interview with Hale (Emp. Security Bureau, Hattiesburg, Miss.).

⁴⁷ Ibidem.

⁴⁸Interview with Young (Com. Action Agency, N.W. Ark.) and Hale (Emp. Security Bureau, S.E. Miss.).

⁴⁹Interview with East (lst Tenn.-Va. Eco. Dev. District, E. Tenn.).

record of high turnover in previous jobs. ⁵⁰ These are the workers with the most serious employment problems, who face difficulty being hired even in areas of booming labor demand. Manpower training centers can help this group. Completion of the program is an indication of stability which the worker's previous employment record lacked. ⁵¹ Indeed, one ES Director claimed that employers valued the training at the local MDTA center more for this than for the technical skills imparted. ⁵²

A fifth point is that the two phases of industrialization seem to differ in poverty impact. In the low-wage phase, two contrary trends occur. First, one expects that a greater percentage of workers hired are poor, both because the skill and educational requirements of the jobs are Jower and because the poor are a higher percentage of the labor force. However, there is a greater contrary tendency to "cream" since the labor market is usually more slack than in the second stage. Either of these tendencies could dominate, but the slim evidence we have seems to indicate that niring the poor prevails over creaming. Thus, in the ERS study, a greater percentage of workers hired were poor in the first phase areas of N.E. Arizona and the Arkansas Delta than in the second phase areas of N.E. Mississippi and N.W. Arkansas (Table 7). However, the first phase may raise a smaller percentage of the poor hired above the poverty line, since wage-levels are low, and since the labor market is typically slack and thus offers less 53 opportunity for the second-earner and part-time earner effects.

The conventional wisdom that "low-wage factories offer few welfare benefits to the poor because of low-wage levels" needs to be modified. In all areas officials agreed that the easiest way for a rural poor family (whether farming or not) to rise above the poverty line is not through full-time farming (they lack access to sufficient credit) or through a high-wage job (these are either non-existent or unobtainable by them), but through the part-time



⁵⁰ Interviews with Bartlett (Emp. Sec. Bureau, Cent. Tenn.); Bull (Emp. Sec. Bureau, N.W. Ark.); Smith (Emp. Sec. Bureau, N.W. Ark.); and Hale (Emp. Sec. Bureau, S.E. Miss.).

⁵¹ Interviews with Smith (Emp. Sec. Bureau, N.E. Miss.) and Hale (Emp. Sec. Bureau, S.E. Miss.).

⁵²Interviews with Smith (Emp. Sec. Bureau, N.F. Miss.)

⁵³Empirical evidence does not clearly support this (confer Table 8).

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Table 7

Impact of Job Development on Poverty Status,
Four Study Areas, 1965-1970

Number	Percent of Determined
of Jobs ¹	Joba ² . 3
	
	**
373	100.0
	49.1
	32.4
	24.9
	15.5
	2.2
•	1.4
2,600	
2,368	100.0
441	18.6
401	16.9
315	13.3
281	11.8
69	2.9
56	2.3
1.980	••
	100.0
	19.8
	14.5
-	13.9
	9.1
	4.6
44	2.8
879	
	100.0
	48.1
<u>-</u>	45.8
= 1 T	27.2
	24.8
	i.i
9	1.1
6.729	
	100.0
	25.8
	21.9
	16.5
	13.3
	3.1
114	2.2
	1,270 373 183 121 93 58 8 5 2,600 2,368 441 401 315 281 69 56 1,980 1,572 310 228 219 142 73 44 879 809 389 370 230 201

Represents total jobs enumerated for which a poverty status was associated.

SOURCE: U.S. Department of Agriculture, Economic Research Service, Impact of Job Development on Poverty in Four Developing Areas, 1970 (by John A. Kuchn et al.). Agricultural Economic Report No. 225, Washington, D.C.: U.S. Department of Agriculture, June, 1972, p. 7, Table 3.



 $^{^2}$ Jobs enumerated for which a poverty status in both time periods was determined.

Usage of these percentages assumed that sampled responses were typical of unsampled employees and sampled refusals by plant. Percentages are based on unrounded data.

earner or the second-earner effect. ⁵⁴ Indeed, many mentioned that farmers with a subsistence plot will take a full-time job in a local factory and then farm in the evenings and on week-ends. So we should talk about a "full-time (second-job) effect" as well as the "part-time" and "second-earner" categories. (The opposite of this might be the "go-getter" in the Tennessee Cumberlands area. Among the mountain people, a "go-getter" is defined as the husband who "goes and gets her" [his wife] after she has worked all day in the "cut n' sew" plant. However, if he farms his plot, even this could be an example of the "second-earner" effect!) The essential point is that the wage-level of an individual job is not conclusive. Poverty impact is significant if though the "second-earner," "part-time earner," and "full-time earner" effects, the combined family income rises above the poverty line. Hence, the poverty impact of even the low-wage phase of industrialization can be considerable.

To some extent, the rationale for the role of marginal industry as a way to improve the conditions of the rural poor depends on unique rural conditions and the characteristics of the people involved. We assume that some people will work in marginal jobs wherever they are. This is particularly true of older people with limited levels of education and nonfarm work experience. Because many low income rural families use these marginal jobs to supplement family income from farming and other sources, incomes that appear low by urban standards might have considerable impact on rural family living conditions partly because of the lower cost of rural living but also because of differences in life styles. A given amount of income frequently can have a greater impact on rural than urban families.

During the second phase of industrial development, contrary patterns of poverty impact are also at play. On the one hand, in this phase the percentage of jobs going to the poor would be less than in phase one, since the better-wage plants have higher skill and educational demands, since more inmigrants are hired, and since the percentage of poverty in the local population has declined. On the other hand, low-wage plants will often be forced to lower their hiring standards and stop creaming. Thus the percentage of poor



⁵⁴Interviews with Woody & Price (E. Tenn.); Bartlett (Cent. Tenn.); Young (N.W. Ark.); Boykin & Dandy (Cent. La.); Ingram (Cent. Tenn.); and Woodward (S.E. Miss.). No one disagreed with this.

⁵⁵Interview with Hale (Emp. Sec. Bureau, S.E. Miss.) and Young (Com. Action Agency, N.W. Ark.).

persons in their work forces should rise. Either tendency could be dominant, but the limited empirical studies indicate that a lesser percentage of the hires are poor. Thus the percentage was lower for the Arkansas Ozarks and N.E. Mississippi areas in the ERS study (Table 7). The second question refers to what percentage of workers hired will be raised from poverty. Theoretically, in this phase a higher percentage of poor workers should be lifted out of poverty, since wage-levels are higher and since, generally speaking, the labor market is tighter. The limited empirical data, however, are inconclusive on this question. In the ERS study the net percentage raised out of poverty was higher in N.E. Mississippi, but not in the Arkansas Ozarks, than in the two first phase areas (Table 8).

A sixth point relates to manpower programs, which obviously play a vital part in any anti-poverty strategy. First, manpower programs, including "start-up," were in operation in all of the areas studied. The problem is that the junior colleges or area vocational schools are centered in the largest towns. People in the more isolated counties do not have practical access to these institutions. In eastern Kentucky and eastern Tennessee, however, area vocational schools exist, or are being built, in almost every county of the development district. A second point is that generally OJT and "start-up" type training were regarded as the most effective, since they were tied to existing jobs. However, a few vigorously dissented, claiming that OJT and start-up "creamed," and that only institutional training reached those with the most serious employment problems. The chief criticism of institutional training was that it trained too many in certain occupations. A third point was that in at least one area employees



⁵⁶Interview with Forester (Emp. Sec. Bureau, E. Ken.); Luke & Wright, Ind. Dev., Cent. La.); and Christy (Chamber of Commerce, N.W. Ark.).

⁵⁷Interview with Bartlett (Emp. Sec. Bureau, Cent. Tenn.); Forester (Emp. Sec. Bureau, E. Ken.); Hale (Emp. Sec. Bureau, S. E. Miss.); Young (Com. Action Agency, Ark.); and Woodward (Com. Action Agency, S.E. Miss.).

⁵⁸ Interview with Cotton (Chamber of Commerce, N.E. Miss.);
Bartlett (Emp. Sec. Bureau, Cent. Tenn.); and Christy (Chamber of Commerce, N.W. Ark.).

⁵⁹Interview with Newcomb, S.E. Miss, Eco. Dev. District, and Terhune (State Manpower Administration, Ken.).

⁶⁰ Interview with Boykins and Dandy (Cent. La.).

Table 8

Previously Poor Resident Households Out of Poverty in 1970, Four Study Areas

	Number of Previously Poor		Escaping Poverty	Poverty	
Study Area	Resident Worker Households	Number	oer Net 2	Gross	Percent Net
Northeast Arizona	121	28	53	47.9	43.8
Mississippi Appalachia	401	281	225	70.1	56.1
Northwest Arkansas Ozarks	228	142	86	62.3	43.0
Arkansas Delta	370	201	192	54.3	51.9
Total, Four Areas	1,120	682	568	6.09	50.7

income in the most recent previous job held to determine changes in poverty status. Poverty thresholds were defined as \$2,000 for the first member and \$600 for each additional member. Incomes were inflated to a 1970 base year by the CPI to remove the effect of price changes. Household income in 1970 was compared to household

²The net number equals the number of previously poor residents who escaped poverty (i.e., the gross amount) minus the previously nonpoor who slipped into poverty.

SOURCE: Calculated from USDA, ERS, loc. cit.



were not interested in one manpower program available only to the disadvantaged but favored programs available to the advantaged as well as the disadvantaged. 61 Fourth, there was considerable confusion about what would emerge in the Comprehensive Employment and Training Act of 1973 (CETA), with most feeling that at least at the start the programs would be much as before. 62 In the local area, the agency in charge varied, being ES in Mississippi and the development districts in Tennessee. Fifth, the Corinth and Hattiesburg ES agencies were tied into a computerized Job Bank system for all of Mississippi, and found it most helpful for advising area youth of employment openings elsewhere. 63 Sixth, in almost all areas Community Action Agencies (CAA) had been running the Operation Mainstream and Neighborhood Youth Corps programs. Under CETA they will lose these programs. 64 There was considerable dispute as to why. Some claimed that under CAP, training was poor and administrative costs were too high, sometimes reaching 80 per-The CAA's vigorously disputed this, claiming that administrative costs were kept low, that the 20 per cent ceiling requirement made it impossible to serve the poor with the most problems, and that the basic reason for the switch was simply politics -the local county judges and other political officials wanted the programs under their control, and therefore favored the development districts on which they sat as the board of directors. Seventh, there was general agreement among the CAA's and manpower planners that a good many of the poor need transition training how to fill out a form, act during job interviews, as well as gain the habit of showing up on time, arranging day care, etc. 66 One



Interview with Carr (Upper Cumberland Eco. Dev. District, Cent. Tenn.).

⁶² Interview with Terhune (State Manpower) and Alford (Emp. Sec. Bureau, Cent. La.).

Interview with Hale (Emp. Sec. Bureau, S.E. Miss.) and Smith (Emp. Sec. Bureau, N.E. Miss.).

⁶⁴ Interviews with Ingrams (Com. Action Agency, Cent. Tenn.); Price (Com. Action Agency, E. Tenn.); Banks (Com. Action Agency, E. Ken.); and Woodward (Com. Action Agency, S.E. Miss.).

 $^{^{65}\}mathrm{References}$ can not be given, since these remarks were off-the-record.

⁶⁶ Interviews with Woody (Emp. Sec. Bureau, E. Tenn.); Price (Com. Action Agency, Cent. La.); Ingrams (Com. Action Agency, Cent. Tenn.); and Alford (Emp. Sec. Bureau, Cent. La.).

ES official claimed that WIN training had served this purpose for welfare women in Eastern Tennessee. Finally, the problem of training in a stagnant area was evident in Eastern Kentucky. One ES official put it this way: "We end up training people for Chicago and Detroit."

Moving on from the topic of manpower programs, considerable controversy exists over discrimination against blacks. White officials claimed - even in the Deep South - that good factory jobs were open to blacks as well as whites, and that blacks could and were being promoted to oversee whites. Black officials agreed that progress had been made and that less discrimination existed in manufacturing than in other industries. But they also claimed that much discrimination remained, that companies were reluctant to have whites work under a black, and that there was wide evasion of EEOC regulations. For example, they stated that a black might be hired (because of the EEOC), given a secretary, an office, and an impressive title, but actually have no authority or duties. 69

A final point relates to the OEO economic development activities. In northwest Arkansas loans for a feeder-pig operation and a craft cooperative for the mountain women seemed economically successful for isolated rural families who did not, or could not, commute to work. Also in the same isolated counties OEO staff acted as a substitute ES where the ES arrived only for a few hours each week to handle unemployment insurance. Here the CAA had resisted pressure from higher levels of OEO to buy factories (e.g., canneries) as economic development activities. It resisted on the grounds that job demand was adequate and booming. In this area OEO seemed to fit skillfully and functionally into the economic development activities of the area. In other areas this was not as evident, often because of political opposition or because the CAA seemed to lack business and economic expertise.

Finally, the most serious poverty problems lay in regions where manufacturing simply would not go. The Eastern Kentucky coal fields were an example. Kentucky state industrial development officials stated that manufacturers generally did not even want to



⁶⁷ Interviews with Woody (Emp. Sec. Bureau, E. Tenn.).

⁶⁸Interviews with Forester (Emp. Sec. Bureau, E. Kan.).

⁶⁹These remarks on the whole subject of discrimination were given off-the-record.

⁷⁰ Interview with Yours (Com. Action Agency, N.W. Ark.).

⁷¹Ibidem.

consider sites in eastern Kentucky as a location. 72 The reasons are legion: poor roads, few level sites, backward public services and ugly, coal-dingy towns, and above all the "labor climate": the high-wage and violent conflicts between the United Mine Workers and the coal operators. The only hopeful development is the boom in mining jobs as a result of the energy crisis. 73 But the number of mining jobs is insufficient, and many do not wish to work there (despite high wages) because of the dangers to health and safety. 74

III. TRENDS IN THE INCOME OF FARMERS 75

A. How much of the farmers' income comes from nonfarm sources? What are the trends in the pattern of income sources for farmers?

While historically farm families relied almost exclusively on income from farming operations, including home-consumed products, in recert years nonfarm sources of income have become very important for most families with some farm income. Currently, approximately half of the total income from all farm families comes from nonfarm sources. This change has occurred for several reasons. The technological changes in agricultural production have greatly reduced labor requirements for farm operations and have resulted in surplus hours for operators in farming. This has stimulated farm operators to seek nonfarm employment. Moreover, income from farming, especially for the many small operators, has not been sufficient and thus many of these smaller farmers have sought onfarm employment to bolster sagging family incomes. In addition, the growing number of nonfarm employment opportunities resulting from increased industrialization in or near to many traditionally agricultural areas has provided farmers with means for increasing and stabilizing their incomes. Each of the above-named reasons



⁷² Interview with Fields (Ken. State Dept. of Commerce).

⁷³ Ibidem.

⁷⁴ Interview with Dixon (Emp. Sec. Bureau, E. Ken.).

⁷⁵Text and data for this section were generously provided by Professor Allan Thompson, Assistant Professor of Economics, Whittemore School of Business and Economics, University of New Hampshire at Durham. Professor Thompson's work is part of the Small Farmers Project being done at the Center for the Study of Human Resources, the University of Texas at Austin, under contract with the Southern Regional Council.

(mechanization, low income, and rural industrialization) have stimulated growth in nonfarm employment for wives of operators and other members of farm families. Finally, the composition and characteristics of families with farm income has changed. tionally, except for farm laborers, families with farm income were largely farm families, i.e., families who resided on and operated a farm as the primary or exclusive income-generating operation. However, today many persons are working off the farm and many others see farms as excellent investment opportunities where one can speculate on land values while at the same time enjoy tax advantages from operating farms. These "hobby farms" have grow. rapidly in number in the past several years. For these "farmers" nonfarm income is the primary source and because their nonfarm incomes are likely to be substantial, the growth in "hobby farms" has contributed to the decline in percentage of income received by farm families from farm sources.

The current status and trends in the importance of farm income can be seen from the data in Tables 9-12. Table 9 shows the family income from farm and nonfarm sources for families with farm operations. Farm income includes not only net cash sales but also government payments and home-consumed commodities. Table 10 shows the percentage of family income from farming for selected years by This table is derived from the data in value of sales class. Table 11 shows the income by source in constant dollars. The data here is also derived from Table 9 using the consumer price index for all items (1967=100) as the deflator. Tables 9-11 are each derived from the figures in the Farm Income Situations for July, 1973, and are for the entire United States. Table 12 shows the distribution of farm operators in the South by days of off-farm work and economic class of farm. To make the figures comparable with the above Tables 9-11, all three categories of farms with sales under \$2,500 have been included under class six farms.

The percentages of family income vary greatly by farm size in terms of income. In 1972, more than three-fourths of the income for larger farm operations (\$20,000 and more of farm sales) was derived from farming. For the smaller farms (\$10,000 and below) some three-fourths of the family's income was from non-farm sources. The percentage of income accounted for by farm operations in 1972 ranged from better than 80 percent for the largest size farms to only 10 percent for the smallest farms. As Table 9 indicates, the picture of nonfarm and total family incomes by size of farm operations is somewhat complicated. Nonfarm income is absolutely highest for farms with lowest sales. Moreover, the average family income for the smallest size farm compares favorably with the income of families between \$10,000 and \$20,000 worth of farm sales. It should be remembered, as will be described later, that within each of these categories there is a wide diversity of patterns of income and importance of farm operations.



