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Ellen S. Bryant

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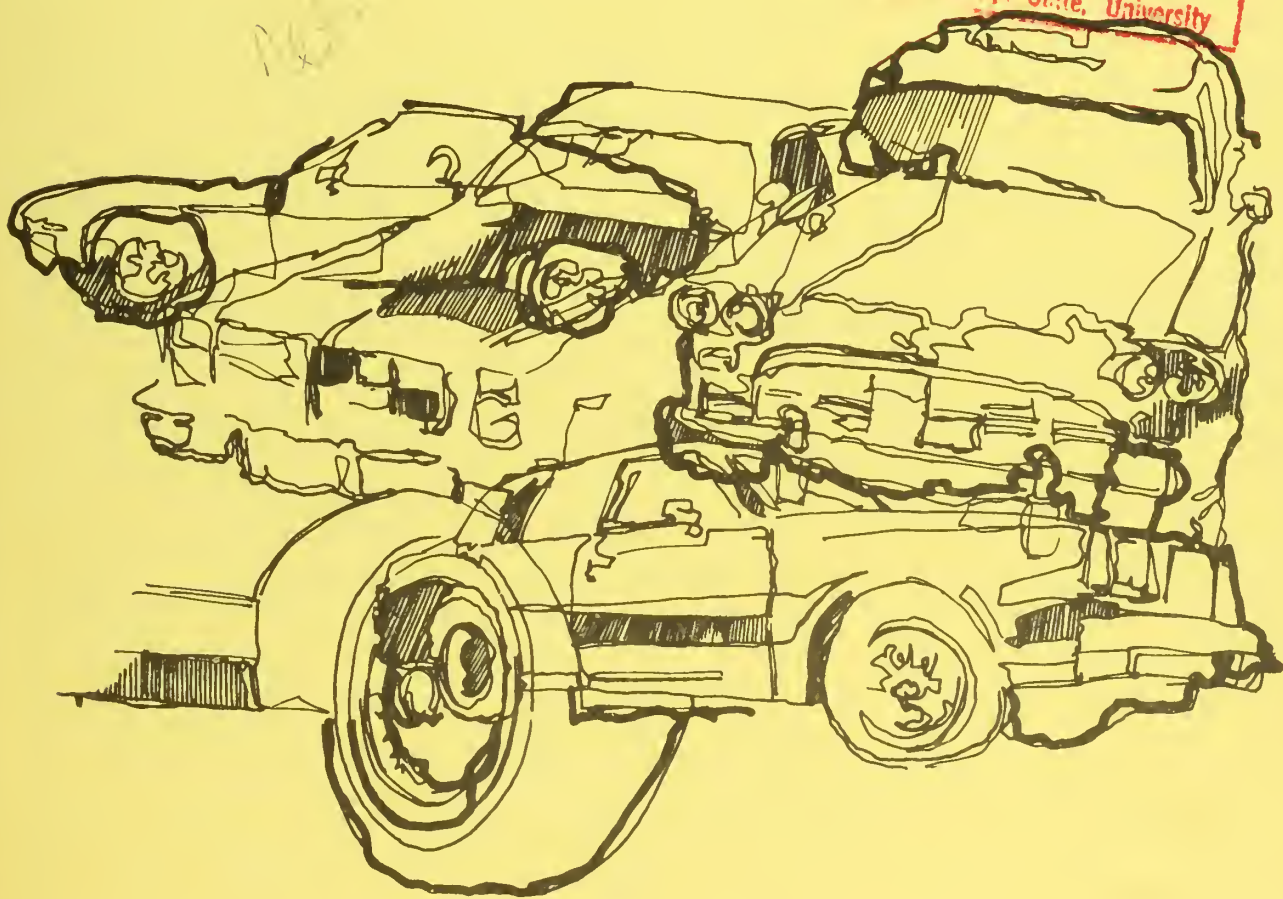
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# Changes in Commuting in Mississippi from 1960 to 1970

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Ellen S. Bryant



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# Changes in Commuting in Mississippi from 1960 to 1970<sup>2</sup>

Commuting to work by automobile is a widely observed phenomenon in the United States. The daily exchange of workers between city and suburb and between rural and urban areas involves distances as great as the span of several counties, with commuting sometimes exceeding two hours one way.<sup>1</sup>

Employed Mississippians have commuted to work from their county of residence to other Mississippi counties and to adjoining states for many years. The 1960 and 1970 national censuses documented the volume and direction of intercounty journeys to work. This publication presents a summary of these data for Mississippi. It includes sets of tables and maps that depict and compare patterns and volumes of intercounty commuting for 13 designated commuting areas in the state in 1960 and 1970.

The purpose of this publication is to present the commuting pattern of Mississippi workers in 1970, with highlights of changes in the pattern since 1960. The information is presented as an aid to individuals and groups in assessing more fully the dynamics and interdependence of economic change in and around their local areas and to provide a background for future studies of commuting and its impact on rural and industrial development.

**Statewide  
Commuting Patterns**  
Employment growth in Mississippi between 1960 and 1970 incorporated a disproportionate increase in numbers of intercounty

commuters. Commuters increased by 76% while numbers of employed residents increased by only 11.4%, leaving the number of non-commuting workers essentially unchanged (Table A).<sup>2</sup>

TABLE A. CHANGE IN NUMBERS OF COMMUTERS CROSSING STATE AND COUNTY LINES ON THEIR JOURNEY TO WORK, MISSISSIPPI RESIDENTS AND RESIDENTS OF ADJOINING STATES, 1960 AND 1970.

Type of Worker	Number Working		Percent Change
	1970	1960	
Mississippi Residents Working			
Total	743,100	666,712	11.4
Inside County of Residence	574,921	587,961	-2.2*
Outside County of Residence	100,627	57,089	76.3
In Place not Reported	58,552	21,662	170.3*
Working Outside State in			
Alabama	3,045	2,560	18.9
Arkansas	234	209	12.0
Louisiana	5,831	3,812	53.0
Tennessee	9,867	3,426	188.0
Total	18,977	10,007	89.6
Working in Mississippi, but			
Resident of Alabama	5,220	2,567	103.4
Resident of Arkansas	468	248	88.7
Resident of Louisiana	4,413	2,351	87.7
Resident of Tennessee	3,529	1,622	177.6
Total	13,630	6,788	100.7

\* If all the non-reported workers were arbitrarily assigned to the "work inside county of residence" category, that group would show an increase of 7.7 percent rather than the -2.2 decrease shown, but compared to the increase of 76.3% for commuting workers it still would be unimpressive.

<sup>1</sup>James N. Morgan, "A Note on the Time Spent on the Journey to Work," *Demography*, Vol. 4, No. 1 (1967), pp. 360-2.

<sup>2</sup>No effort was made to assign commuting or non-commuting status to the employed residents for whom place-of-work data were not available. Therefore, the volume of commuting undoubtedly exceeds that presented here. Nevertheless, it is felt that the data do depict major changes in commuting patterns in the state.



Exchange of commuters with adjoining states almost doubled in both directions between 1960 and 1970, but the increased flow into the state was slightly ahead of the out-of-state flow---for each out-of-state resident working in Mississippi in 1960, 1.47 Mississippians were working in a neighboring state. This ratio had decreased to 1.39 by 1970, a change that incorporated proportionately more worker exports to Tennessee and more worker imports from Louisiana, Alabama and Arkansas.

Mississippi exchanged the largest number of workers with Tennessee, with commuting between the two states totaling more than 13,000 in 1970. The number of Mississippians commuting to Tennessee to work in

1970 was almost three times the number doing so in 1960, but the number going in the opposite direction only doubled. The worker exchange ratio (the number of Mississippians working in Tennessee per Tennessean working in Mississippi) was 2.79 in 1970 and 2.1 in 1960, indicating a decrease in the relative economic strength of the Mississippi counties that border Tennessee.

Exchanges with Louisiana totaled more than 10,000 in 1970, and the exchange ratios (1.32 in 1970 and 1.62 in 1960) indicate a declining and relatively low level of economic dominance of Louisiana over southwest Mississippi.

The number of workers exchanged with Alabama was more than 8,000 in 1970---an increase of about 3,000 over 1960, but this resulted in

a decrease in the exchange ratio from parity in the earlier decade to one of economic dominance by Mississippi in 1970 (1.0 in 1960 and .58 in 1970).

Worker exchange with Arkansas was minimal in both census counts, and imports into Mississippi were larger than exports.