Table 9

Income For Farm Operator Family, by Major Source And by Value of Sales Classes, 1960-72

\

			,				
			Farms	With Sales	Ø		
	\$40,000	\$20,000	\$10,000	\$5,000	\$2,500	Less	
	and	t	ಭ	to	to	than	A11
Year	over	\$29,999	\$19,999	666'6\$	\$4,999	\$2,500	Farms
			J	Dollars	 	• • • • •	1
					Į.		
			Realized Net	let Farm Income	come		
1960	19,035	8,630	5,356	3,299	1,958	854	2,962
1961	21,325	9,273	5,723	3,498	2,057	910	3,306
1962	21,245	9,166	5,701	3,424	1,991	606	3,418
1963	21,717	9,064	5,638	3,320	1,908	868	3,522
1964	Q	9,556	5,997	3,486	1,985	951	3,786
1965	25,422	10,068	6,268	3,547	1,974	988	4,169
1966	ဖ	11,585	6,818	3,671	2,064	1,027	5,015
1961	ω	10,437	6,194	3,352	1,880	974	4,498
1968	4	10,869	6,367	3,415	1,893	997	4,783
1969	30,022	12,012	6,793	3,555	1,929	1,036	5,598
1970	29,246	11,712	6,621	3,463	1,876	1,015	5,685
1971	N	10,534	5,940	3,090	1,675	943	5,233
1972	٣,	11,927	6,736	3,533	1,929	1,061	6,856



Table 9 (Continued)

			Farms	With Sales			
	\$40,000	\$20,000	\$10,000	\$5,000	\$2,500	Less	Äll
Year	over	\$29,999	\$19,999	666'6\$	\$4,999	\$2,500	Farms
			Q	Dollars	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
			Off-	Off-Farm Income			
(2 177	1 678	1,258	1.573	1,849	2,730	2,139
1360	11117	21011	1 441	1,864	2,130	3,047	2,416
1961	2,585	1,010	1691	2,163	2.417	3,372	2,699
1962	3,022	1,957	1,054	20.506	2.754	3,783	3,041
1963	3,503	761.2	7 056	2,815	3,055	4,119	3,338
1964	3,959	2,306	2,036	3,200	3,425	4,614	3,733
1965	4,403	2,490	2,463	3.498	3,769	5,226	4,109
9967	4,400	2 695	2,588	3,709	4,016	5,596	4,361
1961	n -	7000	2,849	4.054	4,395	6,191	4,800
1968	5,133	10617	000		4,790	6.936	5,256
1969	4	3,213	3,009)) •)	•
0		£03	3.448	4,884	5,340	7,815	5,876
1970	601.0		7 634	5 129	5.616	8,310	6,196
1971	6,532	3,812	3,024	344		9040	6,759
1972	6,673	4,000	3,895	2,268	04140	•	•



Table 9 (Continued)

\$9,999 Dollars Including Irm Food an 4,872 5,362 5,587 5,826	come Includ m Farm Food 614 4, 164 5, 33: 5,
S9,9 Dollars Includ I'm Food 4, 5, 5,	\$19,999 \$9,9 Dollars Income Includ From Farm Food 6,614 4, 7,164 5, 7,33: 5, 7,491 5,
Dollars Includ	Income Includers From Farm Food 7,164 5,7,33: 5,491 5,1491 5,
Including Food	1 Income Include From Farm Food 6,614 4,7,164 5,7,33: 5,7,491 5,
Including Food	1 Income Include From Farm Food 6,614 4, 7,164 5, 7,33: 5,
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•	8,564 6
7	281
7	782
7	216
7	885
8,347	10,069 8
œ	9,564 8
0	10,631

Includes government payments.

U.S. Department of Agriculture, Economic Research Service, Farm Income Situation, Washington, D.C.: U.S. Government Printing Office, July, 1973. SOURCE:



Table 10

Percentage of Income from Farming Operations by Value of Sales Class for Selected Years 1960-1972

1	•	! -	1	21	>	VI	All Farms
Iear	1	11					
1960	89.7	83.7	81.0	67.7	31.4	23.8	58.1
1965	85.	80.1	73.2	52.6	36.6	17.6	52.8
1970	82.6	76.5	65.8	41.5	26.0	11.5	49.2
1972	82.4	74.9	63.4	38.8	23.9	10.0	50.4

Derived from U.S. Department of Agriculture, Economic Research Service, Farm Income Situation, Washington, D.C.: U.S. Government Printing Office, July, 1973, SOURCE:



Table 11

Income of Farm Families By Source for Selected Years 1960-1972 in Constant Dollars (1967=100)

Year	£ .	I	111	III	NI AI	> 0	VI 963	1 F
1960	raim Nonfarm Total	40	1,892	1,418	1,773 5,493	2,085 4,292	3,078	2,412 5,751
1965	Farm	26,902	10,654	6,633	3,754	2,089	1,045	4,412
	Nonfarm	4,712	2,641	2,430	3,386	3,624	4,883	3,950
	Total	31,614	13,295	9,063	7,140,	5,713	5,923	8,362
1970	Farm	25,147	10,071	5,693	2,978	1,613	873	4,888
	Nonfarm	5,291	3,098	2,965	4,199	4,592	6,720	5,053
	Total	30,438	13,169	8,658	7,177	6,205	7,593	9,941
1972	Farm	24,988	9,519	5,376	2,820	1,540	847	5,472
	Nonfarm	5,326	3,192	3,109	4,444	4,900	7,579	5,394
	Total	30,314	12,711	8,485	7,264	6,440	8,426	10,866

SOURCE: U. S. Department of Agriculture, Economic Research Service, Farm Income Situation, Washington, D.C.: U. S. Government Printing Office, July, 1973.



Table 12

Distribution of Southern Farms by Days of Off-Farm Work And Economic Class of Farm, 1959-1969

٠			Days	Off Farm	Work	
Class	Year	None	1-99	100-199	200+	Total
Т	1959 1969	78.7	8.0	2.6	10.7	100.0
7	1959 1969	72.4	12.4	5.0	11.5	100.0
m	1959	67.2 57.6	15.7	6.5	12.4	100.0
4	1959 1969	63.5 50.9	18.0 14.6	7.8	13.3	100.0
ഗ	1959 1969	59.5 45.5	17.6 11.8	8.1	16.6	100.0
* 9	1959 1969	45.0 29.5	13.4	7.7	33.9	100.0
Total	1959 1969	52.7 41.9	14.7	6.7	25.9 35.9	100.0

*Class 6 includes part-time and part-retirement farms.

SOURCE: 1959 and 1969 Census of Agriculture, Statis. Reports.



It is clear from the attached tables that income from nonfarm sources is becoming an increasingly important part of the family income for families with farm operations. Overall, the percentage of income from farming declined from 58 per cent in 1960 to about one-half in 1972. Moreover, declines were noted in each of the size categories. However, the decreased importance of farming was particularly striking for the smaller sizes of In 1960, farm income accounted for better than half the income of families with farms having at least \$2,500 of sales. By 1972, however, farm income was more important than nonfarm income only for farms having at least \$10,000 in farm sales. importance of farming for all farms failed to show the dramatic shifts within the various sales categories because of the shift in the distribution of farms. The two largest size categories accounted for less than 10 per cent of all farms in 1960 but nearly one-fourth in 1972.

Table 11 shows the trends in income by source in constant dollars and reveals nonfarm incomes to have continually increased in every period from 1960 to 1972, while average farm incomes have been dropping since 1965. Since the larger farms are more heavily dependent on farm income, there has been a slight decrease in real income for families with larger farms, while incomes have increased for families with farm sales under \$10,000.

Data in Table 12 show the days spent by Southern farmers in work off their own farms by economic class of farm for 1959 and 1969 and reveal the importance of farming for the various size of farm operations. The diversity in the importance of farming is apparent, not only among the size categories, but within each category. Overall, in 1969, farming was the exclusive activity of 42 percent of the farmers, while 36 percent spent 200 days or more in off-farm employment. The percent of farmers with no off-farm work ranged in 1969 from 71 percent of those with \$40,000 or more of sales to less than 30 percent of those with less than \$2,500 of sales. While just under 50 percent of farmers in the smallest category worked 200 days or more off the farm, the same was true for only 13 percent of farmer operators in the largest category.

The trend to more non-farm employment is clearly revealed in the data. Between 1959 and 1969 the percentage of farmers with no off-farm work dropped for each category of farm. The trend was very pronounced for those with less than \$10,000 of sales. For farmers with between \$2,500 and \$10,000 of sales, more than twice as large a percent spent 200 days or more in off farm work in 1969 as in 1959. For farmers with less than \$2,500, there were less than 30 percent who spent no time off the farm in 1969 compared to 45 percent in 1959.



However, despite the dramatic shifts to off-farm employment, the importance of farm income to many of the smaller farms is clear. Nearly one-half of class four and class five farmers had no other form of employment and an additional 12-15 percent worked less than 100 days. Moreover, nearly one-third of all farmers with sales under \$2,500 spend less than 100 days off the farm. For this group of small farmers, many of whom are apparently poor or nearly poor, the loss of farm income or a substantial decrease would be disastrous. On the other hand, increases in farm earnings of a few hundred or a few thousand dollars could be an extremely important way to improve total family incomes.

B. How much do secondary workers in farm families participate in non-farm labor markets?

As Table 13 shows, wives in rural-farm families with some farm self-employment income have lower labor force participation rates than all married women. In part, this reflects the characteristics of rural labor markets in general but particularly reflects the higher average ago of this segment of the population. Labor force participation for wives in farm families compares favorably with those for similar women whose husbands are without farm self-employment income. The percentage of employed women in rural-farm, husband-wife families with non-farm occupation is 85.7 percent in the total U.S. and 91.2 percent in the South, compared to 98.2 percent for all married women. One-fourth of all women in these families in the total U.S. in 1970 participated in non-farm jobs, much lower than all women, but again relating primarily to the age of the population.

C. When members of farm families take jobs in the non-farm sector, in which occupations and industries do they work?

The attached tables show the occupational distributions of males in the rural-farm sector with farm self-employment income and for wives in rural-farm, husband-wife households. The data are from the special report, Income of the Farm Related Population from the 1970 Census of Population. Both Tables 14 and 15 show the total occupational distribution as well as the distribution of those employed in strictly non-farm jobs. The conclusion from the adjusted data is that the principle difference in occupational distributions relates to the much larger proportion of rural-farm males with farm self-employment income in farm-related occupations. Once farm-related occupations are excluded, males with farm self-employed income and all males are distributed among non-farm jobs in much the same fashion. For wives in rural-farm, husband-wife families, the principle differences in non-farm employment are 1) the lower



Table 13

Labor Force Participation of Married Women, 1970

Group	Overall LF PR	Percent Employed in Nonfarm LF	Percent of the Employed in Nonfarm Occupations
Total US, wives in rural-farm, husband-wife families with some farm self-employment income.	29.0	85.7	24.9
South (same as above,	31.5	91.2	28.8
Total US, All married women, husband present	40.8	98.2	40.1

Notes: Percentage of employed women with non-farm jobs

ed and unemployed) by percentage employed in farm related jobs. (That is, Adjusted participation rate after reducing total labor force (both employtotal labor force = column 2* total labor force).

SOURCES: Data on wives in rural-farm, husband-wife families from Income of the Farm Related Population, 1970 Census of Population, Special Report PC (2)-SC.

Data for all married women from the Manpower Report of the President, 1974 (CPS data for March, 1970).

Table 14

Occupational Distribution of Males with Farm-Related Income, 1970

	Total US Rural Farm	ural Farm			Total South Rural Farm	Rural Farm
	Males with Farm-Self	Farm-Self	Total US	sn 1	Males with Farm-Self	Farm-Self
Occupation	Employment Income	Income	A11 P	All Males	Employment Income	Income
		ADJ		AW		ADJ
rocessional & Technical	5.5	12.9	14.0	14.8	6.2	12.5
Manager	6.5	15.3	14.2	15.0	8.4	17.0
Sales	2.9	8.9	5.6	5.9	3.2	6.5
Clerical	2.7	6.4	7.1	7.5	3.4	6.9
Craftsmen	10.2	24.0	20.1	21.2	11.8	23.9
Operatives	9.5	22.4	19.6	20.7	10.4	21.1
Laborers	2.4	5.6	7.3	7.7	2.9	5.9
Farmers & Farm Managers	55.7	ł	3.4	i	48.1	ŀ
Farm Laborers & Foremen	1.9	;	64	;	2.5	;
Service	2.8	9.9	6.7	7.1	3.1	6.3

Note: Adjusted distribution show occupations distribution of nonfarm jobs.

SOURCES: Income of the Farm Related Population, 1970 Census of Population, Special Report, PC (2)-8C.

Manpower Report of the President, 1974



· Table 15

Occupational Distribution of Married Women in the US, 1970

T	otal US	Total US Wives of				
kura Wife	cal-raru e famili	kural-rarm Husband- ife families w. Farm	So	South	Total US,	Total US, All Married
Occupation Self	Employ	Employment Income	(sam	(same as)	Women, Hus	Husband Present
Frofessional, Tech-		ADJ1		ADJ		ADJ
nical & Managers	21.2	24.7	20.8	22.8	20.1	20.5
Sales	5.9	6.9	5.7	6.3	7.1	7.2
Clerical	22.2	25.9	21.1	23.2	33.6	34.2
Operative	15.9	18.6	25.2	27.7	16.3	16.6
Other Blue Collar	4.0	4.7	3.9	4.3	1.6	1.6
Farmers and Farm Managers	6.1	!	4.2	; 1	0.2	ł
Farm Laborers and Foremen	8.5	;	4.6	i	1.6	1
Service, Other than PHW	14.3	16.7	11.8	12.9	16.0	16.3
PHW	2.2	2.6	2.6	2.8	3.5	3.6

Note: Adjusted distribution show jobs other than farm-related.

SOURCES: Income of the Farm Related Populations, 1970 Census of Population, Special Report PC (2)-8C.

Manpower Report of the President, 1974 (CF: Data, March, 1970).



proportion employed as clerical workers -- a difference probably reflective of rural industry mix -- and 2) a somewhat greater proportion in professional and blue-collar jobs.

In summary, the crucial and growing importance of non-farm income for farm families is evident, especially in the small-size operations where most of the farm poor are present. The higher percentage of men in craftsmen and operative jobs -- and the remarkably higher percentage of women in operative and other blue-collar jobs -- reveals again the crucial importance of manufacturing employment for rural farm families. Farm income, however, is still quite important, and the current increased demand for farm products should be a significant help. The chief problem areas are eastern Kentucky, western Texas and Oklahoma, south Texas, and many parts of the Delta and Deep South areas -- all of which experienced disappointing employment gains in the 1960's.

IV. REFLECTIONS ON POLICY

Basically, if the nonmetro South is now primarily in the industrial stage of development, and if poverty impact is considerable, it makes sense to support local governments and business groups in their efforts to attract industry. However, their frequent lack of concern with the poor means that it will be necessary to insist that labor and the poor share fully in the benefits of industrial development. This may be done in practice by:

- (1) Backing local interests in their efforts to obtain necessary water, sewage, and industrial park facilities. This industrial infrastructure seems necessary to be competitive with other communities in attracting industry;
- (2) Insisting on adequate and competent job-training and basic education programs for the locally unskilled and under-educated, including "start-up" programs to train local residents in skills needed by incoming plants. (Evaluation data for manpower programs are especially needed, since they are currently almost totally absent on the local level);
- (3) Insisting on the enforcement of anti-discrimination laws, so that blacks can share in industrial development and are not forced to migrate to Northern ghettoes, as they have been in the past;
- (4) Supporting efforts to attract higher-paying plants, when local low-wage industries, during tight labor markets, resist this as a threat to their labor supply.



On the other hand, if the stages model presented is accurate, certain other policies seem less practical:

- (1) Assuming that development is a function of high-wage industry and then advising backward nonmetro areas with little factory experience to go after such firms seems a dubious policy. There is no evidence that plants will come to such areas, except in the rare cases of resource-oriented firms. Even medium-wage enterprises generally have only located in areas of previous industrial development. (However, it should be noted that some local officials felt that adequate manpower training facilities would enable an area to leapfrog the low-wage stage.)
- (2) Unionization seems extremely difficult during the first stage of industrial development. The low-wage firms, often in very competitive industries, will resist unionization vigorously, and, given the labor surplus and the unskilled nature of the jobs, organizing will have the greatest handicaps. Also, industrial developers interviewed often mentioned that being a union town will scare first stage firms away and stunt the development process. Unionization shoul be more possible in the second stage.
- (3) Although the main hope for improving the incomes of rural people must lie in economic development in the private profit making sector, self-help activities also have a role to play. Community development corporations and cooperatives have been and are valuable activities, especially for providing an organized base for the poor and some participation in the economic decisions that affect their lives. But the amount of jobs and income they can realistically be expected to provide seems dwarfed in comparison to successful participation of workers and poor in the industrialization currently underway.

Finally, in most places OEO community action agencies are losing many of their programs, especially in the manpower field. Yet compared with other agencies besides welfare, usually only the CAA's have close contact with the poor. It seems logical that they would therefore perform an outreach function, under proper quality standards, for development activities aimed at the poor. It will be unfortunate if, because of past political conflicts, efforts at the local level ignore the CAA's and consequently, lose contact with those most in need of development - the Southern rural poor.



Table 16

Industrial Distribution of Experienced Labor Force, Families with Farm Self-Employment Income

		SOUTH	E				2	TOTAL US	US		1
Industry	Heads	Spo	Spouses	ğ	Other ^a	Heads	ds	Spouse	use	Other	is a
Agricultural Production	51 ADJ	7	ADJ	21	ADJ	26	56 ADJ	Q	ADJ	23	ADJ
Other Agriculture	i O	-	1	m	ю	4	D	-	2	m	4
Mining	1 2	Ω	Ω	Д	Д	Q	7	Д	Ω		H
Construction	7 15	-	H	Φ	10	5	12	т	-	ហ	7
Manufacturing	9 18	5 6	28	21	27	11	25	20	22	21	27
Transportation	5 10	8	m	9	\oo	4	Φ	~	8	Ŋ	7
Trade	7 15	21	22	17	21	7	15	22	24	16	21
Services	15 31	42	45	24	띪	13	ଛା	45	64	26	13
TOTAL	100 100	100	100	100	100	100	100 100	100	100	100	100
											1

Note: The three categories are 1) Head of household, b) Spouse of head, c) Other adult (over 18 years of age) in household

Less than 0.5 percent

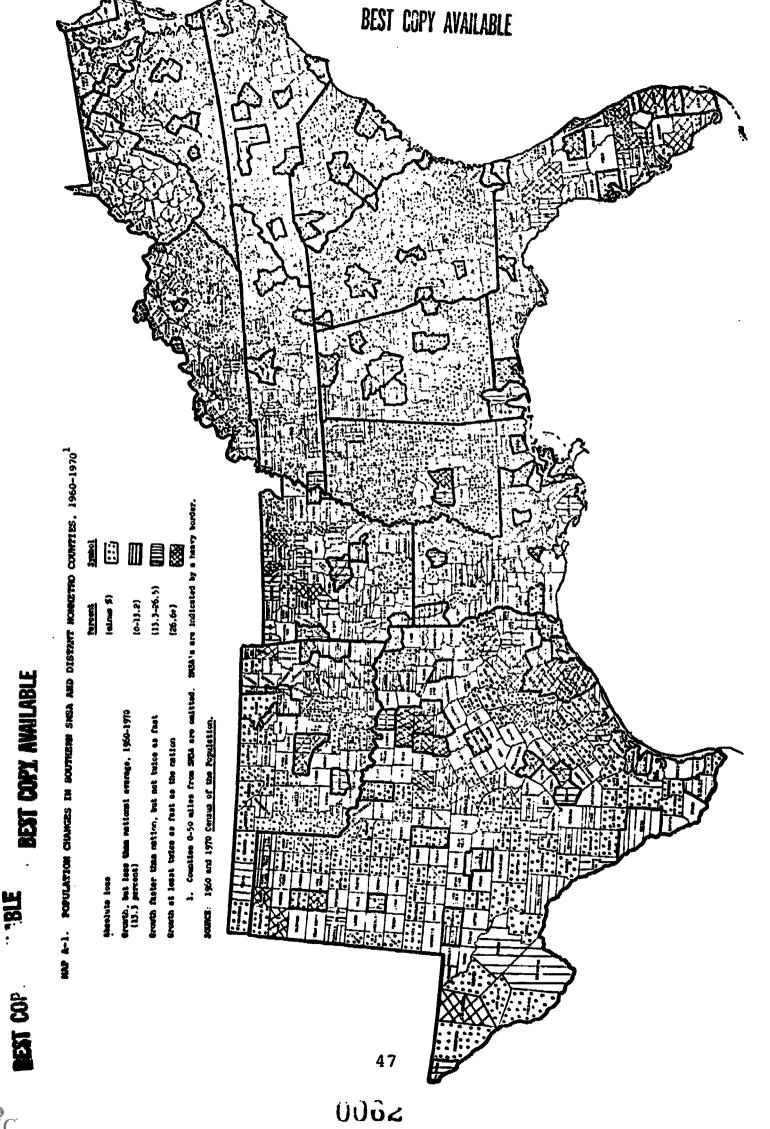
ADJ shows distribution not including Ag. Production

SOURCE: Data derived from tabulations of V1000 Public Use Sample Tapes, 1970 Census of Population. Only households in which the head reported earnings from farm self-employment were included.



APPENDIX A

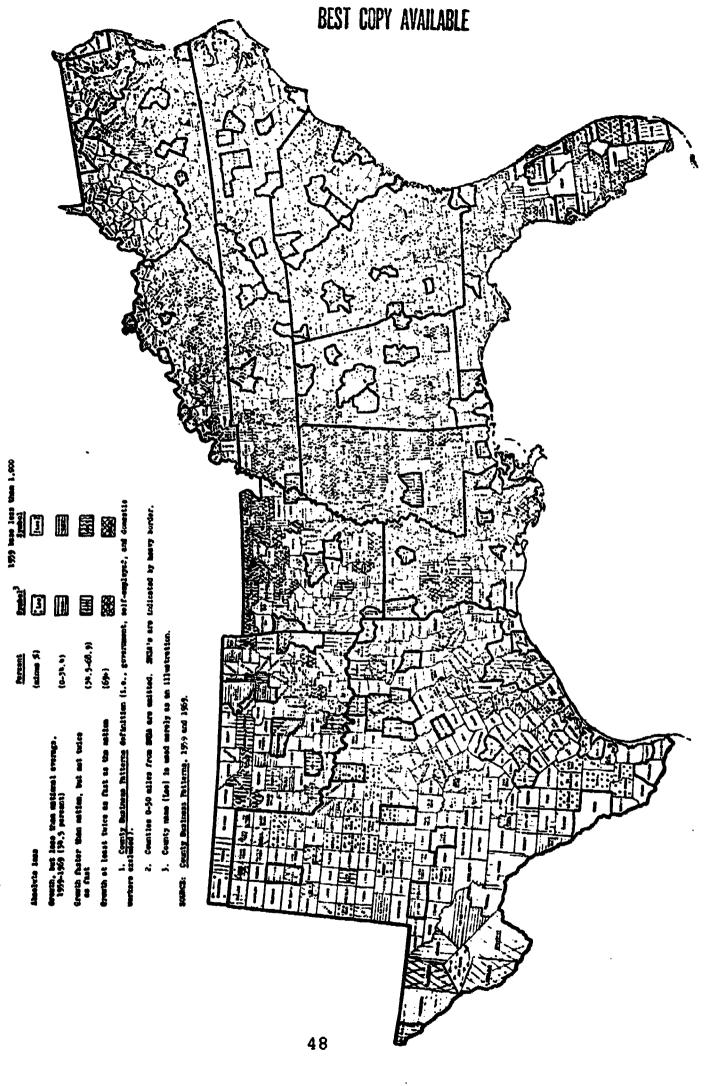
Maps of Southern Nonmetro Population, Total Employment and Manufacturing Employment





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160 A-2. Total morpain exployers ¹ Chares in Southern Shea and Distart Morreto Counties, 1959–1969²



ERIC Full Taxt Provided by ERIC

APPENDIX B

Employment Changes in "Success" and "Failure" Counties of the Border South, 1947-19711



lall counties designated as success or failure on Map l for the states of Virginia, North Carolina, Kentucky, Tennessee, and Arkansas are included. The criteria used are given in Table 4.

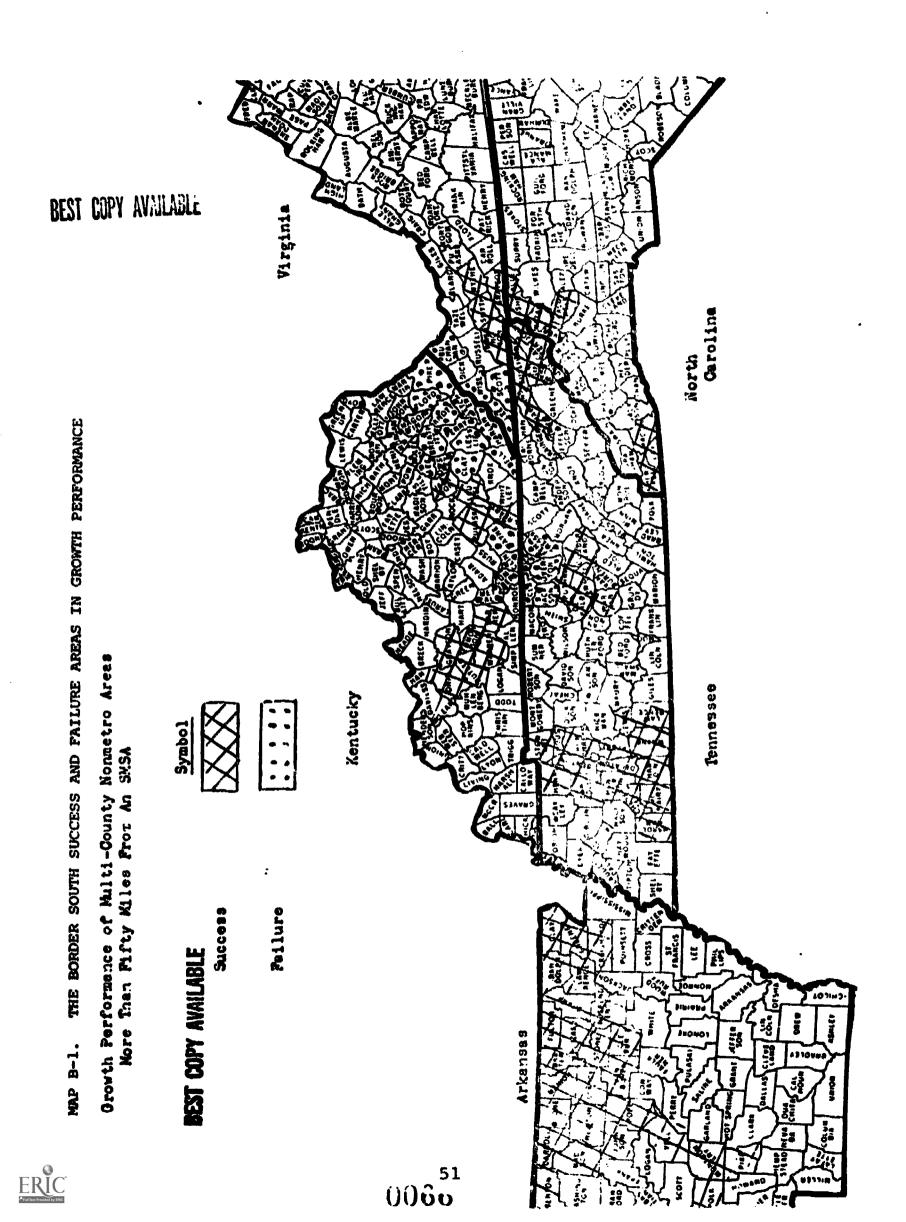


Table B-1

List of Counties Included in the Border South Success and Failure Areas

	1. 7	Arkansas (29 Counties)		
	Success Counties (29)		Failure Counties (0)	(0) sa
shlev	Fulton	Pike	none	
Baxter	Greene	Polk		
Benton	Independence	Pope		
Boone	Izard	Randolph		
Carroll	Johnson	Searcy		
Chicot	Lawrence	Sharp		
clay	Madison	Stone		
Cleburne	Marion	Van Buren		
Craighead	Montgomery	Yell		
Desha	Newton			
-	c.	Kentucky (29 Counties)		
				(10)
	Success Counties (10)		ratiure countries (15)	(61) 6
			Bell	Letcher
	Barren		Broathitt	Magoffin
	Butler			Ketcalf
	Edmonson		Clay	Morgan
	Grayson		Clincon	Por year
	Laurel		Cumber Land	Dibe
	Jackson		Floyd	Cualou
	McCreary		Hartan	Cases Marmo
	Ohio		Knott	wayne wal 60
	Pulaski		Lee	ATTOM
	Warren		Leslie	



Table B-1 (Continued)

	3. N	North Carolina (8 Counties)	
	Success Counties (8)		Failure Counties (0)
	Alleghany Ashe Avery Caldwell Cherokee Clay Macon Watauga	Tennessee (31 Counties)	none
	Success Counties (27)		Failure Counties (4)
Benton	Hawkins	Madison	Clay
Carroll	Henderson	Perry	Fentress
Chester	Henry	Putnam	Jackson
Cumberland	Houston	Stewart	Pickett
Decatur	Humphreys	Sullivan	
DeKalb	Johnson	Warren	
Hamblen	Lawrence	Washington	
Hardeman	Lewis	Wayne	
Hardin	McNairy	White	



ERIC Full faxt Provided by ERIC

Table B-1 (Continued)

	Failure Counties (4)	Buchanan	Lee	Scott	Wise								
Virginia (16 Counties)													
5.	Success Counties (12)	Albemarle	Augusta	Bath	Frederick	Fluvanna	Grayson	Highland	Rockingham	Shenandoah	Smythe	Washington	Wythe

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Table B-2
The Border South, A Sur ary Table:
Change of Manufacturing Employment a the SIC Two-Digit Level,
1947-1971, For Selected Industries