### County Typology

Changes in numbers of employed residents and in the number of commuters per 100 non-commuters from 1960 to 1970 were used to set up a commuting typology of counties to facilitate summarization of general commuting tendencies in Mississippi and to establish the relation of commuting tendencies to employment growth. Counties were assigned to one of four groups (Type I, Type II, Type III or Type IV) with characteristics as follow:

TABLE B. COMMUTING TRENDS TYPOLOGY, MISSISSIPPI COUNTIES

County	Percent Change in Number of Employed Residents From 1960 to 1970	Change in Number of Commuters per 100 Non-Commuters From 1960 to 1970	Rank of Number of Commuters per 100 Non-Commuters 1970
<b>Type I</b>			
Rankin	43.2	-	
Hancock	37.4	- 52.1	62
Lee	24.9	- 2.6	20
Hinds	15.8	- 1.3	69
Oktibbeha	14.8	- 2.7	73
Forrest	14.7	- 1.7	64
Grenada	12.1	- 2.1	65
Warren	8.5	- 1.0	76
Neshoba	5.5	- 2.3	82
Lauderdale	5.0	- 5.7	48
Clay	2.1	- 2.5	80
Attala	1.2	- 1.0	63
Lafayette	1.2	- 2.0	57
		- 1.4	60
<b>Type II</b>			
Jackson	68.8	+	
De Soto	65.4	3.4	53
Stone	34.9	107.6	1
Pearl River	31.0	7.6	27
Prentiss	26.2	27.1	15
George	19.9	9.2	38
Harrison	17.4	21.5	7
Greene	17.2	2.9	72
Union	16.2	2.1	9
Itawamba	16.1	4.4	39
Pontotoc	15.5	23.1	6
Wayne	14.4	19.5	13
Lamar	13.3	1.8	42
Lowndes	13.0	39.5	3
Tippah	9.6	1.2	78
Covington	8.6	9.1	52
Tishomingo	8.3	15.2	19
Lawrence	7.8	14.1	26
Simpson	7.2	7.2	30
Yalobusha	5.6	1.5	33
Scott	5.6	13.5	34
Montroe	5.3	6.0	49
Tate	4.6	2.5	45
Montgomery	4.3	17.5	31
Jones	4.0	10.3	43
Newton	4.0	2.9	59
Perry	3.9	8.3	35
Leake	3.8	26.0	5
Lincoln	3.4	7.5	32
		4.9	41

Table B. Commuting (cont.)

County	Percent Change in Number of Employed Residents From 1960 to 1970	Change in Number of Commuters per 100 Non-Commuters From 1960 to 1970	Rank of Number of Commuters per 100 Non-Commuters 1970
Benton	1.3	22.2	12
Jasper	1.2	34.5	4
Chickasaw	.8	8.5	51
Choctaw	.6	22.4	8
Clarke	.4	11.5	29
<b>Type III</b>			
Jefferson Davis	-	+	
Calhoun	.3	20.6	25
Winston	.4	5.1	47
Marshall	1.0	8.1	46
Webster	1.3	24.0	22
Panola	1.4	20.0	23
Marion	3.9	7.4	50
Alcorn	4.4	3.2	54
Claiborne	5.2	1.9	66
Bolivar	6.8	15.0	40
Copiah	7.8	.6	70
Wilkinson	10.4	8.4	37
Walshall	10.6	16.6	18
Franklin	10.7	25.6	16
Smith	11.0	8.3	17
Madison	12.3	13.1	28
Carroll	12.3	20.1	21
Amite	12.4	67.9	2
Noxubee	14.9	20.5	24
Holmes	18.0	3.6	55
Issaquena	20.0	1.7	58
Sunflower	20.2	31.4	10
Jefferson	23.7	4.4	56
Kemper	24.8	26.5	11
Sharkey	25.1	29.9	14
Tallahatchie	31.1	3.2	61
Tunica	34.6	7.0	44
Quitman	45.0	2.8	75
	72.4	15.3	36
<b>Type IV</b>			
Adams	-	-	
Pike	- 3.8	- 2.0	74
Leflore	- 9.4	- 2.9	67
Yazoo	- 11.9	- 1.6	77
Washington	- 12.4	- 1.4	68
Coahoma	- 16.6	- 2.2	81
Humphreys	- 20.7	- 0.1	79
	- 24.9	- 0.4	71

Source: Computed from data in Area Tables 1A and 1B - 13A and 13B.

*Type I*---counties with an increase in number of employed residents and a decrease in number of commuters per 100 non-commuters;

*Type II*---counties with an increase in number of employed residents and in number of commuters per 100 non-commuters;

*Type III*---counties with a decrease in number of employed residents and an increase in number of commuters per 100 non-commuters;

*Type IV*---counties with a decrease in number of employed residents and in number of commuters per 100 non-commuters (Table B).

### Commuting Patterns by Designated Areas

Thirteen commuting areas were delineated by plotting commuter streams on county outline maps and identifying their major confluences. Commuters from Mississippi counties streamed out in several directions and some counties seem to be parts of more than one commuting hinterland. These counties were assigned to two commuting areas (Table C), and the overlaps are described in the discussion of the separate areas. Four of the areas were named after SMSA (Standard Metropolitan Statistical Area) cities (Areas, 1, 4, 5 and 13), eight after the dominant (hub or 'nodal'<sup>3</sup>) county or counties they contain (Areas 2, 3, 6, 7, 8, 9, 11 and 12) and one after the area name of its three central counties (Area 10). Commuting data for each area are presented in two tables (Tables 1A and 1B - 13A and 13B) two maps (Figures 1A and 1B - 13A and 13B).

The first table for each area reports the number of residents who were employed, the number of non-commuters, the number of commuters and the number of

employed residents for whom place-of-work data were not available. The second table for each area reports the number of commuters per 100 non-commuters.

The first map for each area presents commuting patterns for 1970, and the second map presents commuting patterns for 1960. Com-muter streams are depicted by arrows, with the points showing

TABLE C. COMMUTING AREA LOCATIONS OF MISSISSIPPI COUNTIES

County	Area No.	County	Area No.
Adams	6	Leflore	2
Alcorn	8	Lincoln	7
Amite	6, 7	Lowndes	10
Attala	4	Madison	4, 5
Benton	8	Marion	7, 12
Bolivar	2	Marshall	1, 8
Calhoun	3	Monroe	9, 10
Carroll	2, 3	Montgomery	3
Chickasaw	3, 9	Neshoba	11
Choctaw	3, 10	Newton	11
Claiborne	4, 6	Noxubee	10
Clarke	11, 12	Oktibbeha	10
Clay	10	Panola	1
Coahoma	2	Pearl River	13
Copiah	5, 7	Perry	12
Covington	12	Pike	7
De Soto	1	Pontotoc	9
Forrest	12	Prentiss	8, 9
Franklin	6, 7	Quitman	1
George	13	Rankin	5
Greene	12	Scott	5, 11
Grenada	2, 3	Sharkey	2, 4
Hancock	13	Simpson	5, 12
Harrison	13	Smith	5, 12
Hinds	4, 5	Stone	13
Holmes	2, 4	Sunflower	2
Humphreys	2	Tallahatchie	2, 3
Issaquena	2, 4	Tate	1
Itawamba	9	Tippah	8
Jackson	13	Tishomingo	8
Jasper	11, 12	Tunica	1
Jefferson	6	Union	8, 9
Jefferson Davis	7, 12	Walthall	7
Jones	12	Warren	4
Kemper	11	Washington	2
Lafayette	1, 3	Wayne	12
Lamar	12	Webster	3, 10
Lauderdale	11	Wilkinson	6
Lawrence	7	Winston	10, 11
Leake	5, 11	Yalobusha	3
Lee	9	Yazoo	2, 4

<sup>3</sup>The term "node" (or "nodal" area or county) was used by Bogue in developing his functional area concept (as opposed to homogeneous regions such as state economic areas) and refers to the center of exchange in an economically heterogeneous area---in this case a county attracting sizable streams of in-commuters but sending out few workers to other counties. See Donald J. Bogue, *Principles of Demography*, New York: John Wiley and Sons, Inc., 1969, pp. 464-5.

the place of work of commuters and the base showing the number of commuters by county of origin. Commuter streams of 20 or less were omitted from counties within an area but were included for counties outside an area when it appeared that doing so would facilitate comparisons. Reference

to the maps for both areas is necessary to obtain a complete description of the commuting pattern of counties assigned to two areas.

*Variations and Similarities--*  
Most commuting in the state in 1970 occurred between adjoining

counties as local exchanges. Commuting across more than one county boundary appeared to have decreased except for the travel of workers to SMSA cities or large commercial centers.

Each commuting area contains at least one hub (or nodal) county that attracted a disproportionate number of commuting workers. Commuter to non-commuter ratios decreased from 1960 to 1970 in 70% of the nodal counties, indicating employment of larger proportions of their own residents in addition to employment of more workers from surrounding counties. Therefore, economic development of such counties may have been greater than their population growth suggests.