SIC Number						DOLONG			
EIC Number (17-15) Ann. Chy Ann. Chy (14-15) Ann. Chy (14			1947	19	89	19	2	1761	1
20 9, 398 10,776 125 17,221 716 8,590 9,598 10,776 125 17,221 716 8,590 9,986 -418 16,125 689 11,156 27 14,439 9,978 -400 16,125 689 14,439 9,978 -400 16,125 689 1,887 13,028 1,987 1,986 1,987 1,597 15,041 497 13,028 1,986 1,887 15,041 497 13,028 1,986 1,996 1,995 1,997 13,028 1,996 1,997 1,597 1,597 15,042 497 13,028 1,996 1,997 1,997 1,597 1,597 424 1,998 1,997 1,997 1,597 1,997		919	1		Ann. Chg		Ann. Chg		Ago. Cho
20 9,398 10,776 115 14,578 9,986 116 116,065 689 14,439 9,996 14,439 9,996 -418 16,182 14,439 9,996 -418 16,182 14,439 9,996 -418 16,182 16,883 16,880 -418 16,182 16,883 16,880 130 18,721 18,993 19,953 16,868 130 18,721 18,993	INDUSTRY	MO.	of Jobs	Musber	Number	Humber	158-167 Mumber	Wumber	67-'71 Rusber
20 9, 398 10,776 125 17,221 716 8,590 9,868 116 16,065 689 17,122 689 1,136 27 14,578 9,986 -418 i.6,182 689 14,439 9,978 -400 16,125 683 14,439 9,978 -400 16,125 683 14,439 9,978 -400 16,125 683 1,887 377 15,042 497 32,028 1,887 395 16,061 13,724 -212 17,537 424 19,905 16,061 13,724 -212 17,537 424 3,844 2,844 -91 2,184 -74 2,184 2,1	I-Selected Tradi- tional Industries								
22 14,578 9,986 116 15,065 689 689 689 9.868 116 15,065 689 689 689 14,419 9,986 -418 15,122 588 14,439 9,978 -40 15,122 588 14,439 9,978 -40 15,122 588 59 14,439 9,978 -40 15,122 588 59 14,439 9,978 -40 15,122 58 58 59 14,439 9,978 15,042 497 32,028 1,887 99 15,042 130 2,698 99 15,043 15,044 -91 2,184 -74 15,04 15,04 13,044 -91 2,184 -74 17,837 424 18,991 3,672 262 7,426 395 48 148 9 3,872 262 7,426 395 48 148 9 3,872 262 180 10,688 933 95 18 10,741 938 306 2,292 180 10,688 933 95 18 18 10,741 938 306 2,292 189 4,480 253 245 245 245 245 245 245 245 245 245 245	0001	8							
22 14,578 9,986 116 16,065 689 689 14,156 5.7 689 14,439 9,978 -40 16,126 689 14,439 9,978 -40 16,126 689 14,439 9,978 -40 16,126 689 5.7 689 6.7 6.7 6.7 6.7 6.8 689 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7	Total Cos.		9, 398	10,776	125	17,221	716	22,209	1.240
22 808 908 9 1,156 :7. 23 14,578 9,986 -418 i6,182 688 14,439 9,978 -400 16,125 683 14,439 9,978 -400 16,125 683 24 19,953 16,850 627 34,726 1,986 9,577 15,042 497 32,028 1,887 24 19,905 16,568 -303 19,721 350 16,061 13,724 -212 17,537 424 3,844 2,844 -91 2,184 -74 49 148 99 364 2,300 181 10,741 938 306 2,300 181 10,741 938 306 2,300 181 10,741 938 306 2,200 198 4,480 253 24 2,200 198 4,480 253 24 2,200 198 4,480 253	Success Cos.		8,590	9,868	116	16,065	689	21.262	1,300
22	Failure Cos.		808	806	•	1,156	1:	946	-52
14,578 9,986 -418 i.6,182 689 14,439 9,978 -406 16,125 683 14,439 9,978 -406 16,125 683 23 9,953 16,850 627 34,726 1,986 9,577 15,042 497 32,028 1,887 16,061 13,724 -212 17,537 424 16,061 13,724 -91 2,184 -74 16,061 13,724 -91 2,184 -74 16,061 13,724 -91 2,184 -74 16,061 13,724 -91 2,184 -74 16,061 13,724 -91 2,184 -92 16,061 13,724 -91 2,184 -74 16,061 13,672 262 7,426 395 48 148 9 36 2,300 181 10,741 938 36 2,292 180 10,688 933 96 2,200 189 4,480 253 24 2,200 189 4,480 253 24 2,200 189 4,312 245	TEXTILES	22				•			1
14,439 9,978(00 16,125 683 23 9,953 16,850 627 34,726 1,986 9,577 15,042 497 32,028 1,887 3,644 2,844 -91 2,184 -74 14,039 4,020 271 7,810 421 24 19,905 14,864 -91 2,184 -74 24 19,905 14,868 -303 19,721 350 16,061 13,724 -212 17,537 424 3,844 2,844 -91 2,184 -74 24 2,300 181 10,741 938 36 2,300 189 4,480 253 24 2,200 198 4,480 253 24 2,200 198 4,480 253 24 2,104 189 4,312 245	Total Cos.		14,578	9,986	-418	76, 192	889	18.030	462
23 139 8 -12 56 5 24 9,953 16,850 627 34,726 1,986 9,577 15,042 497 32,028 1,887 24 19,905 16,568 -303 19,721 350 16,061 13,724 -212 17,537 424 3,844 2,844 -91 2,184 -74 14.639 4,020 271 7,810 421 991 3,672 262 7,426 395 48 148 9 364 26 36 2,300 181 10,741 938 306 2,300 188 10,688 933 - 8 1,639 4,187 245 24 2,200 198 4,187 245 24 2,200 198 4,187 245	Success Cos.		14,439	9,978	903	16,125	683	16.030	476
23 9,953 16,850 627 34,726 1,986 9,577 15,042 497 32,028 1,887 39 376 1,806 130 2,698 99 2,601 13,724 -212 17,537 424 16,061 13,724 -212 17,537 424 3,844 2,844 -91 2,184 -74 424 3,844 2,804 4,020 271 7,810 421 991 3,672 262 7,426 395 48 148 99 384 26 36 2,292 180 10,688 933 306 2,292 180 10,688 933 5 7 24 2,200 198 4,480 253 245 245	Pailure Cos.		139	40	-12	3	•61		-14
9,953 16,850 627 34,726 1,986 99 376 1,806 130 2,698 99 376 1,806 130 2,698 99 16,061 13,724 -212 17,537 424 3,844 2,844 -91 2,184 -74 Lal mdus- 1,039 4,020 271 7,810 421 991 3,672 262 7,426 395 48 148 9 364 26 36 2,300 181 10,741 938 36 2,200 198 4,480 253 24 2,200 198 4,480 253 24 2,200 198 4,480 253	VPPAREZ.	23	•		}	}•	•		ì
9,577 15,042 497 32,028 1,887 39, 316, 32,028 1,887 39, 32,028 1,887 39, 316,568 -303 19,721 350 16,061 13,724 -212 17,537 424 3,844 2,844 -91 2,184 -74 424 3,844 2,844 -91 2,184 -74 424 3,844 2,844 -91 2,184 -74 424 3,872 262 7,426 395 48 148 9 344 26 394 25 395 306 2,300 181 10,741 938 306 2,292 180 10,688 933 5 7 24 2,200 198 4,480 253 245 245	Total Cos.		9.953	16.850	627	34.726	1.986	\$2.492	4.239
24 19,905 16,568 -303 19,721 350 16,061 13,724 -212 17,537 424 16,061 13,724 -212 17,537 424 16,061 13,724 -91 2,184 -74 424 2,844 -91 2,184 -74 424 3,872 262 7,426 395 48 148 9 394 26 394 26 396 2,292 180 10,688 933 5 7 24 2,200 198 4,480 253 245 245	Cuccess Cos.		9.577	15.042	497	32.029	1.887	46,112	2.521
24 19,905 16,568 -303 19,721 350 16,061 13,724 -212 17,537 424 3,844 2,844 -91 2,184 -74 424 4020 271 7,810 421 991 3,872 262 7,426 395 48 148 9 394 25 395 306 2,300 181 10,741 938 306 2,292 180 10,688 933 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Failure Cos.		376	1.808	130	2.698	8	27.	410
19,905 16,568 -303 19,721 350 16,061 13,724 -212 17,537 424 3,844 2,844 -91 2,184 -74 mdus- mdus- 1,039 4,020 271 7,810 421 991 3,672 262 7,426 395 40 148 9 384 26 36 2,300 181 10,741 938 36 2,292 180 10,688 933 - 8 1 53 5 - 8 1 53 5 - 8 2,200 198 4,480 253 24 2,200 198 4,480 253 24 2,200 198 4,480 253	LIPERE	7			}		3		
teal ide, 061 13,724 -212 17,537 424 3,844 2,844 -91 2,184 -74 midus- ide, 061 13,724 -212 17,537 424 ide, 020 271 7,810 421 991 3,672 262 7,426 395 40 148 9 384 26 36 306 2,300 181 10,741 938 36 2,292 180 10,688 933 - 8 1 53 5 - 8 1 53 5 - 8 1 53 5 - 8 2,200 198 4,480 253 24 2,200 198 4,480 253 24 2,200 198 4,480 253	Total Cos.	3	19,905	16.568	-303	19.721	350	12.845	-1.719
1,844 2,844 -91 2,184 -74 mindual- midual- midual- midual- mindual- midual- m	Success Cos.		16,061	13,724	-212	17.537	424	12,058	-1.370
Teal industrial indust	Failure Cos.		3,844	2,844	-61	2,184	-74	789	-349
MES 35 1,039 4,020 271 7,810 421 991 3,672 262 7,426 395 48 148 9 36 36 2,300 181 10,741 938 1 306 2,292 180 10,688 933 1 5 5 7 8 7 24 2,200 198 4,480 253 245 245	II-Selected Motal								
1,039 4,020 271 7,810 421 991 3,672 262 7,426 395 468 148 9 384 26 36 306 2,300 181 10,741 938 1 306 2,292 180 10,688 933 1 5 3 5 5 24 2,200 198 4,480 253 245 245	Pabricaring Indus-								
1,039 4,020 271 7,810 421 991 3,672 262 7,426 395 48 148 9 384 26 36 2,300 181 10,741 938 1 36 2,292 180 10,688 933 1 - 8 1 53 5 P. 37 24 2,200 198 4,480 253 245	tries								
1,039 4,020 271 7,810 421 991 3,672 262 7,426 395 48 148 9 384 26 36 2,300 181 10,741 938 1 36 2,292 180 10,688 933 1 - 8 1 53 5 P. 37 24 2,200 198 4,480 253 24 2,104 189 4,112 245	OMELEC. MACHINES	35							
991 3,872 262 7,426 395 48 148 9 324 26 36 2,300 181 10,741 938 1 306 2,292 180 10,688 933 1 - 8 1 53 5 P. 37 24 2,200 198 4,480 253 24 2,200 198 4,480 253 24 2,104 189 4,312 245	Total Cos.		1,039	4.020	271	7,810	421	9.69.6	545
36 48 148 9 384 26 306 2,300 181 10,741 938 1 306 2,292 180 10,688 933 1 - 8 1 53 5 P. 37 24 2,200 198 4,480 253 245	Success Cos.		166	3,672	262	7.426	395	9.785	290
36 306 2,300 181 10,741 938 1 306 2,292 180 10,688 933 1 - 8 1 53 5 P. 37 24 2,200 198 4,480 253 245	Pailure Cos.		4	871	6	365	78	2.3	7
306 2,300 181 10,741 938 1 306 2,292 180 10,688 933 1 - 8 1 53 5 P. 37 24 2,200 198 4,480 253 24 2,104 189 4,312 245	ZEC. MACHINES	*	1	!	•	1	ì		•
306 2,292 180 10,688 933 1 - 8 1 53 5 37 24 2,200 198 4,480 253 24 2,104 189 4,112 245	Total Cos.		306	2,300	181	10,741	938	17,124	1.596
37 24 2,200 198 4,480 253 245 245	Success Cos.		306	2,292	180	10,688	933	16,914	1.557
37 24 2,200 198 4,480 253 24 2,194 189 4,312 245	Pailure Cos.		•	•	-	53	, un	508	8
24 2,200 198 4,480 253 24 2,194 189 4,312 245	PRANSPOR. B. IIP.	33							
24 2,104 189 4,312 245	Total Cos.		24	2,200	198	4,480	253	6,478	900
	Success Cos.		*	2,104	183	4, 312	245	6,090	T 2
8 168 6	Pailure Cos.		•	8	σ.	169	80	88	55

Cens.s of Manufacturers. SOUNCES: 1) For 1947, 1958 and 1967 employment, U.S. Department of Commerce, Eureau of Census.

**Mashington, D.C.: U.S. Government Printing Office.

2) For 1971, U.S. Department of Commerce, Bureau of Census. County Business Patterns.

Government Printing Office.

Weshington, D.C.: U.S.



Table B-3

Total Manufacturing Employment, 1947-1971 The Border South:

nt Period Average Percent	1 1 1	2.5 1.8	n n 2 e 6 4	4.3 3.3 16.0
Employme Previous Annual mber Jobs	1 1 1	2,540 2,434 106	7,551 7,694 -143	7,226 6,170 1,097
Total Manufacturing Change From Number Of	111	27,943 26,772 1,171	67,960 69,247 -1,287	29,064 24,678 4,386
Number	88,897 83,381 5,516	116,840 110,153 6,687	184,800 179,400 5,400	213,864 204,078 9,786
Category	1947 Total Counties Success Counties Failure Counties	1958 Total Counties Success Counties Failure Counties	1967 Total Counties Success Counties Failure Counties	1971 Total Counties Success Counties Failure Counties

For 1947, 1958, and 1967 employment, U.S. Department of Commerce, Bureau of Census. Census of Manufacturers. Washington, D.C.: U.S. Government Printing Office. Ξ SOURCES:



For 1971, United States Department of Commerce, Bureau of Census. County Business Patterns. Washington, D.C.: U.S. Government County Business Patterns. Printing Office. (2)

Table B-4

Arkansas: Total Manufacturing Employment, 1947-1971

	Tot	Total Manufacturing Employment Change From Previous	Employment m Previous Period
Category .	Number	Number	Number
1947 Total Counties (All Success)	12,227	1	•
1958 Total Counties (All Success)	18,733	905'9	591
1967 Total Counties (All Success)	31,200	12,467	1,385
1971 Total Counties (All Success)	40,356	9,156	2,289

For 1947, 1958 and 1967 employment, U.S. Department of Commerce, Bureau of Census. Census of Manufacturers. Washington, D.C.: U.S. Government Printing Office. (T SOURCES:

(2) For 1971, United States Department of Commerce, Bureau of Census. County Eusiness Patterns. Washington, D.C.: U.S. Government County Eusiness Patterns. Printing Office.



Table B-5

Kentucky: Total Manufacturing Employment, 1947-1971

	Tot	Total Manufacturing Employment Change From Previous	Employment Previous Period
Category	Number	Number	
1947 Total Counties Success Counties Failure Counties	8,302 4,442 3,680	111	1 1 1
1958 Total Counties Success Counties Failure Counties	9,663 6,239 3,424	1,361 1,797 -436	124 163 -40
1967 Total Counties Success Counties Failure Counties	15,300 12,400 2,900	5,637 6,161 -524	626 685 1585
1971 Total Counties Success Counties Failure Counties	19,972 14,600 5,093	4,672 2,299 2,193	1,168 575 548

(1) For 1947, 1958, and 1967 employment, U.S. Department of Commerce, Bureau of Census. Census of Manufacturers. Washington, D.C.: U.S. Government Printing Office. SOURCES:

(2) For 1971, United States Department of Commerce, Bureau of Census. County Business Patterns. Washington, D.C.: U.S. Government County Business Patterns. Printing Office.



Table B-6

North Carolina: Total Manufacturing Employment, 1947-1971

	Tota	Total Manufacturing Employment Change From Previous Annua	facturing Employment Change From Previous Period Annual Average
Category	Number	Number	Number
1947 Total Counties (All Success)	9,540	•	ı
1958 Total Counties (All Success)	13,696	4,156	378
1967 Total Counties (All Success)	22,800	9,104	1,012
1971 Total Counties (All Success)	23,738	938	235

For 1947, 1958, and 1967 employment, U.S. Department of Commerce, Bureau of Census. Census of Manufacturers. Washington, D.C.: U.S. Government Printing Office. (T SOURCES:

For 1971, United States Department of Commerce, Bureau of Washington, D.C.: Census. County Business Patterns. U.S. Government Printing Office. (5)



Table B-7
Tennessee: Total Manufacturing Employment, 1947-1971

	otal Man	ufacturing	Emplcyment
CATEGORY	No.	Chg. From No.	Previous Per Ann. Aver. No.
L 947			
Total Counties	36,896	-	-
Success Counties	36,286	-	-
Failure Counties	610	-	-
1958			
Total Counties	53,969	17,073	1,552
Success Counties	51,767	15,481	1,407
Failure Counties	2,202	1,592	145
1967			
Total Counties	87,400	33,431	3,715
Success Counties	85,800	34,033	3,781
Failure Counties	1,600	-602	-67
1971			
Total Counties	99,527	12,127	3,032
Success Counties	96,601	10,801	2,700
Failure Counties	2,926	1,326	332

SOURCES: (1) For 1947, 1958, and 1967 employment - U.S.

Department of Commerce, Bureau of Census.

Census of Manufacturers. Washington, D.C.:

U.S. Government Printing Office.

⁽²⁾ For 1971, United States Department of Commerce, Bureau of Census. County Business
Patterns. Washington, D. C.: U.S. Government Printing Office.

Table B-8

Virginia: Total Manufacturing Employment, 1947-1971

To	otal Man	ufacturing l	Employment
CATEGORY	No.	Chg. From No.	Previous Per Ann. Aver. No.
1947			
Total Counties	21,932		
Success Counties	20,886		
Failure Counties	1,046		
1958			
Total Counties	20,779	-1,153	-105
Success Counties	19,718	15	1
Failure Counties	1,061	-1,168	-106
1967			
Total Counties	28,100	7,321	813
Success Counties	27,200	7,482	831
Failure Counties	900	-161	-18
1971			
Total Counties	30,451	2,351	588
Success Counties	28,684	1,484	371
Failure Counties		867	217

SOURCES: (1) For 1947, 1958, and 1967 employment - U.S.

Department of Commerce, Bureau of Census.

Census of Manufacturers. Washington, D.C.:

U.S. Government Printing Office.

(2) For 1371, United States Department of Commerce, Bureau of Census. County Business
Patterns. Washington, D.C.: U.S. Government Printing Office.



Table 8-9

The Border South: Manufacturing Employment at the SIC Two-Digit Level, 1947-1971, Combined Success and Pailure Counties

	SIC	1947	1958	. 5	10.17	1967			1971		
Industry	Mapor	of Jobs	of Jobs	Runber	Percent	Number of John	Change, 1958-67 Number Perce	1958-67 Percent	Number of Jobs	Change, Kumber	1967 -71 Percent
Pood	20	802	366 06	•							
Tobacco	7	964	966	1,3/6	14.6	17,221	6,445	59.8	22,234	5.013	29.1
Textiles	: 6		B07	300	59.0	26	-152	-73.0	•	95	מיטיר-
Appere	3 6	2/4/57	386.0	4,492	31.0	16,182	6,196	62.0	18.030	1.848	7
Lumber	3.5	200,00	16,850	6,897	69.2	34,726	17,876	106.0	51.621	76.805	7 07
Furniture		72,402	16,568	-3,247	16.3	19,721	3,153	19.0	12,508	60,60	9.00
Paner	n v	1,571	9, 208	1,837	24.9	20,455	11.247	122.1	23 941	7 406	
Driver	9 ;	2,910	3,049	139	4.7	5,310	2.261	77.	176	200	2.5
	76	3,982	4,329	347	8.7	6,162	1.833	72.3	400	150	9 1 7 4
Total Car	27	7,016	12,390	5,374	76.5	16.367	2,077			FC7'71	
recrosed a cost				•	•			2.5	7101	-7,295	-26.7
Products	5 2	324	108	-216	9.99-	128	90	0			
Mudder & Plastics	2	999	832	266	6		2 6	n		821-	-100.0
Leather	ĸ	2,659	5.272	2.613		11 276	7000	228.5	4,184	1,452	76.4
Stone, Clay 6					70.0	•	400.0	113.8	10,996	4,992	83.1
Glass	32	5.121	4.180	-043	2 91	***		;	,		
Primary Metal	33	1.888	963	776	7.071	707.0		52.1	5,702	-657	-10.3
Metal Fabrication	*	3,046	2,372	7677	7.000	2,302	1,666	261.9	2,689	387	16.8
Monelectrical					7.77	3,734		58.2	6,421	2,667	71.0
Machinery	35	1,039	4,020	2,981	286.9	7.819	3 700	9 70	900		
	,	,							60//6	2,750	157.5
Transportation	9	306	2,300	1,994	651.6	10,741	8,443	367.0	17.124	6.181	7 05
Equipment	22	2.4	***		, , ,						
Instruments	38		707	3,175	9066.6	7,480	2,280	103.6	6,478	1,998	44.5
Miscellaneous	! !	•	\$	9	3/00.0	70/	400	131.5	196	92	13.0
Manufacturing	39	960	4,790	4,294	965.7	3,352	-1.438	0 000	6	3	,
									21716	8	0.7

SOURCES: 1) For 1947, 1958 and 1967 employment, U.S. Department of Commerce, Bureau of Census, Census of Manufacturers. Washington, D.C.: U.S. Government Printing Office.

2) For 1971, U.S. Department of Commerce, Bureau of Census. County Business Patterns. Washington, D.C.: U.S. Government Printing Office.