Numbers of employed residents and numbers of commuters in most counties in the eastern one half of the state increased from 1960 to 1970. Most counties in the western one half of the state experienced a decrease in numbers of employed residents and in numbers of commuters.

The largest commuter streams were associated with SMSA "nodes"<sup>4</sup> and large urban centers, and commuters to these centers in 1970 often were more likely to be urban than rural residents, suggesting that counties adjoining larger urban centers tend to become "bedroom" counties for such centers. However, commuting in 1970 generally was more characteristic of rural than of urban populations. Therefore, commuting appeared to be associated with two types of worker distribution---one accommodating the influx of workers to urban fringes, the other providing a means for rural people to find employment without having to move from their home communities.

TABLE 1A. EMPLOYED RESIDENTS, TOTAL AND BY COMMUTING STATUS, AREA 1 (Memphis, SMSA), BY COUNTY, MISSISSIPPI, 1970 AND 1960.

Counties	Number of Employed Residents*	Commuting Status			Unaccounted for/or Not Reported
		Non- Commuters	Commuters		
			Destination Given	Destination Not Given	
<u>1970</u>					
De Soto	11,474	4,148	6,020	284	1,022
Lafayette	7,947	6,839	661	103	344
Marshall	6,453	4,239	1,539	149	526
Panola	8,277	6,606	1,020	143	508
Quitman	4,041	3,078	637	137	189
Tate	5,691	3,630	1,126	76	859
Tunica	2,695	2,330	123	4	238
<u>1960</u>					
De Soto	6,936	4,620	1,869	182	265
Lafayette	6,666	5,664	377	335	290
Marshall	6,535	5,261	549	280	445
Panola	8,610	7,171	466	262	711
Quitman	5,580	4,217	331	87	945
Tate	5,443	4,299	486	184	474
Tunica	4,900	3,973	77	30	820

Sources: U. S. Bureau of the Census, Summary Tape of the 1970, U. S. Census Population (Mississippi State, Mississippi: Summary Tape Processing Center), Fourth Count, Tab 35; 1970 Census of Population, Report PC (1)-C26 (Washington, D. C.: USCP0), Table 123; 1960. Report PC (1)-26C, Table 83.

\*Based on the population aged 16 and over in 1970 and 14 and over in 1960.

TABLE 1B. COMMUTERS\* PER 100 NON-COMMUTERS  
AREA 1 (Memphis SMSA), BY COUNTY, MISSISSIPPI, 1970 AND 1960.

Counties	Total	1970		1960 Total
		Urban	Rural	
De Soto	152.0	587.0	97.5	44.4
Lafayette	11.2	6.7	18.1	12.6
Marshall	39.8	5.2	60.9	15.8
Panola	17.6	11.8	18.9	10.2
Quitman	25.2	7.5	30.2	9.9
Tate	33.1	16.5	41.7	15.6
Tunica	5.5	---	5.5	2.7

Source: Computed from Table 1A and comparable Census data for rural/urban areas, 1970.

\*Computations do not include employed residents for whom place-of-work data were not available. However, it is assumed that the missing data were distributed uniformly between commuters and non-commuters and that their exclusion did not affect the accuracy of described commuting patterns appreciably.

<sup>4</sup> See footnote 3.



## Memphis SMTA

The number of commuters from each county was larger in 1970 than in 1960 (Table 1A), but, despite the increase in commuting only three counties (DeSoto, Lafayette and Tate) experienced increases in the number of employed residents. The number of commuters per 100 non-commuters (Table 1B) decreased in Lafayette County (Type I) but increased in DeSoto and Tate Counties (Type II) and in Marshall, Panola, Quitman and Tunica Counties (Type III), with DeSoto having the highest commuter to non-commuter ratio of any county in the state in 1970.<sup>5</sup> Commuter to non-commuter ratios were higher for rural than for urban residents in all counties except DeSoto.

Travel of workers to jobs in Shelby County, Tennessee, dominated the commuter streams of the area in 1970 and 1960 (Figures 1A and 1B). Commuter interchange among the counties in the area increased from 1960 to 1970, and commuting by area residents to jobs in other Mississippi counties decreased relative to commuting into the area by residents of other Mississippi counties.

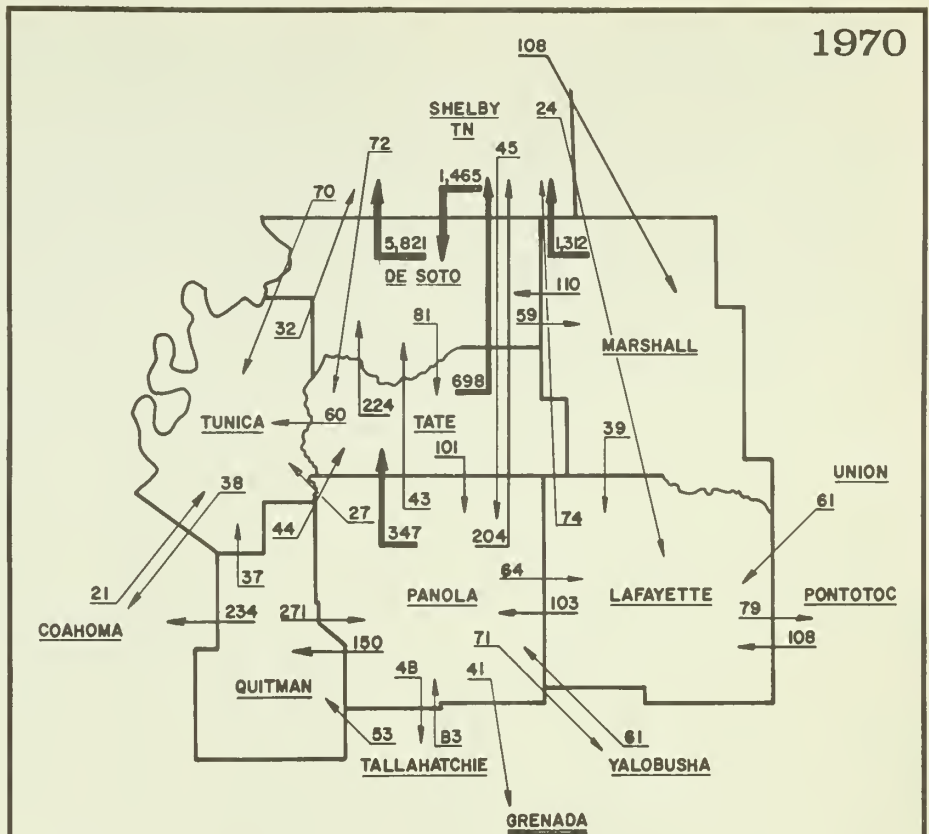


Figure 1A

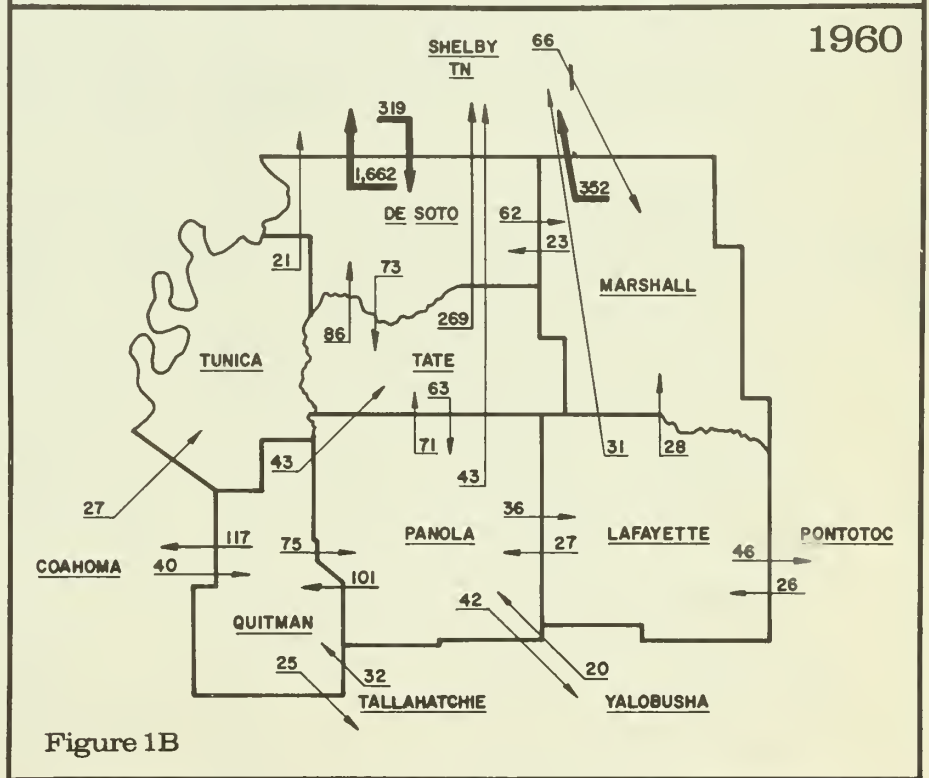


Figure 1B

<sup>5</sup>A decrease in the commuter to non-commuter ratio does not imply that the number of residents commuting to other counties necessarily decreased.



## Commuting Area 2: Bolivar, Leflore and Washington Counties

Commuting from two of the Type III counties (Bolivar and Holmes) decreased from 1960 to 1970 (Table

2A), and Bolivar County attained the status of a commuting hub as indicated by commuting streams (Figures 2A and 2B) and by the low commuter to non-commuter ratio in 1970 (Table 2B). Numbers com-

muting from the other Type III counties (Carroll, Issaquena, Sunflower and Tallahatchie) increased even though the number of employed residents in each county decreased.

TABLE 2A. EMPLOYED RESIDENTS, TOTAL AND BY COMMUTING STATUS, AREA 2, (Bolivar, Leflore, Washington Counties), BY COUNTY, MISSISSIPPI, 1970 AND 1960.

Counties	Number of Employed Residents*	Commuting Status			Unaccounted for/or Not Reported
		Non- Commuters	Commuters		
			Destination Given	Destination Not Given	
<u>1970</u>					
Bolivar	13,942	11,829	596	225	1,290
Carroll	2,822	1,333	1,228	52	209
Coahoma	11,018	10,009	293	166	550
Grenada	7,122	6,211	199	137	575
Holmes	5,967	4,679	419	117	752
Humphreys	3,951	3,472	221	8	250
Issaquena	749	470	252	—	27
Leflore	13,471	12,312	466	199	494
Sharkey	2,432	2,061	190	33	148
Sunflower	9,851	7,347	827	65	1,612
Tallahatchie	4,932	3,811	788	33	300
Washington	21,983	19,327	438	309	1,909
Yazoo	8,299	6,576	495	20	1,208
<u>1960</u>					
Bolivar	15,119	12,625	527	385	1,682
Carroll	3,287	2,370	616	51	250
Coahoma	13,888	11,419	272	262	1,935
Grenada	6,351	5,725	274	93	259
Holmes	7,462	6,182	444	160	676
Humphreys	5,261	4,407	170	138	546
Issaquena	938	679	99	52	108
Leflore	17,281	12,760	360	532	1,633
Sharkey	3,527	2,481	105	84	857
Sunflower	12,914	10,288	492	295	1,839
Tallahatchie	7,539	4,990	373	350	1,826
Washington	26,352	23,005	670	729	1,948
Yazoo	9,475	8,306	293	473	402

Source: See Table 1A.

\*Based on the population aged 16 and over in 1970 and 14 and over in 1960.

TABLE 2B. COMMUTERS\* PER 100 NON-COMMUTERS, AREA 2 (Bolivar, Leflore, Washington Counties), BY COUNTY, MISSISSIPPI, 1970 AND 1960.

Counties	1970			1960 Total
	Total	Urban	Rural	
Bolivar	7.0	7.2	6.7	6.4
Carroll	96.0	---	96.0	28.1
Coahoma	4.6	4.5	4.7	4.7
Grenada	5.4	5.2	5.7	6.4
Holmes	11.5	8.6	12.7	9.8
Humphreys	6.6	3.9	7.4	7.0
Issaquena	53.6	---	53.6	22.2
Leflore	5.4	4.0	7.9	7.0
Sharkey	10.8	---	10.8	7.6
Sunflower	12.1	9.6	13.8	7.7
Tallahatchie	21.5	5.6	25.7	14.5
Washington	3.9	3.7	4.5	6.1
Yazoo	7.8	4.6	10.4	9.2

Source: Computed from Table 2A and comparable Census data for rural/urban areas, 1970.

\*See Footnote, Table 1B.

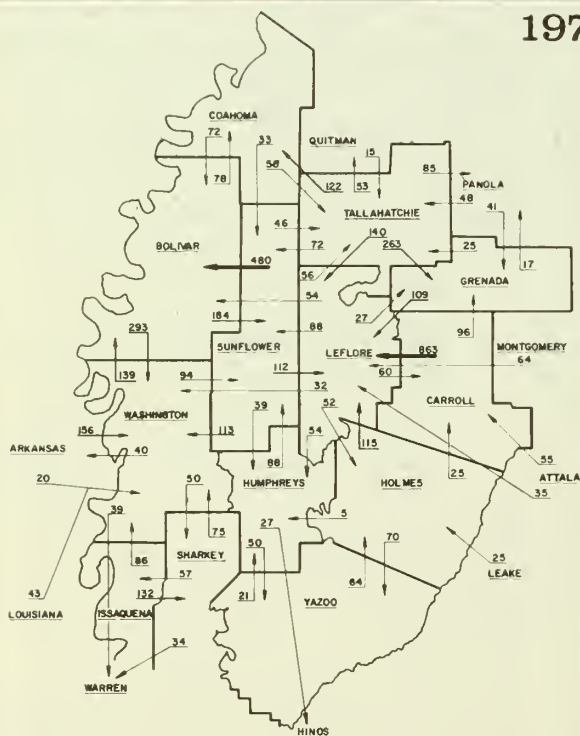


Figure 2A

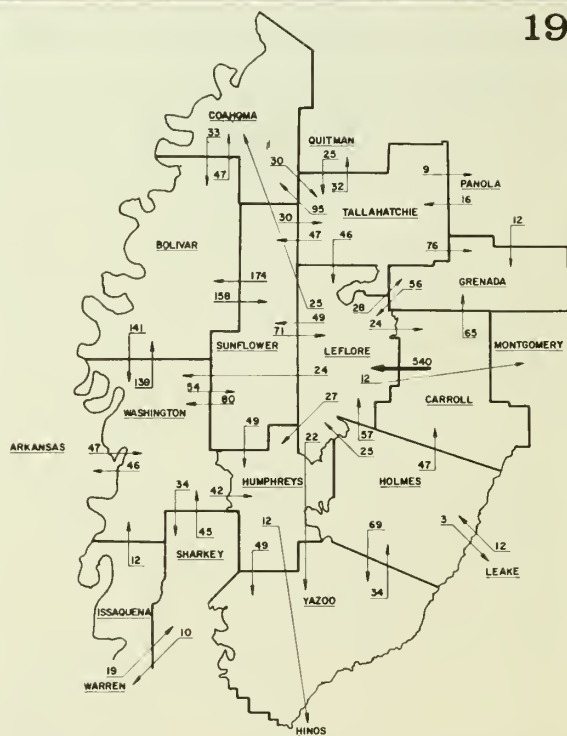


Figure 2B

Two Type IV counties (Leflore and Washington) met the criteria for commuting-hub status in 1970. The flow of commuters that brought commuting-hub status to Leflore County in 1960 more than doubled in the next decade. Washington County attained commuting-hub status in 1970 as a result of increases in numbers of commuters from other Mississippi counties and chiefly from Arkansas and Louisiana. Grenada County (Type I) retained commuting hub

status (Figures 3A and 3B).

### Commuting Area 3: Grenada County

The commuting hub status of Grenada County increased between 1960 and 1970 primarily because of the substantial increase in numbers of commuters from Calhoun, Montgomery and Yalobusha Counties (Figures 3A and 3B). Changes in the number of employed residents (Table 3A) and in the commuter to non-commuter

ratios (Table 3B) indicate that Lafayette County is approaching commuter hub status.

The considerable increase in the exchange of workers among other counties in the area indicates that industrial development of the area has become more diffuse. The impact of commuting-hub counties in adjoining areas (Figures 2A, 2B, 9A, 9B, 10A and 10B) is shown by the increase in numbers of commuters to these areas from Area 3.

TABLE 3A. EMPLOYED RESIDENTS, TOTAL AND BY COMMUTING STATUS, AREA 3 (Grenada County), 8Y COUNTY, MISSISSIPPI, 1970 AND 1960.