Table 9-10

The Border South: Manufacturing Employment at the SIC Two-Digit Level, 1947-1971, For Success Counties

	į	182	1958			200.					
Industry		Tage of	Muncher	Chang	D. 1947-58	Q I			1971		
		2000	Of Jobs	nabor	Percent	Of Jobs		Percent	Number	Change	1967-71
Tobleco	20	8,590	9,868	1 270				10000	200	Munber	Percent
Textiles	ដ	200	208	-300	14.8	16,065	6,197	62.7	21.262		•
Apparel	22	14,339	9,978	-4.361	- 30 -	92	-152	-73.0	•	1610	32.3
Lumber	5.7	9,577	15,042	5,465	57.0	10,126	6,148	61.6	18,030	1.848	-100.
Purniture	.	16,061	13,724	-2,337	-14.5	17,537	16,986	112.9	46,112	14.084	
Paper	: *		9,164	1,817	24.7	20, 341	3,613	27.7	12,058	-5,479	
Frinting	22	7.750	3,049	187	6.5	5,310	67777	121.9	23,941	3,598	17.6
	5 8	2000	4,057	307	8.1	5.810	707'7	74.1	5,941	631	11.6
Fetroleum & Coal Products	36	97	12,242	5,226	74.4	16.21	£, /35	43.2	5,008	-602	-1.2 8.2.2
Rubber & Plestics	8	2 3	9	\$	78.5	70	7,6,5	32.4	7,072	-9,147	. 98
Leather	31	8 8	954	258	45.5	2.684	3 5	20.0	•	-120	-100
Stone, Clay & Glass	32	6.40	5,132	2,673	108.7	11.089	200.1	225.7	4,148	1,500	55.0
Primary Netal		1 000	4,052	-90-	18.1	6.143	90,000	116.0	10,336	-752	2.9
Metal Pabrication	*	3.030	10 C	-1,324	70.1	2,198	160.5	51.6	5,490	-653	-10.6
Plant Machinery	35	66	* 50¢	-674	-22.1	3,730	3.766	69.7	2,689	4 91	22.3
Secretary Rechinery	36	306	2000	2,881	230.7	7,426	3.540		6,421	2,619	72.1
free richard Laurent	37	~	2.104	1,986	649.0	10,688	8.396	366.3	9,785	2,359	31.7
Miscellaneone manage	38		304	20,000	9,999	4,312	2,200	104.9	16,914	6,226	58.2
delinited and descripting	ŝ	460	4,766	4,286	not defined	969	392	128.9	796	1,776	7.7
						J, 344	-1,422	-29.8	3,378	3 %	
SOURCES: 1) P. 7 1047 1068										,	•

SOURCES: 1) P. 1947, 1958, and 1967 employment, U.S. Department of Commerce, Bureau of Census. Census of Manufacturers. Washington, D.C.: U.S. Government Printing Office.

2) For 1971, United States Department of Commerce, Bureau of Census. County Business Patterns. Washington, D.C.:



Table B-11

The Border South: Manufacturing Employment at the SIC Two-Digit Level, 1947-1971, For Pailure Counties

Food Tobacco 21	SIC R	Rumber of Jobs	1958 Number of Jobs	Change,	1947-1958 Percent	Number of Jobs	Change	Change, 1967 ber Percent	Number of Jobs	Change, 1971	1971 Percent
Tobacco 21		800	900	96.		73.			3		
		8 1	9	ð. 1	75.3	10111	9 1	67.3	0 Ph	017-	7.07
TEXELLER		139	oc.	-131	-94.2	26	S	6.00	•	92	-100.0
Apparel 23		376	1.808	1.432	380.8	2.698	890	49.2	6.370	3.672	136.1
Lumber 24	M	3.844	2.844	-1.000	-26.0	2,184	-660	-23.2	788	1,396	-63.9
Furniture 25		24	7	20	83.3	•	89	154.5	•	-112	-100.0
Paper 26		8	•	87-	-100.0	•	•	•	•	•	•
Printing 27		232	272	9	17.2	352	80	29.4	•	-352	-100.0
Chemical 28		•	148	148	not defined	148	0	0.0	•	-148	-100.0
Petroleum & Coal											
Products 29		268	90	-260	-97.0	80	•	0.0	•	89	-190.0
Rubber 6 Plastics 30		•	ω	***	not defined	4	07	500.0	•	-48	-100.0
Leather 31		200	140	09-		188	8	34.2	1.075	887	471.8
Stone, Clay 6		1			•		•			i	
Glass 32		168	128	07-	-23.8	216	88	68.7	212	7	-1-8
Primary Metal 33		•	72	72	not defined	154	32	44.4	•	-104	-100.0
Metal Fabrication 34		œ	•	0	0.0	24	16	200.0	•	-24	-100.0
Nonelectrical											ı
Machinery 35 Electrical		4 8	148	100	208.3	384	236	159.4	209	-27	-11.4
Machinery 36		•	∞	80	not defined	53	45	562.5	209	164	309.4
Transportation						•					
Equipment 37		•	96	96	not defined	168	72	75.0	388	316	438.8
Instruments 38		ထ	•	~	-100.0	&	æ	not defined	•	&	-100.0
Miscellaneous											
Manufacturing 39		16	54	S	50.0	æ	-16	-66.6	•	~	-100.0

1) For 1947, 1958 and 1967 employment, U.S. Department of Commerce, Bureau of Census, Census of Manufacturers. Mashington, D.C.: U.S. Government Printing Office. SOURCES:

Washington, D.C.: For 1971, U.S. Department of Commerce, Bureau of Census, County Business Patterns. U.S. Government Printing Office. 2

Table B-12

ARKANSAS: Manufacturing Employment at the SIC Two-Digit Level, 1947-1971

			EMPLO	EMPLOYMENT	
		1947	1958	1967	1971
	STC	Total	Total	Total	Total
TUDISTIBLE	Number	Counties	Countiesa	Counties	Counties
THEORY					
	20	2,516	3,848	6,879	10,693
	: [. •	•	•	•
Tobacco	22	148	228	471	812
Textiles	3 °C	497	1,972	3,570	7,176
Apparel	2 C	5.623	4,344	6,680	4,960
	25.	64	280	1,070	1,238
Furnature	5 2	908	796	1,968	2,659
Paper nei-t-tine	27	432	512	752	107
Frincing	28	282	260	80	830
meters of Cost Drod	56	48	28	•	•
rectoled a coal from) C	•	α	712	169
Kubber and Frastres	3 (8	748	2,268	4,001	4,396
reather Class	32	357	432	764	1,164
SCOILE, CLAZ a CLASS	33	1,760	52	869	455
rituary motors	34	დ	544	894	1,122
metal fabricating	. K	148	296	1,362	1,457
Nonetections nathings?	9.	•	809	2,104	4,284
Electrical machines?	37	16	176	472	1,831
Transportation Equipment	5 6	}	•	48	•
Instruments	9 6	248	372	628	674
MISCELLAREOUS Manutact.	}				

Note: All are success counties.

of Census, Census of Manufacturers. Washington, D.C.: U.S. Government SOURCES: 1) For 1947, 1958 and 1967 employment: U.S. Department of Commerce, Bureau Printing Office.

For 1971, United States Department of Commerce, Bureau of Census. County Business Patterns. Washington, D.C.: U.S. Government Printing Office. 7

Table 9-13

KENTUCKY: Manufacturing Employment at the SIC Two-Digit Level, 1947-1971

Incompared Proof													
DESCRIPTION		1	Cresses	Pat lives		Saccoss	Pailure	Total	Success	Patlure	19ter	Success	Pai lure
		Ownties	Counties	Counties	Counties	Counties	Counties	Counties	Counties	Counties	Counties	Counties	Counties
Pood													
!!!!	\$	1,394	778	616	1,796	1,152	**9	2,196	1,424	277	2,261	1,812	449
Tobacco	27	208	808	•	802	208	•	26	%	•	146	941	•
Terriles	2	139	•	139	&	•	80	416	360	3	449	694	•
Accerel	2	1.570	1,570	•	2,700	2,280	420	4,702	3,968	734	7,655	5,231	242
Lamber	7	4.094	1,226	2,868	3,008	976	2,032	3,084	1,572	1,512	1,300	814	486
Furniture	22	34	24	•	168	160	&	332	276	\$	354	354	•
Paper	2	8	•	4	•	•	•	₩	8	•	•	•	•
Princing	22	326	160	168	368	160	308	236	388	248	206	206	•
Chesical	20	•	•	•	6	36	60	228	220	80	211	211	•
Petroleum 6 Op.1 Prod.	2	72	8	3	8	72	\$	72	Z	6 0	•	•	•
Dubber and Plastics	8	•	•	•	•	•	8	\$₽	•	9	•	•	•
Leather	16	200	•	2	. 168	3 8	140	244	%	168	1,285	210	1,075
Stone. Clay 6 Glass	2	701	8	₽	128	26	22	576	432	144	629	659	•
Primery Retai	33	•	•	•	58	•	5 8	•	•	•	•	•	•
Metal Pabricating	*	91	æ	8	\$	\$	•	450	4.2	60	743	743	•
Monelectrical Machinery	SE	3	91	9	216	788	134	1,888	1,632	230	3,192	2,983	503
Electrical Machinery	2	258	258	•	co	•	80	2,050	1,854	196	2,279	2,070	503
Transportation Equipment	37	•	•	•	8	•	99	216	%	091	388	•	388
Instruments	2	\$		80	•		•	6 0	•	80	•	•	•
Miscellaneous Manufact.	33	91	•	91	89	\$	54	96	83	80	•	•	•

SOURCES: 1) For 1947, 1958 and 1967 employment: U.S. Department of Commerce, Bureau of Census, Constant of Manufacturers, Washington, D.C.: U.S. Government Printing Office,

2) For 1971, United States Department of Commerce, Bureau of Census. County Business Patterns. Washington, D.C.:

U.S. Government Printing Office.

Table B-14

NORTH CAROLINA: Manufacturing Employment at the SIC Two-Digit Level, 1947-1971

Food Tobacco Textiles Apparel SIC Number 20 21 21 22 Apparel 23	SIC	1947 Total	1958	1967	1971
Industry cco lles	IC ber	Total			
Industry sco lles	ber	•	Total	Total	Total a
co Lles rel		Counties	Counties	Counties	Counties
bacco 21	0	112	220	200	•
extiles 22	-4	•	•	1	•
oparel	2	3,328	3,664	5,004	5,380
	8	307	898	3,034	5,314
Lumber 24	4	1,441	1,436	2,300	1,682
Furniture 25	ıń	3,984	5,220	7,916	10,862
	g	œ	36	104	271
ing	7	64	104	128	1
Chemical 28	œ	120	84	184	1
Petroleum & Coal Products 29	a	•	•	•	1
	0	•	•	•	259
	_	48	•	416	099
Clay & Glass	8	200	416	620	503
	9	ထ	•	140	210
tion	•	84	1	88	•
hinery	ın	•	196	152	222
Electrical Machinery 36	LO	48	440	1,460	2,743
ment	7	ì	•	•	1
	ø	•	•	140	210
us Manufacturing	_ _	84	304	1,978	665

For 1947, 1958 and 1967 employment, U.S. Department of Commerce, Bureau of Census, Census of Manufacturers. Washington, D.C.: U.S. Sovernment Printing Office.
For 1971, United States Department of Commerce, Bureau of Census. County Business Patterns. 7 SOURCES:

Washington, D.C.: U.S. Government Printing Office. 6

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Table 5-15

TEMESSEE: Manufacturing Employment at the SIC Two-Digit Level, 1947-1971

Frod 20 21 22 22 22 22 22 22 22 22 22 22 22 22	-												
INDUSTRY Seo 11es	•	1000	Special	Pailure	10te.	Success.	Pellure	Total	Success	Fei lure	1011	Buccess	Pailure
Prod Tubecco Partiles		Counties	Counting	Counties	Counties	C unties	Counties	Counties	Counties	Counties	Countles	Counties	Countles
Tobacco	8	2,540	2,524	91	2,584	2.42	164	3.672	3.516	156	3,578	3,349	229
Textiles	2	•	•	•	•	•	•	•	•	•	•	•	•
,	22	6,287	6,287	•	3,128	3.128	•	6.747	· .747	•	6.498	6.498	•
Apparel	23	5,507	5,279	228	9,518	8.278	1.240	18,215	6.399	1,816	24,247	21,389	2,858
Laber	2	6,499	6,075	434	5,840	5,532	308	5,833	5,481	352	4,876	4,708	168
Purniture .	23	1,623	1,615	60	2,840	2,812	35	9,678	9,830	2	9,706	9,706	•
Paper	20	2,048	.,048	•	2,217	2,2,7	•	3,260	3,280	•	3,011	3,011	•
Printing	27	2,790	2,783	00	3,001	3,073	80	4,458	4,442	91	4,392	4,392	•
Chemical	2	4,240	4,240	•	9.570	9,570	•	13,699	13,699	•	4,715	4,715	•
Petroleum & Coal Prod	62	•	•	•	•	•	•	8	26	•	•	•	٠
Pubber and Plastics	2	16	91	•	8	3	•	906	806	•	1,990	1,990	•
Lesth.r	H	1,428	1,429	•	2,036	2,836	•	6,615	6,615	•	5,280	5,280	•
Stone, Clay & Glass	33	2,950	2,942	30	1,604	1,588	91	3,233	3,201	32	2,051	2,051	•
Primary Notel	33	3	3	•	496	969	•	1,212	1,212	•	2,024	2,024	•
Metal Pabricating	×	990	466	•	784	784	•	1,032	1,024	6	2,779	2,779	•
Monelectrical Machinery	35	551	551	•	1,728	1,728	•	2,922	2,922	•	6,397	6,397	٠
Electrical Machinery	2		•	•	476	476	•	2,550	2,542	∞	9,155	8,155	•
Transportation Equipment	33	©	60	•	1,892	1,684	80	3,478	3,470	6 0	3,744	3,744	•
Instruments	8	•	•	•	164	364	i	258	258	•	796	796	•
Miscellaneous Manufact.	8	160	160	•	2,605	2,605	•	096	96	•	632	632	•

SOURCES: 1) For 1947, 1950 and 1967 employment: U.S. Department of Comm. te, Bureau of Census of Manufacturers, Machington, D.C.: U.S. Government Printing Office. 2) For 1971, United States Department of Commerce, Buresa of Census. County Business Patterns. Washington, D.C.: U.S. Government Printing Office.

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Table 8-16

VINCINIA: Manufacturing Employment at the SIC Two-Digit Layel, 1947-1971

			250			1958			1961			1971	
	2	1325	Buccess	Patiers	Total	Success	Patlure	Total	Success	Pallure	Total	Success	Petiture
THEOREM	Ž	Counties	Counties	Counties	Counties	Counties	Counties	Counties	Ountles	Counties	Counties	Counties	Orntles
	8	2.836	2.660	320	2, 328	2.228	100	4.274	4.046	228	5,770	5,501	692
	3 8	}		· ·		}		•	•	•	•	•	•
	3 8)		950		•		. (A 000	1 890	•
TREELIES	7	6,570	4,076	•	20617	006'7	•			•	2010		
Apparel	2	2,072	1,924	148	1,792	1,6	7	5,205	5,057	9	11,937	10,849	7,062
Lumber	7	2,248	1,696	552	1,940	1,436	5 05	1,832	1,504	328	681	2	ž
Purpleure	x	1.676	1,660	76	900	695	83	1,259	1,251	€	2,135	2,135	:
Vacer	£	•	•	•	•	•	•	•	•	•	•	•	•
Printing	2	368	312	z	764	209	8	288	200	88	•	•	•
Chemical	8	2,374	2.374	•	2,392	2,252	•	2.176	2,036	140	1,526	1,526	•
Setroleum & Coal Prod.	2	202	•	204	•	•	•	•	•		•	•	•
Dibber and Pleatice	8	550	220	•	748	748	•	1,064	1,064	•	1,244	1,244	•
Leather	#	235	235	•	•	•	•	•	•	•	•	•	•
Stone, Clay 6 Glass	8	1.510	1.398	771	1,600	1,560	\$	1.166	1,126	2	1,744	1,562	212
Princey Metal	6	9	9	•	3	91	\$	252	877	104	•	•	•
Metal Pabricating	A	2.508	2.508	•	1.004	986	©	1,290	1,282	6	2,520	2,520	•
Monelectrical Machinery	1	296	8	•	688	3	5	1,486	1,359	126	1,252	1,252	. 4
Plactrical Machinery	×	•	•	•	768	768	•	2.736	2.728	•	747	75	•
Transportation Equipment	×	•	•	•	Į	Į	•	314	314	•	210	210	•
Instruments	98	•	•	•	140	97	•	8	200	•	•	•	•
Missellansons Manufact.	8	3	3	•	1.441	1,41	•	1,150	1,150	•	1,207	1,207	•
	}	}	;						•				

BOUNCES: 1) For 1947, 1958 and 1967 employment: U.S. Department of Commerce, Sursau of Cansus of Manufacturers, Washington, D.C.: U.S. Government Printing Office.

2) For 1971, United States Department of Commerce, Bureau of Census. County Business Patterns. Washington, D.C.: U.S. Covernment Printing Office.

APPENDIX C

Employment Trends in Six Southern Case-Study Areas, 1940-19701



70

These areas were chosen from Map 1. Generally areas with stagnant counties in close proximity to fast-growing counties, were preferred, for comparison counties. However, two booming areas -- northeast Mississippi and northwest Arkansas -- lacked "failure" counties, so only "success" counties represent them.



SIX CASÉ-STUDY AREAS

MAP C-1:

Table C-1

LIST OF COUNTIES INCLUDED IN SIX CASE-STUDY AREAS (Total: 43)

1. Appalachian Area (11 counties)

Success Counties (5)	Failure Counties (6)
Johnson (Tenn.) Carter (Tenn.) Avery (N.C.) Ashe (N.C.) Watauga (N.C.)	Bell (Ken.) Harlan (Ken.) Letcher (Ken.) Lee (Va.) Scott (Va.) Wise (Va.)