Counties	Number of Employed Residents *	Commuting Status			Unaccounted for/or Not Reported
		Non- Commuters	Commuters		
			Destination Given	Destination Not Given	
<u>1970</u>					
Calhoun	4,860	3,752	648	75	385
Carroll	2,882	1,333	1,228	52	209
Chickasaw	5,724	4,603	721	80	320
Choctaw	2,515	1,524	785	45	161
Grenada	7,122	6,211	199	137	575
Lafayette	7,947	6,839	661	103	344
Montgomery	4,277	3,221	524	177	355
Tallahatchie	4,932	3,811	788	33	300
Webster	3,220	2,298	876	38	8
Yalobusha	4,022	2,671	675	68	608
<u>1960</u>					
Calhoun	4,880	4,015	300	270	295
Carroll	3,287	2,370	616	51	250
Chickasaw	5,678	4,922	370	70	316
Choctaw	2,501	1,731	476	79	215
Grenada	6,351	5,725	274	93	259
Lafayette	6,666	5,664	377	335	290
Montgomery	4,100	3,467	314	86	233
Tallahatchie	7,539	4,990	373	350	1,826
Webster	3,264	2,658	440	83	83
Yalobusha	3,809	3,135	290	159	225

Source: See Table 1A.

\*Based on the population aged 16 and over in 1970 and 14 and over in 1960.

TABLE 3B. COMMUTERS\* PER 100 NON-COMMUTERS AREA 3, (Grenada County), BY COUNTY, MISSISSIPPI, 1970 AND 1960.

Counties	Total	1970		1960 Total
		Urban	Rural	
Calhoun	19.3	---	19.3	14.2
Carroll	96.0	---	96.0	28.1
Chickasaw	17.4	11.5	21.7	9.0
Choctaw	54.5	---	54.5	32.1
Grenada	5.4	5.2	5.7	6.4
Lafayette	11.2	6.7	18.1	12.6
Montgomery	21.8	20.3	23.2	11.5
Tallahatchie	21.5	5.6	25.7	14.5
Webster	39.8	---	39.8	19.7
Yalobusha	27.8	10.2	33.7	14.3

Source: Computed from Table 3A and comparable Census data for rural/urban areas, 1970.

\*See Footnote, Table 1B.

1970

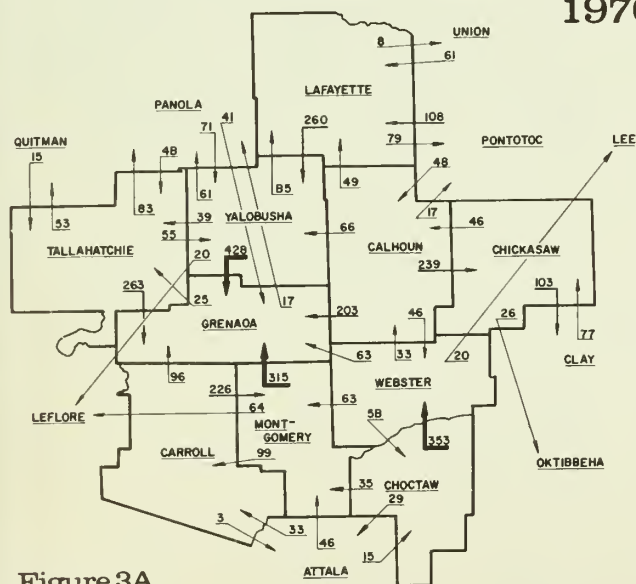


Figure 3A

1960

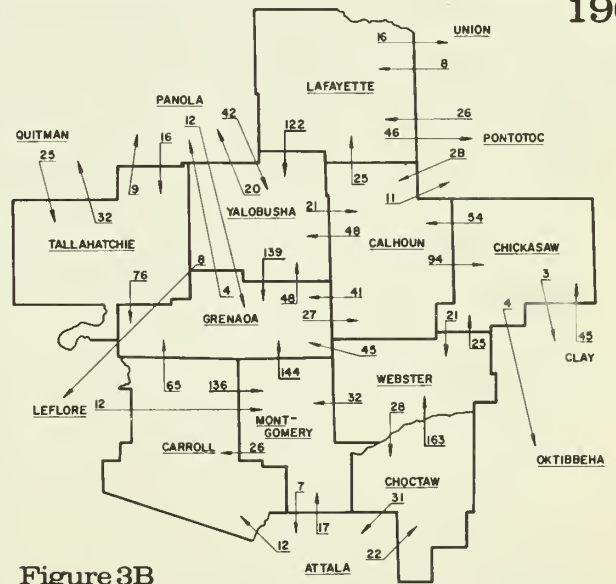


Figure 3B

## Commuting Area 4: Jackson SMSA--- West and North

Numbers of commuters from Attala, Hinds and Warren Counties (Type I) decreased from 1960 to 1970, despite the increase in numbers of employed residents in each county (Table 4A). The result was that numbers of commuters

per 100 non-commuters decreased in these counties (Table 4B) and in Holmes and Yazoo Counties (Type III).

Warren and Hinds counties are commuting hubs, and both contain nucleated industrial development. Commuting to Warren County from Hinds County was about four times that in the opposite direction

and, while the volume of the streams more than doubled between 1960 and 1970, this relative difference persisted (Figures 4A and 4B). The largest flow of commuters into Hinds County in both years was from Madison County, and commuting to Hinds from Madison almost doubled from 1960 to 1970.

TABLE 4A. EMPLOYED RESIDENTS, TOTAL AND BY COMMUTING STATUS, AREA 4, (Jackson SMSA-West and North), BY COUNTY, MISSISSIPPI, 1970 AND 1960.

Commuting Status					
Counties	Number of Employed Residents	Non- Commuters	Commuters		Unaccounted for/or Not Reported
			Destination Given	Destination Not Given	
1970					
Attala	6,188	5,124	518	72	474
Claiborne	2,765	2,046	429	59	231
Hinds	82,001	70,805	3,017	1,374	6,805
Holmes	5,967	4,679	419	117	752
Issaquena	749	470	252	---	27
Madison	8,882	6,065	2,406	94	317
Sharkey	2,432	2,061	190	33	148
Warren	15,784	14,277	284	167	996
Yazoo	8,299	6,576	495	20	1,208
1960					
Attala	6,114	5,183	457	244	230
Claiborne	2,967	2,676	168	71	52
Hinds	70,827	63,279	3,210	2,450	1,888
Holmes	7,462	6,182	444	160	676
Issaquena	938	679	99	52	108
Madison	10,127	7,685	1,263	357	822
Sharkey	3,527	2,481	105	84	857
Warren	14,542	13,296	256	479	511
Yazoo	9,475	8,306	293	473	402

Source: See Table 1A.

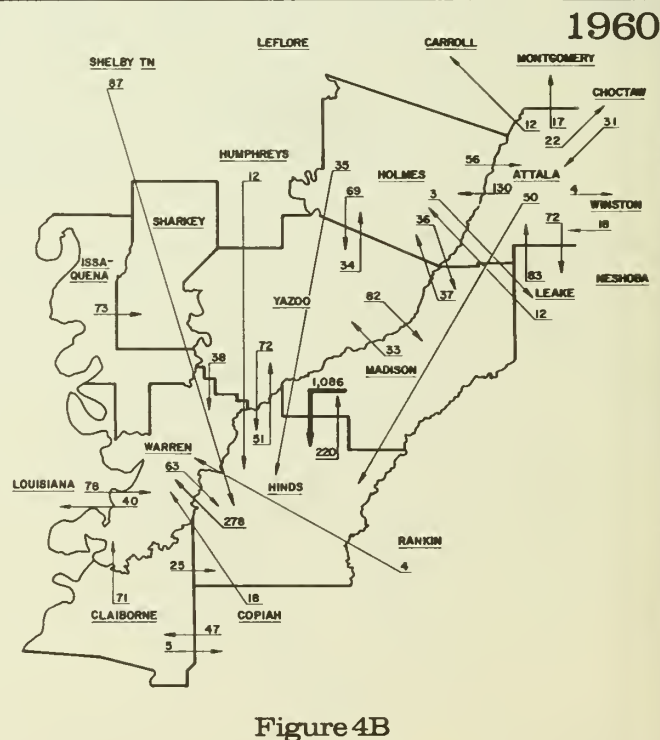
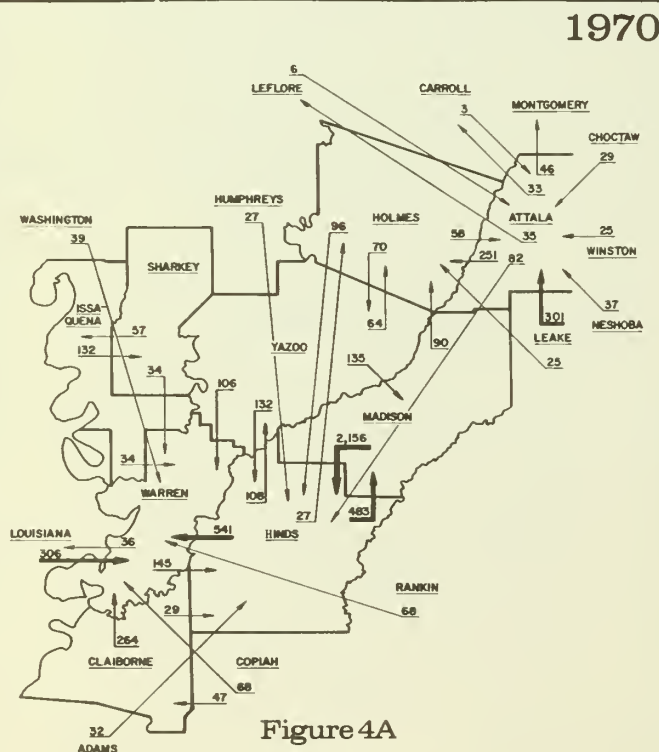
\*Based on the population aged 16 and over in 1970 and 14 and over in 1960.

TABLE 4B. COMMUTERS\* PER 100 NON-COMMUTERS AREA 4, (Jackson SMSA-West and North), BY COUNTY, MISSISSIPPI, 1970 AND 1960.

Counties	Total	1970		1960 Total
		Urban	Rural	
Attala	11.5	6.3	15.8	13.5
Claiborne	23.9	11.5	31.4	8.9
Hinds	6.2	5.8	9.5	8.9
Holmes	11.5	8.6	12.7	9.8
Issaquena	53.6	---	53.6	22.2
Madison	41.2	24.1	57.6	21.1
Sharkey	10.8	---	10.8	7.6
Warren	3.2	3.0	3.3	5.5
Yazoo	7.8	4.6	10.4	9.2

Source: Computed from Table 4A and comparable Census data for rural/urban areas, 1970.

\*See Footnote, Table 1B.





## Commuting Areas 5: Jackson SMSA--- East and South

The commuting pattern of the area in 1960 and 1970 was dominated by the interchange of commuters between Hinds (Type 1) and Rankin (Type I) and Hinds and Madison Counties (Table 5A). However, commuters per 100 non-commuters in 1960 and 1970, respectively, decreased from 8.9 to

6.2 in Hinds County and from 62.2 to only 10.1 in Rankin County (Table 5B) despite the relatively larger numbers of employed residents in Rankin County in 1970.

Numbers of commuters from counties in the periphery of the area increased much less dramatically from 1960 to 1970, and the increase in flow between them and Rankin, Madison or

other contiguous counties was often greater than the increase to Hinds (Figures 5A and 5B). Commuting from outside the area increased over the ten years, primarily as the result of increases in commuting to Hinds County from Neshoba, Newton, Jones and Pike Counties (Figures 7A, 7B, 11A, 11B, 12A and 12B).

TABLE 5A. EMPLOYED RESIDENTS, TOTAL AND BY COMMUTING STATUS, AREA 5, (Jackson SMSA - East and South), BY COUNTY, MISSISSIPPI, 1970 AND 1960.

Counties	Number of Employed Residents *	Commuting Status			Unaccounted for/or Not Reported
		Non- Commuters	Commuters		
			Destination Given	Destination Not Given	
<u>1970</u>					
Copiah	7,471	5,714	1,261	173	323
Hinds	82,001	70,805	3,017	1,374	6,805
Leake	5,402	3,726	999	104	573
Madison	8,882	6,065	2,406	94	317
Rankin	15,081	7,020	6,781	287	993
Scott	7,032	5,313	783	171	765
Simpson	6,607	4,321	1,143	122	1,021
Smith	4,576	2,567	801	134	1,074
<u>1960</u>					
Copiah	8,337	6,857	882	264	334
Hinds	70,827	63,279	3,210	2,450	1,888
Leake	5,206	4,062	688	208	248
Madison	10,127	7,685	1,263	357	822
Rankin	10,530	6,284	3,618	291	337
Scott	6,659	5,656	548	140	315
Simpson	6,161	4,701	1,104	201	155
Smith	5,217	4,141	850	114	112

Source: See Table 1A.

\*Based on the population aged 16 and over in 1970 and 14 and over in 1960.

TABLE 5B. COMMUTERS\* PER 100 NON-COMMUTERS AREA 5, (Jackson, SMSA-East and South), BY COUNTY, MISSISSIPPI, 1970 AND 1960.

Counties	Total	1970		1960 Total
		Urban	Rural	
Copiah	25.1	18.0	29.6	16.7
Hinds	6.2	5.8	9.5	8.9
Leake	29.6	10.3	37.1	22.1
Madison	41.2	24.1	57.6	21.1
Rankin	10.1	15.1	82.0	62.2
Scott	18.0	10.4	23.3	12.2
Simpson	29.3	25.1	29.8	27.8
Smith	36.4	---	36.4	23.3

Source: Computed from Table 5A and comparable Census data for rural/urban areas, 1970.

\*See Footnote, Table 1B.

1970

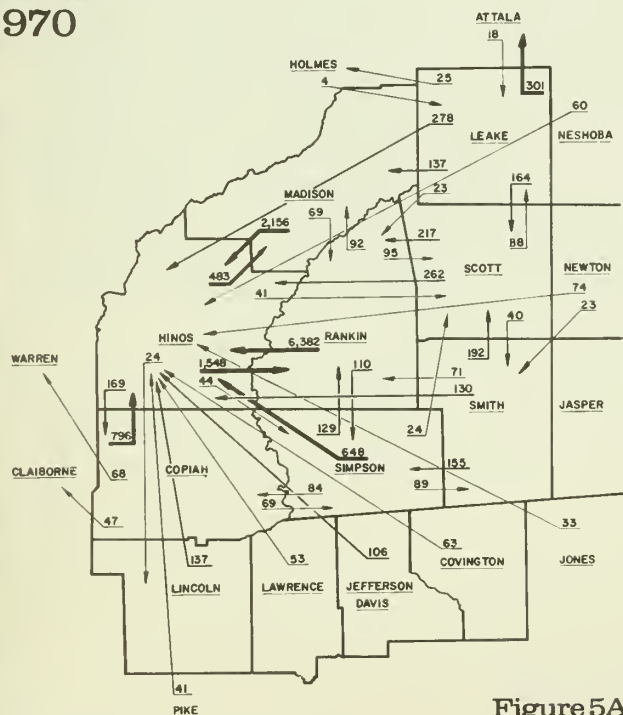


Figure 5A

1960

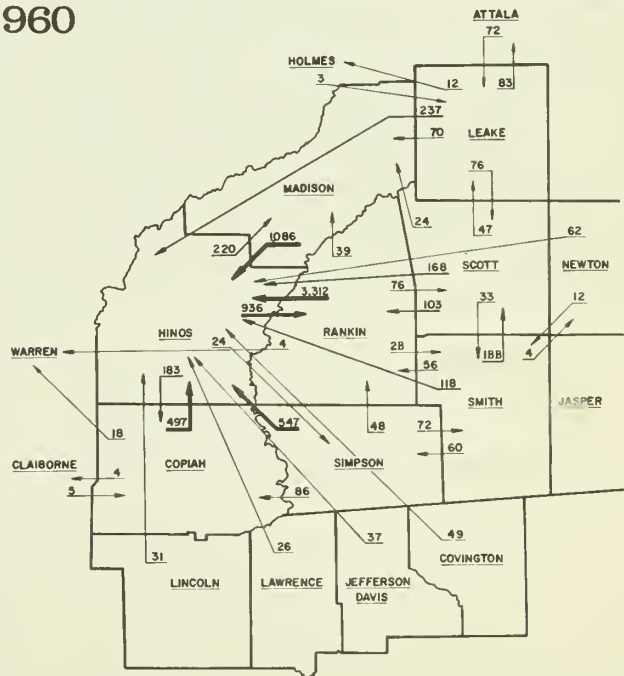


Figure 5B



## Commuting Area 6:

### Adams County

Numbers of employed residents in each county except Adams declined from 1960 to 1970 (Table 6A), but commuters per 100 non-commuters increased (Table 6B). The commuting-hub status of

Adams County (Type III) in 1960 became more apparent in 1970, primarily because of the large increase in numbers of commuters from Concordia Parish, Louisiana. Commuting into Adams County from adjacent Mississippi counties changed between the two census

periods, primarily as the result of increases in commuting to Louisiana parishes south of the area (Figures 6A and 6B) and from Pike County in Area 7 (Figures 7A and 7B).

TABLE 6A. EMPLOYED RESIDENTS, TOTAL AND BY COMMUTING STATUS, AREA 6, (Adams County), BY COUNTY, MISSISSIPPI, 1970 AND 1960.