2. Central Louisiana (8 counties)

Success Counties (4)	Failure Counties (4)
Natchitoches	Avoyelles
Rapides	Catahoula
Veinin	Grant
Winn	IaSalle

3. Central Tennessee (9 counties)

Success Counties (5)	Failure Counties (4)
Cumberland	Clay
DeKalb	Fentress
Putnem	Jackson '
Marren	Pickett
White	

4. Northeast Mississippi (3 counties)

Success Counties (3)	Failure Counties (0)
Alcorn Prentiss	
Tippah	

5. Northwest Arkansas (3 counties)

Success Counties	(3)	<u>Failure</u>	Counties	(0)
Benton				
Carroll				
Machineten				

- 6. Southeast Mississippi - Southwest Alahama (9 counties)

Success Co	<u>xaties</u> (5)	Failure Cour	nties (4)
Choctav	(Ala.)	Forrest.	(Miss.)
Clarko	(Ala.)	Jones	(Miss.)
Clarke	(Miss.)	Perry	(Miss.)
Greene	(Miss.)	Covington	(Miss.)
Wayne	(Miss.)		• •



Table C-2 1
Appalachian Case-Study Area :
Employment Patterns, by Key Industries, 1940-1970

						4	2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
		of			Change,	Change, 1940-50		Change,	Change, 1950-60		Change,	Change, 1960-70
	Category	Counties	1940	1950	Number	Percent	1960	Number	Percent	1970	Number	Percent
H	All Success											
	Counties	s										
	Total		25,714	32,858	7,144	27.8	30,103	-2,755	-8.4	38,577	8,474	28.2
	Agriculture		13,517	12,409	-1,108	-8.2	5,881	-6,528	-52.6	2,458	-3,423	-58.2
	Mining		267	188	-79	-29.6	361	173	92.0	189	-172	-47.6
	Manufacturing		5,578	6,921	1,343	24.1	8,939	2,018	29.5	14,652	5,713	63.9
H	All Failure											
	Counties	g										
	Total		66,898	70,847	3,949	5.9	47,084	-23,763	-33.5	43,658	-3,426	-7.3
	Agriculture		13,493	9,531	-3,962	-29.4	4,319	-5,212	-54.7	1,770	-2,549	-59.0
	Min'ng		29,722	29,632	06-	0-	12,720	-16,912	-57.1	8,213	-4,507	-35.4
	Manufacturing		3,930	4,752	822	20.9	4,533	-219	-4.6	6,262	1,729	38.1
III.	All Counties											
	Counties	#										
	Total		92,612	103,705	11,093	12.0	77,187	-26,518	-25.6	82,235	5,048	6.5
	Agriculture		27,010	21,940	-5,070	-18.8	10,200	-11,740	-53.5	4,228	-5,972	-58.5
	Mining		29,989	29,820	-169	-0.6	13,081	-16,739	-56.1	9,402	-4,679	-35.8
	Manufacturing		9,508	11,673	2,165	22.8	12,472	1,799	15.4	20,914	7,442	55.2

This was composed of Johnson and Carter counties in Tennessee; Avery, Ashe, and Watauga in North Carolina; Bell, Harlan and Leteler in Kentucky; and Lee, Scott, and Wise in Virginia.

U.S. Department of Commerce, Bureau of Census, Census of Population, 1.40, 1950, 1960, and 1970, Washington, D.C.: U.S. Government Printing Office. SOCIECE:

Table C-3
Central Louisiana Case-Study Area:
Employment Patterns by Key Industries, 1940-1970

						Ŋ	2 1 1 2	E L C L E E E E E				
		jo			Change,	1940-50		Change,	1950-60		Change,	1960-70
0	Category	Counties	1940	1950	Number	Percent	1960	Number	Percent	1970	Number	Percent
H	Ail Success											
	Counties	4	44.888	47.121	2,233	5.0	49,508	2,387	5.1	57,195	7,687	15.5
	Agriculture		17,784	9,96	-7,820	-44.0	4,568	-5,396	-54.2	2,617	-1,951	-42.7
	Mining		412	583	171	41.5	340	-243	-41.7	758	418	122.9
	Manufacturing		5,658	6,519	861	15.2	6,083	-436	-6.7	7,576	1,493	24.5
H.	All Failure											
	Counties	4										
	Total		22,843	20,133	-2,710	-11.9	19,637	-496	-2.5	20,379	742	3.8
	Agriculture		13,428	10,528	-2,900	-21.6	4,240	-6,288	-59.7	2,406	-1,834	-43.3
	Mining		664	1,166	502	75.6	965	-201	-17.2	1,219	254	26.3
	Manufacturing		2,006	3,271	1,265	63.1	2,158	-1,113	-34.0	2,721	563	26.1
III.	All Counties	Ć										
	Countles Total	Þ	67,731	67,254	-477	-0.7	69,145	1,891	2.8	77,574	8,429	12.2
	Agriculture		31,212	20,492	-10,720	-34.3	808,8	-11,684	-57.0	5,023	-3,785	-43.0
•	Mining		1,076	1,749	673	62.5	1,305	-444	-25.4	1,977	672	51.5
	Manufacturing	•	7,664	9,790	2,126	27.7	8,241	-1,549	-15.8	10,297	2,056	24.9

¹This was composed of the success counties of Natchitoches, Rapides, Vernon and Winn; and the stagnant counties of Avoyelles, Catahoula, Grant and LaSalle.

SOURCE: U.S. Department of Commerce, Bureau of Census of Population, 1940, 1950, 1960 and 1970, Washington, D.C.: U.S. Government Printing Office.

Table C-4

N.E. Mississippi Case-Study Area :

Employment Patterns by Key Industries, 1940-1970

	Number				8	BMPLOYMENT	MENT				
Category	es l	1940	1950	Change, Number	Change, 1940-150	1960	Change, Number	Change, 1950-'60	1970	Change, Number	Change, 1960 - 70 Number Percent
I. All Success Countles Total	m	19,272	21,560	2,288	11.9	19,971	-1,589	-7.4	23,275	3, 304	16.5
Agriculture		10,646	10,413	-233	-2.2	9,941	-472	-4.5	1,623	1,623 -8,318	-83.7
Mining		w	11	12	240.0	07	m	17.6	126	106	530.0
Manufacturing	_	2,602	2,884	282	10.8	5,501	2,617	90.7	9,711	4,210	76.5

1 This area was composed of Alcorn, Prentiss, and Tippah counties,

SOURCE: U.S. Department of Commerce, Bureau of Census, Census of Population, 1940, 1950, 1960 and 1970. Washington, D.C.: U.S. Government Printing Office.

Table C-5
Central Tennessee Case-Study Area:
Employment Patterns by Key Industries, 1940-1970

Of Change, 1940-'50 Change, 1940-'50 Change, 1950-'60 Change, 1960-'60 <		Number				1	MPLOYMENT	MENT				
Counties 1940 1950 Number Percent 1950 Number Percent 1950 Number 1970 Number 5 25,163 30,511 5,348 21.3 32,367 1,856 6.1 40,810 8,443 15,611 11,202 -4,409 -28.2 5,946 -5,256 -46.9 2,935 -3,011 379 932 553 145.9 68.5 9,423 3,890 70.3 15,243 5,820 4 11,784 11,109 -675 -5.7 10,155 -954 -8.6 9,264 -187 6 352 6,365 -1,937 -23.3 3,389 -2,976 -46.8 1,565 -1,824 5,820 9 477 41,620 4,673 12.6 42,522 90,778 8,256 -46.9 4,500 -48 9 4,220 6,865 9,423 3,99 -2,976 -46.8 1,565 -1,824 9<		of			Change,			Change,	09,-0561		Change,	1960-170
5 25,163 30,511 5,348 21.3 32,367 1,856 6.1 40,810 8,443 15,611 11,202 -4,409 -28.2 5,946 -5,256 -46 9 2,935 -3,011 379 932 553 145.9 635 -297 -31.9 248 -387 3,284 5,533 2,249 68.5 9,423 3,890 70.3 15,243 5,820 4 11,784 11,109 -675 -5.7 10,155 -954 -8.6 9,564 -187 467 425 -1,937 -23.3 3,389 -2,976 -46.8 1,565 -1,824 467 425 -9.0 161 -264 -62.1 72 -89 936,947 41,620 4,673 12.6 42,522 902 2.2 50,778 8,256 23,913 17,567 -6,346 -26.5 9,335 -8,232 -46.9 4,500 -4,835 846 1,357 5,13 12,369 5,562 81.7 18,962 6,593	Category	Counties	1940	1950	Number	Percent	1960	Number	Percent	1970	Number	Percent
5 25,163 30,511 5,3÷8 21.3 32,367 1,856 6.1 40,810 8,443 15,611 11,202 -4,409 -28.2 5,946 -5,256 -46 9 2,935 -3,011 379 932 553 145.9 68.5 9,423 3,890 70.3 15,243 5,820 3,284 5,533 2,249 68.5 9,423 3,890 70.3 15,243 5,820 4 11,784 11,109 -675 -5.7 10,155 -954 -8.6 9,564 -187 8,302 6,365 -1,937 -23.3 3,389 -2,976 -46.8 1,565 -1,824 467 425 -42 -9.0 161 -264 -62.1 72 -89 936,947 41,620 4,673 12.6 42,522 902 2.2 50,778 8,256 23,913 17,567 -6,346 -26.5 9,335 -8,232 -46.9 4,500 -4,835 846 1,357 -6,346 -26.5 9,335 -8,232 -46.9 4,500 -4,835 846 1,357 -6,346 -26.5 9,335 -8,232 -46.9 4,500 -4,835 846 1,357 -6,346 -26.5 9,335 -8,232 -46.9 1.7 18,962 6,593	I. All Success											
25,163 30,511 5,348 21.3 32,367 1,856 6.1 40,810 8,443 15,611 11,202 -4,409 -28.2 5,946 -5,256 -46 9 2,935 -3,011 379 932 553 145.9 68.5 9,423 3,890 70.3 15,243 5,820 3,284 5,533 2,249 68.5 9,423 3,890 70.3 15,243 5,820 4 11,784 11,109 -675 -5.7 10,155 -954 -8.6 9,564 -187 4,302 6,365 -1,937 -23.3 3,389 -2,976 -46.8 1,565 -1,824 467 425 -42 -9.0 161 -264 -62.1 72 -89 936,947 41,620 4,673 12.6 42,522 902 2.2 50,778 8,256 23,913 17,567 -6,346 -26.5 9,335 -8,232 -46.9 4,500 -4,835 846 1,357 -6,346 -26.5 9,335 -8,232 -46.9 4,500 -4,835 846 1,357 -6,346 -26.5 9,335 -8,232 -46.9 4,500 -4,895 846 1,357 -6,346 -26.5 9,335 -8,232 -46.9 1,910 -476	Counties	ស										
15,611 11,202 -4,409 -28.2 5,946 -5,256 -46.9 2,935 -3,011 379 932 553 145.9 635 -297 -31.9 248 -387 3,284 5,533 2,249 68.5 9,423 3,890 70.3 15,243 5,820 4 11,784 11,109 -675 -5.7 10,155 -954 -8.6 9,563 -187 467 425 -1,937 -23.3 3,389 -2,976 -46.8 1,565 -1,824 467 425 -9.0 161 -264 -6.31 72 -89 9 1,274 338 36.1 2,946 1,672 131.2 3,719 773 9 36,947 41,620 4,673 12.6 42,522 902 2.2 50,778 8,256 23,913 17,567 -6,346 -26.5 9,335 -8,232 -46.9 4,500 -4,78 9 4,220 6,807 2,562 81.7 18,962 6,593 <tbo< td=""><td>Total</td><td></td><td>25,163</td><td>30,511</td><td>5,348</td><td>21.3</td><td>32,367</td><td>1,856</td><td>6.1</td><td>40,810</td><td>8,443</td><td>1.02</td></tbo<>	Total		25,163	30,511	5,348	21.3	32,367	1,856	6.1	40,810	8,443	1.02
379 932 5533 145.9 635 -297 -31.9 248 -387 4 11,784 11,109 -675 -5.7 10,155 -954 -8.6 9,563 -187 9 467 425 -1,937 -23.3 3,389 -2,976 -46.8 1,565 -1,824 467 425 -9.0 161 -264 -62.1 72 -89 9 36,947 41,620 4,673 12.6 42,522 902 2.2 50,778 8,256 23,913 17,567 -6,346 -26.5 9,335 -8,232 -46.9 4,500 -4,835 9 36,947 41,620 4,673 12.6 9,335 -8,232 -46.9 4,500 -4,835 846 1,357 511 60.4 796 -561 -41.3 320 -476 9 4,220 6,807 2,587 61.3 12,369 5,562 81.7 18,962 6,593	Agriculture		15,611	11,202	-4,409	-28.2	5,946	-5, 256	6.98-	2,935	-3,011	-50.6
4 11,784 11,109 -675 -5.7 10,155 -954 -8.6 9,264 -187 4 11,784 11,109 -675 -5.7 10,155 -954 -8.6 9,264 -187 467 425 -1,937 -23.3 3,389 -2,976 -46.8 1,565 -1,824 467 425 -1,937 -23.3 3,389 -2,976 -46.8 1,565 -1,824 467 425 -1,937 -2,946 1,672 131.2 3,719 773 9 36,947 41,620 4,673 12.6 42,522 902 2.2 50,778 8,256 23,913 17,567 -6,346 -26.5 9,335 -8,232 -46.9 4,500 -4,835 9 4,220 6,807 2,587 61.3 12,369 5,562 81.7 18,962 6,593	Mining		379	932	553	145.9	635	-297	-31.9	248	-387	-60.9
4 11,784 11,109 -675 -5.7 10,155 -954 -8.6 9,569 -187 8,302 6,365 -1,937 -23.3 3,389 -2,976 -46.8 1,565 -1,824 467 425 -42 -9.0 161 -264 -62.1 72 -89 -936 1,274 338 36.1 2,946 1,672 131.2 3,719 773 73 9 36,947 41,620 4,673 12.6 42,522 902 2.2 50,778 8,256 23,913 17,567 -6,346 -26.5 9,335 -8,232 -46.9 4,500 -4,835 846 1,357 511 60.4 796 -561 -41.3 320 -476 4,220 6,807 2,587 61.3 12,369 5,562 81.7 18,962 6,593	Minufacturing		3,284	5,533	2,249	68.5	9,423	3,890	70.3	15,243	5,820	61.8
4 11,784 11,109 -675 -5.7 10,155 -954 -8.6 9,969 -187 8,302 6,365 -1,937 -23.3 3,389 -2,976 -46.8 1,565 -1,824 467 425 -9.0 161 -264 -62.1 72 -89 936 1,274 338 36.1 2,946 1,672 131.2 3,719 773 9 36,947 41,620 4,673 12.6 42,522 902 2.2 50,778 8,256 23,913 17,567 -6,346 -26.5 9,335 -8,232 -46.9 4,500 -4,835 846 1,357 511 60.4 796 -561 -41.3 320 -476 4,220 6,807 2,587 61.3 12,369 5,562 81.7 18,962 6,593	II. All Failure											
11,784 11,109 -675 -5.7 10,155 -954 -8.6 9,564 -187 8,302 6,365 -1,937 -23.3 3,389 -2,976 -46.8 1,565 -1,824 467 425 -42 -9.0 161 -264 -62.1 72 -89 936 1,274 338 36.1 2,946 1,672 131.2 3,719 773 9 36,947 41,620 4,673 12.6 42,522 902 2.2 50,778 8,256 23,913 17,567 -6,346 -26.5 9,335 -8,232 -46.9 4,500 -4,835 846 1,357 511 60.4 796 -561 -41.3 320 -476 4,220 6,807 2,587 61.3 12,369 5,562 81.7 18,962 6,593	Counties	4										
8,302 6,365 -1,937 -23.3 3,389 -2,976 -46.8 1,565 -1,824 467 425 -9.0 161 -264 -62.1 72 -89 936 1,274 338 36.1 2,946 1,672 131.2 3,719 773 9 36,947 41,620 4,673 12.6 42,522 902 2.2 50,778 8,256 23,913 17,567 -6,346 -26.5 9,335 -8,232 -46.9 4,500 -4,835 846 1,357 511 60.4 796 -561 -41.3 320 -476 9 4,220 6,807 2,587 61.3 12,369 5,562 81.7 18,962 6,593	Total		11,784	11,109	-675	-5.7	10,155	-954	-8.6	690,6	-187	-1.8
9 36,947 41,620 4,673 12.6 42,522 902 2.2 50,778 8,256 23,913 17,567 -6,346 -26.5 9,335 -8,232 -46.9 4,500 -4,835 846 1,357 511 60.4 796 -561 -41.3 320 -476 4,220 6,807 2,587 61.3 12,369 5,562 81.7 18,962 6,593	Agriculture		8,302	6, 365	-1,937	-23.3	3,389	-2,976	-46.8	1,565	-1,824	-53.8
9 36,947 41,620 4,673 12.6 42,522 902 2.2 50,778 8,256 23,913 17,567 -6,346 -26.5 9,335 -8,232 -46.9 4,500 -4,835 846 1,357 511 60.4 796 -561 -41.3 320 -476 q 4,220 6,807 2,587 61.3 12,369 5,562 81.7 18,962 6,593	Mining		467	425	-42	-9.0	191	-264	-62.1	72	68-	-55.3
9 36,947 41,620 4,673 12.6 42,522 902 2.2 50,778 8,256 23,913 17,567 -6,346 -26.5 9,335 -8,232 -46.9 4,500 -4,835 846 · 1,357 511 60.4 796 -561 -41.3 320 -476 9 4,220 6,807 2,587 61.3 12,369 5,562 81.7 18,962 6,593	Manufacturing		936	1,274	338	36.1	2,946	1,672	131.2	3,719	773	26.2
9 36,947 41,620 4,673 12.6 42,522 902 2.2 50,778 8,256 23,913 17,567 -6,346 -26.5 9,335 -8,232 -46.9 4,500 -4,835 846 · 1,357 511 60.4 796 -561 -41.3 320 -476 q 4,220 6,807 2,587 61.3 12,369 5,562 81.7 18,962 6,593	III. All Counties		•									
36,947 41,620 4,673 12.6 42,522 902 2.2 50,778 8,256 1ture 23,913 17,567 -6,346 -26.5 9,335 -8,232 -46.9 4,500 -4,835 846 · 1,357 511 60.4 796 -561 -41.3 320 -476 cturing 4,220 6,807 2,587 61.3 12,369 5,562 81.7 18,962 6,593	Counties	Φ								!		
lture 23,913 17,567 -6,346 -26.5 9,335 -8,232 -46.9 4,500 -4,835 846 · 1,357 511 60.4 796 -561 -41.3 320 -476 cturing 4,220 6,807 2,587 61.3 12,369 5,562 81.7 18,962 6,593	Total		36,947	41,620	4,673	12.6	42,522	905	2.2	50,778	8,256	19.4
846 · 1,357 511 60.4 796 -561 -41.3 320 -476 cturing 4,220 6,807 2,587 61.3 12,369 5,562 81.7 18,962 6,593	Agriculture		23,913	17,567	-6,346	-26.5	9, 335	-8,232	-46.9	4,500	-4,835	-51.8
cturing 4,220 6,807 2,587 61.3 12,369 5,562 81.7 18,962 6,593	Mining		846	. 1,357	511	60.4	796	-561	-41.3	320	-476	-59.8
	Manufacturing		4,220	6,807	2,587	61.3	12,369	5,562	81.7	18,962	6,593	53.3

I This area was composed of the success counties of Cumberland, DeKalb, Putnam, Warren and White, and the failure counties of Clay, Fentress, Jackson and Pickett.