Counties	Number of Employed Residents	Commuting Status			Unaccounted for/or Not Reported
		Non- Commuters	Commuters		
			Destination Given	Destination Not Given	
1970					
Adams	12,101	10,167	455	155	1,324
Amite	3,948	2,552	870	138	388
Claiborne	2,765	2,046	429	59	231
Franklin	2,380	1,351	481	93	455
Jefferson	2,038	1,243	575	45	175
Wilkinson	2,992	1,915	699	115	263
1960					
Adams	12,574	11,279	529	373	393
Amite	4,639	3,478	832	176	153
Claiborne	2,967	2,676	168	71	52
Franklin	2,674	1,935	586	76	77
Jefferson	2,709	2,076	369	119	145
Wilkinson	3,348	2,552	439	221	136

Source: See Table 1A.

\*Based on the population aged 16 and over in 1970 and 14 and over in 1960.

TABLE 6B. COMMUTERS\* PER 100 NON-COMMUTERS AREA 6, (Adams County), BY COUNTY, MISSISSIPPI, 1970 AND 1960.

Counties	Total	1970		1960 Total
		Urban	Rural	
Adams	6.0	6.5	5.3	8.0
Amite	39.5	---	39.5	29.0
Claiborne	23.9	11.5	31.4	9.0
Franklin	42.5	---	42.5	34.2
Jefferson	50.0	---	50.0	23.5
Wilkinson	42.5	---	42.5	25.9

Source: Computed from Table 6A and comparable Census data for rural/urban areas, 1970.

\*See Footnote, Table 1B.

1970

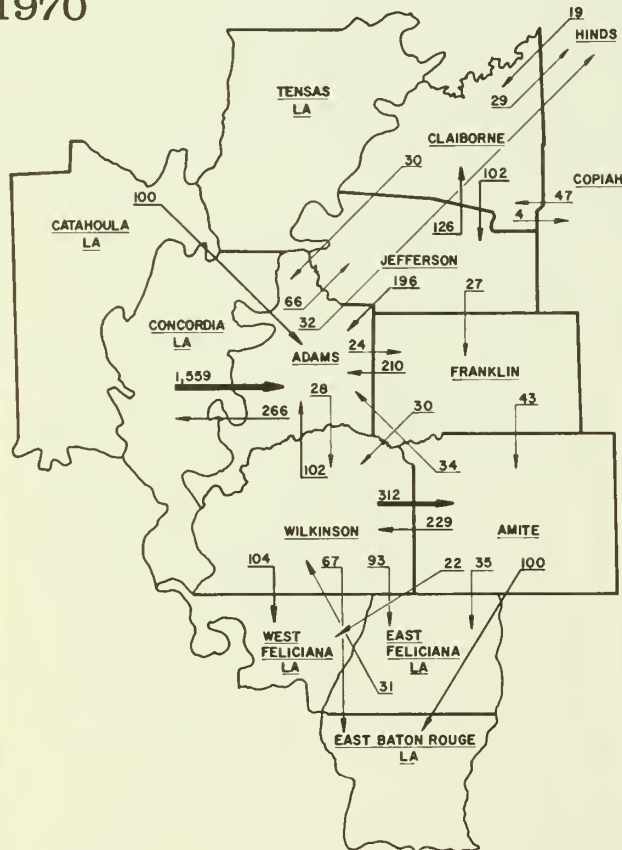


Figure 6A

1960

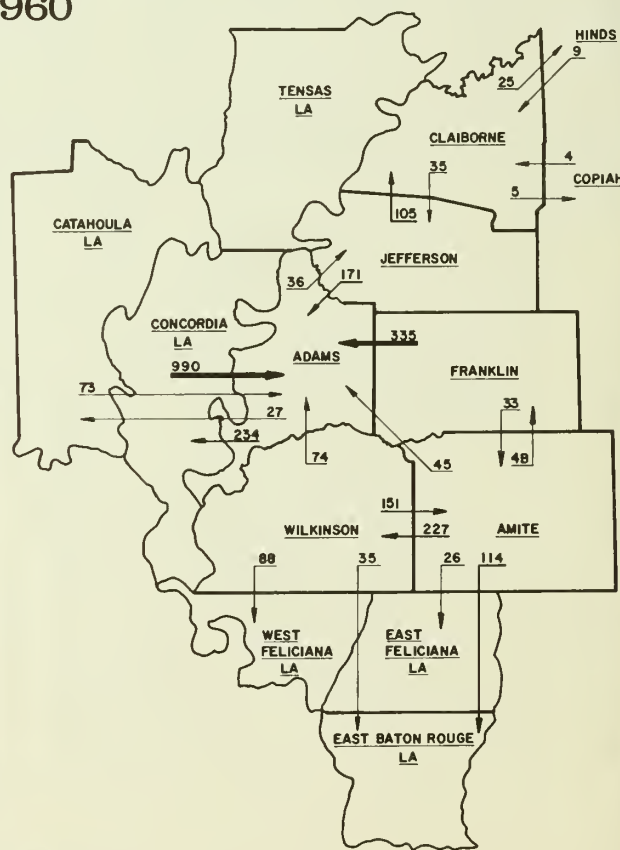


Figure 6B

## Commuting Area 7: Pike County

Only two counties (Type II counties Lawrence and Lincoln) reported increases in numbers of employed residents from 1960 to 1970 (Table 7A). Six counties experienced increases in numbers of

commuters per 100 non-commuters (Table 7B), despite decreases in numbers of employed residents.

Pike County (Type IV) became more dominant as a commuting hub, primarily as a result of increases in numbers of commuters from adjoining counties (Figures

7A and 7B). Commuting to jobs outside the area increased between the two census periods, with new streams reported to East Baton Rouge and New Orleans and to counties in other designated areas (Figures, 4A, 4B, 12A, 12B, 13A and 13B).

TABLE 7A. EMPLOYED RESIDENTS, TOTAL AND BY COMMUTING STATUS, AREA 7, (Pike County), BY COUNTY, MISSISSIPPI, 1970 AND 1960.

Counties	Number of Employed Residents *	Commuting Status			Unaccounted for/or Not Reported
		Non- Commuters	Commuters		
			Destination Given	Destination Not Given	
<u>1970</u>					
Amite	3,948	2,552	870	138	388
Copish	7,471	5,714	1,261	178	323
Franklin	2,380	1,351	481	93	455
Jefferson					
Davis	3,607	2,503	788	190	126
Lawrence	3,101	1,907	426	206	562
Lincoln	8,942	6,489	1,001	516	936
Marion	6,917	5,137	459	413	908
Pike	10,333	8,616	515	212	990
Walthall	3,890	2,437	951	158	344
<u>1960</u>					
Amite	4,639	3,478	832	176	153
Copiah	8,337	6,857	882	264	334
Franklin	2,674	1,935	586	76	77
Jefferson					
Davis	3,617	2,951	482	64	120
Lawrence	2,877	2,206	486	85	100
Lincoln	8,645	7,066	1,095	215	269
Marion	7,236	6,144	642	207	243
Pike	11,403	9,866	636	480	421
Walthall	4,358	3,536	573	129	120

Source: See Table 1A.

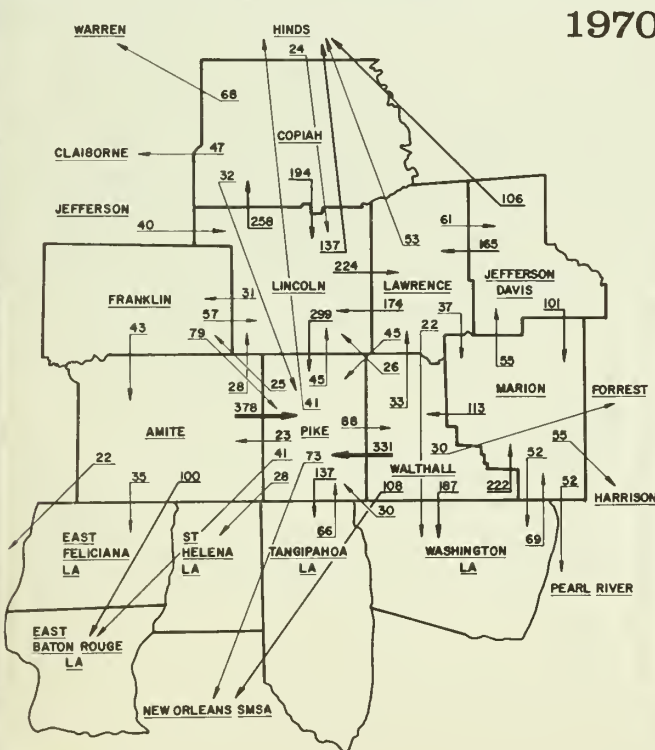
\*Based on the population aged 16 and over in 1970 and 14 and over in 1960.