SOURCE: U.S. Department of Commerce, Bureau of Census, Census of Population, 1940, 1950, 1960 and 1970, Washington, D.C.: U.S. Government Printing Office.

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ERIC

Table C-6

N.W. Arkansas Case-Study Area :

Employment Patterns, by Key Industries, 1940-1970

	Number				3	EMPLOYMENT	MENT				
	ğ			Change,	Change, 1940-150		Change,	Change, 1950-'60		Change,	Change, 1960-170
Category	8	1940	1950	Number	Percent	1960	Number	Percent	1970	Number	Percent
I. P.1 Success Countles	m	; ; ;	6	e e	o c	26 266	60	6	20 20 20 20	16.192	44.0
Total		27,390	36,065	6,000	6.03	201100	100	•			
Agriculture		2,734	2,492	-242	-8.9	1,227	-1,265	-50.8	730	-497	-40.5
Mining		63	36	-27	-42.9	25	16	40.4	6 .	45	80.8
Manufacturing		1,654	3,459	1,805	109.1	7,411	3,952	114.3	14,158	6,747	91.0

I This area was composed of Benton, Carroll, and Washington counties.

SOURCE: U.S. Department of Commerce, Bureau of Census, Census of Population, 1940, 1950, 1960 and 1970, Washington, D.C.: U.S. Government Printing Office.

Table --7
S.E. Missisppi - S.W. Alabama Case-Study Area: Employment Patterns, by Key Industries, 1940-1970

	Number				3	MPLO	YMENT				
	jo			Change,	1940-,50		Change,	1950-,60		Change,	1960-170
Category	Counties	1940	1950	Number	Percent	1960	Number	Percent	1970	Number	Percent
I. All Success											
Counties	ហ										
Total		28,544	29,144	900	2.1	23,283	-5,861	-20.1	25,393	2,110	9.1
Agriculture		16, 355	11,213	-5,142	-31.4	3,128	-8,085	-72.1	1,035	-2,093	-66.9
Mining		48	189	140	291.7	396	208	110.6	841	445	112.4
Manufacturing		5,128	8,009	2,881	56.2	8,194	185	2.3	10,402	2,208	26.9
II. All Failure	•										
Counties	4										
Total		33,845	41,763	7,918	23.4	43,127	1,364	3.3	47,006	3,879	9.0
Agriculture		10,997	8,624	-2,373	-21.6	3,623	-5,001	-58.0	1,838	-1,785	-49.3
Mining		105	538	433	412.4	790	252	46.8	1,427	637	90.6
Manufacturing		7,683	9,916	2,233	29.1	9,779	-137	-1.4	10,714	935	9.6
III. All Counties	•										
Counties	5 1			(1	•	,	((
Total		65,389	70,907	8,518	13.7	66,410	-4,497	-6.3	72,339	5,989	9.6
Agriculture		27,352	19,837	-7,515	-27.5	6,751	-13,086	-66.0	2,873	-3,878	-57.4
· Mining		153	726	573	374.5	1,186	460	63.4	2,268	1,082	91.2
Manufacturing		12,811	17,925	5,114	39.9	17,973	48	0.3	21,116	3,143	17.5

This area was composed of the success counties of Clarke, Greene and Wayne in Mississippi, and Choctaw and Clarke in Alabama; and the stagnant counties of Covington, Forrest, Jones and Perry.

SOUNCE: U.S. Department of Commerce, Bureau of Census, Census of Population, 1940, 1950, 1960 and 1970, Washington, D.C.: U.S. Government Printing Office.

APPENDIX D

Indiana Comparison Study

The Extent of Industrialization

A similar report for nonmetropolitan labor markets in the South during the 1960's initially raised the questions: How extensive was nonfarm job growth in the 1960's? Which industries located there and what are the trends?

The first question is the extent of nonmetropolitan job growth. Several urban and regional economists have held that nonmetropolitan nonfarm job growth would be minimal, except perhaps in counties contiguous to SMSA's (i.e., SMSA fringe areas), and would be dwarfed by the growth of SMSA counties. Their chief reason was that the greater external economies of metro areas (e.g., skilled, varied, and abundant labor supply; business services; cultural amenities; etc.) would make it relatively impossible to lure factories to locate in nonmetro labor markets.

First, the hypothesis that nonfarm job growth is (1) minimal and (2) overwhelmed by SMSA increases will be examined. The test will be to examine the rates of growth of total nonfarm and total manufacturing employment, from 1959 to 1969, for counties more than fifty miles from an SMSA (thus avoiding the SMSA fringe areas). The data from Table D-1 reveal that their rates of growth were respectable: nonfarm jobs increased by one-third and manufacturing by one-fourth during the 1960's. It also shows that these rates of increase were



 $^{^{1}\}mathrm{To}$ avoid "SMSA" fringe areas, nonmetro labor markets were defined as counties more than 50 miles from an SMSA. .

Thomas Till, <u>Rural Industrialization and Southern Rural Poverty in the 1960's</u>. <u>Published as a report under OEO Grant CG-6994</u>. Austin, Texas: Center for the Study of Human Resources, University of Texas, August, 1972. Chapters 2 and 3 contain the relevant data.

Table D-1

The Extent of Nonmetropolitan Industrialization in Indiana: Nonfarm and Manufacturing Employment, 1959-69, By Distance from the Nearest SMSA and by Size of the Largest Cityl

						Total	11
			Total Nonfarm	onfarm		Manufacturing	uring
	Number	Total Monfarm		pent pro-co	Manufacturing	Employment	ment oso-so
Category	Counties	1959 1959	Number Number	Percent	1959	Number	Percent
SMSA Counties	25	792,224	225,380	28.4	390,659	59,231	15.1
Counties 0-50 Miles from 3MSA:							,
Total	62	324,281	152,883	47.1	175,456	90,656	51.6
Main City Population More than 10,000	17	205,496	104,244	50.7	117,439	62,766	53.4
Main City Population 2,500-9,999	34	109,382	43,874	40.1	55,441	25,655	46.2
Main City Population Less than 2,500	11	9,403	4,765	50.6	2,585	2,235	86.4
Counties Over 50 Miles from SMSA:							
Total	S	18,717	5,915	31.6	9,663	2,576	26.6
Main City Population More than 10,000	m	15,280	6,064	39.6	7,594	3,150	41.4
Main City Population 2,500-9,999	~	3,437	-149	-4.3	5,069	-574	-27.7
Population	0						
All Normetro Counties:							•
Total	6 7	342.998	158, 798	46.2	185,119	93,232	50.3
Main City Population More than 10,000	20	220,776	110,308	49.9	125,024	65,916	52.7
Main City Perulation 2,500-9,999	36	112,819	43,725	38.7	57,510	25,081	43.6
Main City Population less than 2,500	11	9,403	4,765	50.6	2,585	2,235	86.4

city-size as of 1960.

United States Department of Commerce, Bureau of Census. County Business Patterns. Washington, D.C.: U.S. Government Printing Office, 1959, 1969. SOURCE:



higher than those of the SMSA's. But the significance of such comparisons is reduced by the fact that only five of Indiana's 92 counties are more than 50 miles from an SMSA.

The next topic is the differences between Indiana nonmetro labor markets and those of the South (Table D-3). First, the percentage of Southern counties more than 50 miles from an SMSA is far greater than in Indiana (or, presumably, than in other states of the Old Manufacturing Belt). Secondly, the Indiana nonmetro labor markets' rates of employment growth were considerably less than those of comparable counties in the South. Third, and also unlike the South. Indiana counties in the 0-50 mile zone were superior to those in the more distant zone.

Returning to the initial hypothesis, it does not seem supported. Indiana nonmetro labor markets' employment growth was much less impressive than in the South and made less meaningful by the small number of nonmetro counties involved.

Since the overwhelming majority of Indiana nonmetro counties are within 50 miles of an SMSA (Tables D-1 and D-2), it seems worthwhile to compare the performance of all Indiana nonmetro counties with that of the SMSA's. First, nonmetro population growth rates are smaller. But to compare employment performance in nonfarm industries, population figures are too highly aggregative, since they reflect farm job changes as well. It is obvious that the decline of farm jobs has hit nonmetro counties far harder than it has affected the SMSA's. Secondly, when we turn to the more relevant figures -- nonfarm and manufacturing employment changes -- the superior performance (as judged by rates of growth) of nonmetro counties is obvious. Third, the tendency of manufacturing jobs to move (within SMSA's) from central city to suburban locations has often been remarked. What Table D-3 reveals is that manufacturing is decentralizing as well from SMSA counties to nonmetro locations. The gains of the nonmetro counties were greater absolutely, as well as relatively, in the 1960's.

Besides the hypothesis that nonmetro job growth would be small and insignificant compared to that of the SMSA's, it



³The Old Manufacturing Belt refers to the states of New England, the Middle Atlantic, and Upper Midwest -- from Massachusetts to Illinois -- where manufacturing activity has historically concentrated.

Table D-2

Population Changes in Indiana, 1960-1970, By Distance From Nearest SMSA and by Size of Main City

Category	Population 1960	Population 1970	Population Change, 1960-1970 Number Percen	Change, 970 Percent
(Toboana				
SMSA Counties	2,851,461	3,213,598	362,137	12.7
Counties 0-50 Miles from SMSA:			1	•
Total	1,689,586	1,851,821	162,235	o
Main City Population More than 10,000	875,792	982,077	165,285	12.1
Main City Population 2,500-9,999	702,427	753,346	50,919	7.2
Main City Population Less than 2,500	111,367	116,398	5,031	4.5
Counties Over 50 Miles from SMSA:				
Total	121,631	128,250	6,619	5.4
Main City Population More than 10,000	93,756	97,827	4,071	4.3
Main City Population 2,500-9,999	27,875	30,423	2,578	9.1
Main City Population Less than 2,500	0	•		
All Monmetro Counties:			1	ć
Total	1,811,217	1,980,071	168,854	٧.٠
Main City Population More than 10,000	969,548	1,079,904	110,356	11.3
Main City Population 2,500-9,999	730,302	783,769	53,467	7.3
Main City Population Less than 2,500	111,367	116,398	5,031	4.5

U.S. Department of Commerce, Bureau of Census, U.S. Census of Population, 1970 (Washington, D.C.: U.S. Government Printing Office). SOURCE:



Table 1-3

Industrialization in Indiana and the South, 1959-1969, By Distance From the Nearest SMSA and by Size of the Largest City

	Number of Counties	er Eies South	Change In Population 1960-1970 Indiana So	In tion 970 South	Change In Nonfarm Employment 1959-1969 Indiana 80	In rm gent 969 gouth	Change In Manufacturing Employment 1959-1969 Indiana Sou	In uring ment 969 South
SMSA Counties	25	153	12.7	22.4	28.4	49.7	15.1	43.7
Counties 0-50 Kiles from SMSA: Total Main City Population More than 10,000 Main City Population 2,500-9,999 Main City Population Less than 2,500	62 17 34	595 127 287 181	9.6 12.1 7.2 4.5	8 12. 8. 6 9 8 8	47.1 50.7 40.1 50.6	48.3 48.0 46.0	51.6 53.4 46.2 86.4	52.5 51.3 53.0 59.9
Counties Over 50 Miles from SMSA: Total Main City Population More than 10,000 Main City Population 2,500-9,999 Main City Population Less than 2,500	ທ m αι Φ	553 244 244	24 Q	3.4 1.9 7.1-	31.6 39.6 -4.3	48.9 47.0 50.0 52.0	26.6	61.1 49.1 69.3 78.1
All Nonmetro Counties: Total Main City Population Over 10,000 Main Ctiy Population 2,500-9,999 Main City Population Less than 2,500	67 20 36 11		9.3 7.3 4.5		46.2 49.9 38.7 50.6		57.3 52.7 43.6 86.4	

United States Department of Commerce, Bureau of Census. County Business Patterns. Washington, D.C.: U.S. Government Printing Office, 1959, 1969. SOURCE:



has also been held that employment growth rates of nonmetro counties would be directly proportional to the size of the main city of the county. The a priori reasoning for this is the same external economies argument referred to above. Table D-3 shows that this was not supported in the South. But it also shows that in Indiana the contrary is true, both for the "0 - 50 mile" and "over 50-mile" zones.

We may turn from state-wide growth patterns to examine Southern Indiana in particular (Table D-4). In general, the patterns referred to above occur in both the north and the south of the state. In particular, the SMSA and nonmetro counties whose main city had over 10,000 population in 1950 did better in the South than in the North. But in the nonmetro counties with smaller-sized main cities the results were opposite. This implies that growth rates in Southern Indiana were strongly and directly proportional to the size of the main city of the county. The smaller the county, the greater the tendency to stagnate. The 21 Southern Indiana nonmetro counties whose main city was less than 10,000 in population made very few net gains in manufacturing during the decade. This is in sharp contrast to the South.

Patterns of Industrial Structure

Next, we examine the questions: Which specific industries are important in nonmetro labor markets? Which are growing or declining? Do the patterns differ from those in the South?

Our attention is on Southern Indiana, since there most of the poverty is concentrated. First we will examine the structure in 1959; then, the changes in the 1960's. Comparisons will be made to nonmetro labor markets in the South.

First, we will inspect Indiana nonmetro counties more than 50 miles from an SMSA (Table D-5). On the SIC "one-digit" employment level, mining is relatively unimportant. Manufacturing, on the other hand, comprises over one-half of all non-farm jobs -- a considerably higher percentage than in the South. Looking within the key economic base sector of manufacturing (Table D-7) a similarity with the South immediately emerges on the SIC two-digit level: the apparel industry is important in both areas. However, the dissimilarities are more striking. Over one-half of manufacturing jobs in Southern Indiana are concentrated in the metal and metal-fabricating industries (SIC 33-37), an unimportant sector in the South



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Table D-4

industrialization in Northern and Southern Indiana, 1959-1969, By Distance From the Nearest SMSA and by Size of the Largest City

	Number of Counties	Counties	Change in Population 1960-1970	in ion 1970	Change in No Employment 1959–1969	Change in Wonfarm Employment 1959-1969	Change in F ufacturing Employment 1959-1969	104701
Category	Morthern Indiana	Southern Indiana	Northern Indiana	Southern Indiana	Northern Indiana	Southern	Northern Indiana	Souchern
SNSA Counties	17	00	14.0	6.9	25.9	44.0	8.8	61.6
Counties 0-50 Miles from SMSA:								
Main City Population More than 10,000	12	ហ	9.6	19.8	48.6	58.0	51.0	62.6
Main City Population 2,500-9,999	17	15	8.1	6.0	45.2	31.8	53.6	33.9
Main City Population Less than 2,500	ហ	9	4. 5	4.4	60.5	33.1	135.5	-1.1
Counties Over 50 Miles from SNSA:								
Main City Population More than 10,000	0	m		4.3		39.3		41.4
Main City Population 2,500-9,999	0	8		9.1		-4.3		-27.7
Main City Population Less than 2,500	0	•						

United States Department of Commerce, Bureau of Census. County Business Patterns. Washington, D.C.: U.S. Government Printing Office, 1959, 1969. SOURCE:

Tabie D-5

Southern Indiana: Leading Industries, By Share of Total Nonfarm and Manufacturing Employment, 1959-1969, in Counties Over Fifty Miles from an SMSA

1959	6		1969	•		Ciange, 1959-1969	59-1969	
STC Number			SIC Number			SIC Number		
Cua	Share	2	- Pue	Share	a	and	Share	e
Industry	Percent	Number	Industry	Percent	Number	Industry	Percent	Number
Total nonfarm	100.0	18,717		100.0	24,632		100.0	5,915
1 2 2 2 3	, ,	404		0.7	181		-3.8	-223
Manufacturing	51.6	9,663		49.7	12,239		43.6	2,576
34 Fabricated								
Metais	17.1	1,665	23 Apparel	15.8	1,928	30 Rubber		1
23 Apparel	15.3	1.475	37 Transportation			& Plastic	37.1	955
32 Stone, Clay &		•		9,3	1,136	23 Apparel	30.7	453
	4.5	1,293	32 Stone, Clay, 6		•	20 Food	7.1	183
17 Transportation			Glass	8.3	1,010		5.7	148
Faui pment	11.5	1,115	34 Fabricated			35 Wonelectrical		
33 Primary			Metals	8.2	1,002	Machinery	4.5	115
Metals	10.2	981	30 Rubber &			27 Printing &		
35 Nonelectrical			Plastic Products	3 7.8	955	Publishing	4.4	100
Machinery	9.9	635	35 Monelectrical			26 Paper	3.9	100
20 Food Products	5.7	554	Machinery	6.1	750			
			20 Food	6.0	. 737			

United States Department of Commerce, Bureau of Census. County Business Patterns 1959 and 1969. Washington, D.C.: U.S. Government Printing Office, 1959 and 1969. SOURCE:



in 1959. In the latter area over one-half of the jobs are in apparel, lumber, food and textiles -- which, apart from apparel, are much less important in Indiana.

Turning to the changes in the 1960's, mining declined -as in the South -- to an even smaller share of jobs. Manufacturing increased, but it was a less dynamic sector than in
the South. There it grew at over twice the Indiana rate, and
faster than the rate for total nonfarm employment. In Indiana
it lagged behind the nonfarm growth rate.

Looking at the 1959-1969 changes at the SIC two-digit level, apparel gains were important as in the South. However, the metal and metal-fabricating industries that grew so rapidly in the South actually declined in Indiana nonmetro labor markets.

However, we have been comparing only five Indiana counties to the Southern nonmetro labor markets. If we compare the industrial structure of all Southern Indiana counties (Tables D-6 and D-7) to the Southern markets, what patterns emerge? At the two-digit level, the Indiana focus is again on the metal and metal fabricating industries. But apparel is relatively unimportant, while furniture is the third largest industry. Electrical and nonelectrical machinery are responsible for almost one-third of the jobs.

Comparing changes in the last decade for the two areas, Indiana mining declined as before, while manufacturing succeeded better in keeping up with the nonfarm job growth rate. Inspecting the SIC two-digit manufacturing level, the metal and metal-fabricating industries did very well in the 1960's (unlike in the "50 mile plus" Indiana counties). Together they were responsible for roughly one-half of the net gain of manufacturing jobs. Electrical machinery -- absent in the "50 mile plus" counties -- gained about one-third of all nonmetro manufacturing jobs. Also important were rubber and plastics and furniture (the latter was an insignificant industry in the more distant Indiana nonmetro group).

Conclusion

So far it has appeared that, as in Southern nonmetro labor markets, mining employment has decreased, while manufacturing has increased. However, in Indiana the increase of manufacturing was less dramatic than in che South, both in the size of the rate of growth and in comparison to nonfarm



Table D-6

Southern Indiana: Leading Industries, by Share of Total Wonfarm or Manufacturing Employment, 1959-1969, in All Nonmetro Counties

Share Share Share Share Share Share Share Industry Percent Bercent		7	1959			1969			Change, 1959-1969	953-1969	
Industry Percent Number Industry Percent Number Industry Percent Number Industry Percent No.0 All Nonfarm 100.0 108,221 1.6 2,510 1.6 2,510 1.15 Manufacturing 50.8 55,363 3.228 1.6 80,201 3.6 1.55 Electrical Products 15.6 8,659 Products 20.3 16,273 Products 11.6 Nonelectrical Nachinery 15.6 8,657 Machinery 13.0 10,460 25 Purniture 11.6 Number & Purniture 13.9 7,671 25 Furniture 12.7 10,460 Products 11.6 Stone Clay, & Burniture 13.9 A,671 25 Furniture 12.7 10,460 Prinary Metals 10.3 Stone Products 7.6 4,880 Metals 7.1 5,672 33 Frimary Metals 7.2 Pabricated 6.9 3,815 37 Frimary Metals 7.6 5,610 39 Frimary Me	<u>چ</u>	l		ire	SIC Number and	Sha	re	W	IC Number and	Sha	re
Mining 3.00.0 108,921 100.0 155,446 100.0 155,446 100.0 150.0 4.00.0 Mining 3.0 3,228 1.6 2,510 2,510 1.5 1.5 1.6 2,510 1.5 1.5 1.5 1.6 2.5 1.5	ł	Industry	Percent	Number	Industry	Percent	Number	ļ	Industry	Percent	Number
Handrog 3.0 3,228 Handrocturing 50.8 55,363 Handrocturing 50.3 50,201 Handrocturing 50.3 Handrocturing	Tot	tal Nonfarm	100.0	108,921		100.0	155,446			100.0	46,525
Sintantial		Mining	3.0	3,228		1.6	2,510			-1.5	-718
State Stat		Manufacturing	50.8	55, 363		51.6	80,201			53.4	24,938
Nonelectrical 35 Nonelectrical 13.0 10,460 25 Purniture 11.6 Nachinery 13.9 7,671 25 Furniture 12.7 10,160 Plastic Products 10.3 Stone- Clay, & Stone- Clay, & Stone- Clay, & Stone- Clay, & B.8 4,880 Metals 7.1 5,672 33 Frimary Metals 10.3 Pood Products 7.6 4,195 20 Food Products 7.0 5,610 39 Miscellaneous 7.6 Pabricated Metals 6.9 3,815 33 Primary Metals 6.3 5,078 34 Fabricated Metals 7.5 Primary Metals 4.6 2,521 Manufacturing 3.7 2,966 Machinety 7.3	. 36		15.6	8,659	36 Electrical Products	20.3	16,273	36	Electrical Products	31.0	7,704
Furniture 13.9 7,671 25 Furniture 12.7 10,160 Plastic Products 10.3 Stone. Clay, 6 Glass Products 8.8 4,880 Metals 7.1 5,672 33 Frimary Metals 10.3 Food Products 7.6 4,195 20 Food Products 7.0 5,610 39 Miscellaneous 7.6 Primary Metals 6.9 3,815 33 Primary Metals 6.3 5,078 34 Fabricated 7.5 Primary Metals 4.6 2,521 Manufacturing 3.7 2,966 Machinery 7.3	35		15.6	8,657	35 Nonelectrical Machinery	13.0	10,460	25	Purniture	11.6	2,889
Stone- Clay, 6 Glass Products Glass Products Food Products	25		13.9	7,671	25 Furniture	12.7	10,160	30	Rubber & Plastic Products		2,568
Food Products 7.6 4,195 20 Food Products 7.0 5,610 39 Miscellaneous 7.6 Pabricated Metals 6.3 5,078 34 Pabricated 7.5 Metals 39 Miscellaneous 7.5 Primary Metals 4.6 2,521 Manufacturing 3.7 2,966 Machinery 7.3	32		æ.	4,880	34 Fabricated Metals	7.1	5,672	33	Primary Metals	10.3	2,557
PabricatedFabricated7.5Metals6.35,07834 Pabricated7.5Metals39 Miscellaneous35 MonelectricalPrimary Metals4.62,521Manufacturing3.72,966Machinery7.3	20		7.6	4,195		7.0	5,610	39	Miscellaneous Manufacturing	7.6	1,891
4.6 2,521 Manufacturing 3.7 2,966 Machinery 7.3	36		6.9	3,815	33 Primary Metals	6.3	5,078	34	Pabricated Wetals	7.5	1,857
	33	Primary Metals	4 .	2,521	39 Miscellangous Manufacturing	3.7	2,966	35	Monelectrical Machinery	7.3	1,813

County Business Patterns. Washington, D.C.: United States Department of Commerce, Bureau of Census. U.S. Government Printing Office, 1959, 1969. SOURCE:



Table D-7

Southern Indiana and the South: Comparative Industrial Structure of the South, of Indiana Counties Over 50 Miles from an SMSA, and of All Indiana Nonmetro Counties, by Selected Industries

		1959			1969		Change	Change, 1959-1969	
	Indiana	ana	South	Indiana	2	South	Indiana	25	South
		All			All			All	
	50 Mile +	Normetro		50 Mile +	Monmetro		50 Mile +	Normetro	
SIC Number and Industry	Counties	Counties		Counties	Counties		Counties	Count les	
Total Nonfarm	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Mining	2.2	3.0	1.7	0.7	1.6	1.1	-3.8	-1.5	-0.7
Manufacturing	51.6	50.8	38.7	49.7	51.6	35.8	43.6	53.4	27.6
20 Food Products	5.7	7.6	11.0	6.0	7.0	8.4	7.1	5.7	6.3
22 Textiles	1.8	0.3	9.7	1.4	0.2	7.7	0.0	0.0	4.5
	15.3	3.8	17.7	15.8	3.7	20.2	17.6	3.5	24.5
	1.8	2.2	17.5	2.6	2.7	6.6	5.7	3.7	-2.2
	0.0	13.9	3.0	0.0	12.7	4.3	0.0	11.6	6.3
26 Paper	2.3	1.6	6.3	2.6	1.3	4.4	3.9	9.0	1.4
	4.2	1.4	8.3	2.1	6.0	8.3	-5.9	-0.4	8.5
	0.0	0.7	1.3	7.8	3.7	2.3	37.1	10.3	3.9
	4.0	3.1	3.2	3.7	2.5	3.0	2.3	o	2.8
32 Stone, Clay & Glass									
Products	13.4	8 .8	1.4	8.3	3.1	1.9	-11.0	-4.5	2.8
33 Primary Metals	10.2	4.6	1.8	4.4	6.3	2.4	-17.2	10.3	3.2
34 Fabricated Metals	17.1	6.9	1.6	8.2	7.1	2.4	-25.3	7.5	e. 6.
35 Nonelectrical								1	(
Machinery	9.9	15.6	1.5	6.1	13.0	5.6	4.5	7.3	4.5
36 Electrical Machinery	0.0	15.6	1.6	0.0	20.3	ي ف	0.0	31.0	12.7
37 Transportation	(((((•	Ġ	•	C
Equipment	11.5	3.0		9.8	3.0	J. J	a. 5	7	p V

United States Department of Commerce, Bureau of Census. County Business Patterns. Warhington, D.C.: U.S. Government Printing Office, 1959, 1969. SOURCE

job growth in general. At the two-digit level, the emphasis in Indiana was far more on metal and metal-fabricating industries than in the South, although changes in the South in the 1960's were shifting in that direction. It appears that for the first time, in the 1960's, the Southern nonmetro labor markets gained a healthy share of increases in industries which had long been important in nonmetro counties of Indiana. Apparel was important in nonmetro labor markets in both areas, revealing a tendency to seek locations distant from large cities. Rubber and plastic products (SIC 30) became important in both areas in the 1960's, especially in Indiana.



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Cookeville, Tennessee

October 11, 1974

Bookkeeper Bell-Whitney Community Action

Agency

Pineville, Kentucky

August 2, 1974

David Boykins Assistant to the Mayor

A'exandria, Louisiana

August 13, 1974

Estle Bull Assistant Director

Employment Security Bureau

Fayetteville, Arkansas

August 8, 1974

John Carr Manpower Planner, Upper Cumberland

Planning and Develorment District

Cookeville, Tennessee

October 11, 1974



R. Dale Christy

Executive Vice-President
Fayetteville Chamber of Commerce
Fayetteville, Arkansas
August 8, 1974

Dean Cotton

Director, Chamber of Commerce Corinth, Mississippi May 26, 1972 August 12, 1973

Lee Crean

Executive Director, OMD, Indiana Office of Manpower Development Indianapolis, Indiana September 17, 1974

Irlyn Cruthirds

Manager of Analysis and Forecast Section, Mississippi Research and Development Center Jackson, Mississippi May 24, 1972

John Dandy

Central Louisiana Community Action Program Alexandria, Louisiana August 13, 1974

Roy Dickerson

Research Coordinator, Director of Evaluation and Planning, Tennessee State Department of Economic and Community Development
Nashville, Tennessee
October 10, 1973

Rita Dixon

Local Office Supervisor, Harlan Bell Employment Service Harlan, Kentucky August 2, 1974

Bevon Dunlap

Executive Vice-President, Harrison Chamber of Commerce Harrison, Arkansas August 9, 1974

Robert East

Manpower Planner, First
Tennessee-Virginia Development
District
Johnson City, Tennessee
August 6, 1974

Stan Edmond

Plant Manager, Southbridge Plastics Company Corinth, Mississippi August 13, 1973

Harold Edwards

Tennessee State Office of Economic Opportunity Nashville, Tennessee October 10, 1973

Charles Evers

Mayor Fayette, Mississippi May 23, 1972 August 14, 1974

Harry McFarland

Office of Manpower Development Indianapolis, Indiana January 9, 1974

Bert Fells

Director, Forrest-Stone Area Opportunities, Incorporated Hattiesburg, Mississippi August 16, 1974

William Forester

Director, Employment Security Bureau, Harlan, Kentucky August 2, 1974

Tom Fields

Director,
Industrial Development Division
Kentucky State Department of
Commerce
Frankfurt, Kentucky
July 31, 1974

William Gardner

Deputy Director, Upper Eastern Tennessee Economic Opportunity Authority, Incorporated Kingsport, Tennessee August 6, 1:74

Arthur George

Executive, Tyrone Hydraulics Company Corinth, Mississippi August 13, 1973 Phil Grebe Indiana State Industrial Board Indianapolis, Indiana

January 9, 1974

Harold Hale Supervisor of Career Development

Employment Security Bureau

Hattiesburg, Mississippi

August 15, 1974 August 16, 1974

Charles Herron Industrial Representative,

Mississippi Agriculture and

Industrial Board Jackson, Mississippi

May 24, 1972

Jerry Hawthorne / Assistant Director, Natchez-Adams Chamber of Commerce

Natchez, Mississippi

May 24, 1972

Don Hieda Research Director, Office of

Manpower Development Indianapolis, Indiana

September 17, 1974

Roby Howard President, Farmer's State Bank

Mountain City, Tennessee Letter of August 19, 1974

Cliff Ingram Executive Director, LBJ & C

Community Action Agency

Monterey, Tennessee

August 20, 1974

Charles Kirk Director, Economic Development

Commission

New Albany, Indiana September 16, 1974

Victor Kirk Alexandria, Louisiana

August 13, 1974

Paul Lamberth Assistant Staff Director,

Tennessee State Manpower Council

Nashville, Tennessee

October 10, 1973



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Tom Lancaster

Office of Research, Tennessee Department of Employment Security Bureau Nashville, Tennessee October 9, 1974

October 10, 1974

Executive Director, Putnam County Eldon Leslie

Chamber of Commerce Cookeville, Tennessee October 11, 1974

Lloyd Loftus Director, Human Resources Agency

Cookesville, Tennessee

August 20, 1974

Executive Director, Industrial Miles Luke

Development Board Alexandria, Louisiana August 12, 1974

Mississippi Research and Develop-Al McReighey

ment Center

Jackson, Mississippi

May 24, 1972

Executive Vice-President, Chamber Roger A. Middleton

of Commerce

Woodward, Oklahoma

June 7, 1974

Allen Neel Regional Planner, Southwest

Mississippi Economic Develop-

ment District

Hattiesburg, Mississippi

August 15, 1974

Director, Southwest Mississippi Leslie Newcomb

Economic Development District

Hattiesburg, Mississippi

August 15, 1974

William L. Parkman Executive Director, Southwest

Mississippi Development District

McComb, Mississippi

May 24, 1972





Krishan Paul

Systems Development Director,
Division of Evaluation and
Planning, Tennessee State
Department of Economic and
Community Development
Nashville, Tennessee
October 10, 1973

Reg W. Poorbaugh

Director, Research Division,
Department of Development,
Oklahoma State
Oklahoma City, Oklahoma
June 6, 1974

John Price

Director, Upper Eastern Tennessee Economic Opportunities Authority, Incorporated Kingsport, Tennessee August 6, 1974

Sherrie Reynolds

Researcher, First Tennessee-Virginia Development District Johnson City, Tennessee August 6, 1974

Charles R. Smith

Manager, Alcorn County Employment Security Bureau Corinth, Mississippi August 14, 1973

Billy Terhune

Kentucky Governor's Manpower Planning Staff Frankfurt, Kentucky July 31, 1974

Ronald Trout

Assistant Regional Planner, Kisatchie-Delta Regional Planning and Development District Alexandria, Virginia August 12, 1974

Ernie Wilkerson

Director of Tourism and Industrial Services, North West Arkansas Economic Development District Harrison, Arkansas August 9, 1974 Dorothy Woodard

Deputy Director, Forrest-Stone Area Opportunity, Incorporated Hattiesburg, Mississippi

August 16, 1974

John Woody

Labor Market Analyst, Tennessee Department of Employment Security Bureau Johnson City, Tennessee

August 5, 1974

William Wright

Industrial Specialist, Central Louisiana Electric Company Alexandria, Louisiana August 12, 1974

Wendell Wray

Assistant Director, Indiana Office of Manpower Development Indianapolis, Indiana January 9, 1974

Don Young

Director, Ozark Opportunities, Incorporated Harrison, Arkansas August 9, 1974