TABLE 7B. COMMUTERS\* PER 100 NON-COMMUTERS AREA 7, (Pike County), BY COUNTY, MISSISSIPPI, 1970 AND 1960.

Counties	Total	1970		1960 Total
		Urban	Rural	
Amite	39.5	---	39.5	29.0
Copiah	25.1	18.0	29.6	16.7
Franklin	42.5	---	42.5	34.2
Jefferson Davis	39.1	---	39.1	18.5
Lawrence	33.1	---	33.1	25.9
Lincoln	23.4	19.9	26.4	18.5
Marion	17.0	13.4	19.3	13.8
Pike	8.4	6.1	10.1	11.3
Walthall	45.5	---	45.5	19.9

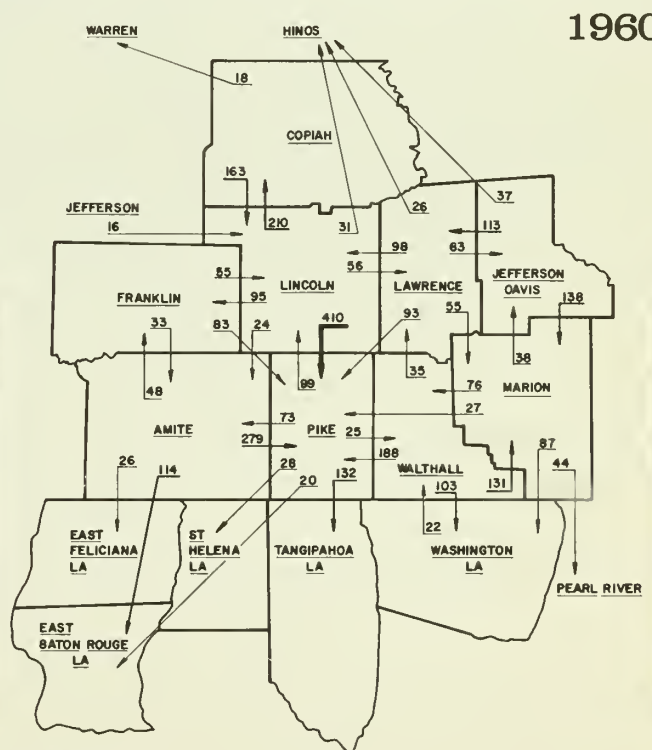
Source: Computed from Table 7A and comparable Census data for rural/urban areas, 1970.

\*See Footnote, Table 1B.



1970

Figure 7A



1960

Figure 7B

## Commuting Area 8: Alcorn County

The decline in numbers of employed residents in Alcorn and Marshall Counties was more than offset by increases in the other counties, and the total resident labor force of the area increased by almost 11% from 1960 to 1970. Commuting from each county

increased over the decade (Table 8A), and the ratio of commuters to non-commuters in each county was larger in 1970 than in 1960 (Table 8B).

Alcorn County clearly had attained commuting-hub status by 1960, and the stature of the county as a commuting hub improved by 1970 (Figures 8A and 8B). Com-

muter exchanges within the area in 1970 were largely between adjoining counties, but the number of resident workers who commuted to jobs in Tennessee and Alabama and in other Mississippi counties was appreciably higher in 1970 than in 1960 (Figures 1A, 1B, 9A and 9B).

TABLE 8A. EMPLOYED RESIDENTS, TOTAL AND BY COMMUTING STATUS, AREA 8, (Alcorn County), BY COUNTY, MISSISSIPPI, 1970 AND 1960.

Commuting Status					
Counties	Number of Employed Residents *	Non- Commuters	Commuters		Unaccounted for/or Not Reported
			Destination Given	Destination Not Given	
1970					
Alcorn	9,793	8,807	527	174	1,005
Benton	2,251	1,316	618	32	285
Marshall	6,453	4,239	1,539	149	526
Prentiss	7,735	5,846	1,328	114	447
Tippah	5,747	4,378	696	65	608
Tishomingo	5,042	3,269	1,016	237	520
Union	6,982	5,248	1,138	130	466
1960					
Alcorn	10,335	7,738	446	78	2,073
Benton	2,222	1,645	415	32	130
Marshall	6,535	5,261	549	280	445
Prentiss	6,128	5,068	685	102	273
Tippah	5,244	4,714	270	121	138
Tishomingo	4,654	3,555	724	137	238
Union	6,008	4,881	603	363	161

Source: See Table 1A.

\*Based on the population 16 and over in 1970 and 14 and over in 1960.

TABLE 8B. COMMUTERS\* PER 100 NON-COMMUTERS AREA 8, (Alcorn County), BY COUNTY, MISSISSIPPI, 1970 AND 1960.

Counties	1970			1960 Total
	Total	Urban	Rural	
Alcorn	8.7	8.8	8.6	6.8
Benton	49.4	---	49.4	27.2
Marshall	39.8	5.2	60.9	15.8
Prentiss	24.7	12.0	31.7	15.5
Tippah	17.4	8.8	20.7	8.3
Tishomingo	38.3	---	38.3	24.2
Union	24.2	8.5	34.5	19.8

Source: Computed from Table 8A and comparable Census data for rural/urban areas, 1970.

\*See Footnote, Table 1B.

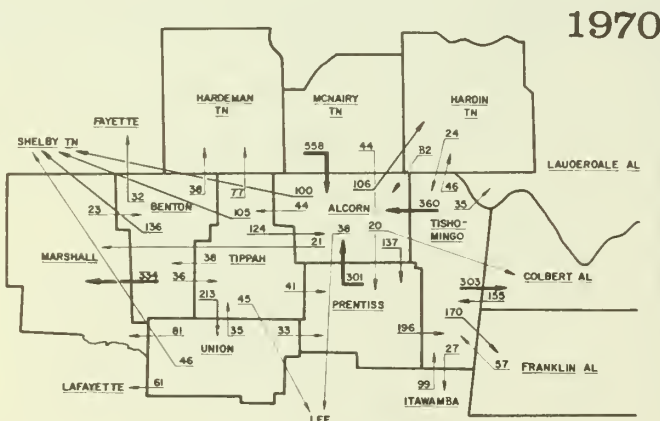


Figure 8A

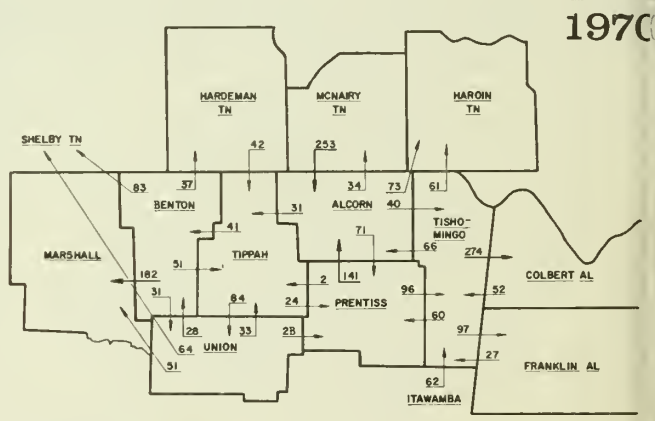


Figure 8B

## Commuting Area 9: Lee County

Numbers of employed residents and numbers of commuters increased in each county between 1960 and 1970 (Table 9A), and the number of commuters per 100 non-commuters increased in all coun-

ties except Lee (Table 9B). The economic dominance of Lee County had been well established by 1960, and notable gains were made by 1970. Commuting by residents of the area increased by more than 40% from 1960 to 1970, with commuting into Lee County from

adjoining Mississippi counties accounting for most of the increase (Figures 9A and 9B). Workers were exchanged in both years with Tennessee and Alabama and with Mississippi counties south and west of the area (Figures 3A, 3B, 8A, 8B, 10A and 10B).

TABLE 9A. EMPLOYED RESIDENTS, TOTAL AND BY COMMUTING STATUS, AREA 9, (Lee County), BY COUNTY, MISSISSIPPI, 1970 AND 1960.

Counties	Number of Employed Residents *	Commuting Status		Unaccounted for/or Not Reported
		Non-Commuters	Commuters	
			Destination Given Destination Not Given	
<b>1970</b>				
Chickasaw	5,274	4,603	721	320
Itawamba	6,424	3,745	2,106	408
Lee	18,713	16,144	877	1,415
Monroe	12,759	10,198	1,787	527
Pontotoc	6,033	3,851	1,828	297
Prentiss	7,735	5,846	1,328	447
Union	6,982	5,248	1,138	466
<b>1960</b>				
Chickasaw	5,678	4,922	370	316
Itawamba	5,533	3,857	1,391	228
Lee	14,980	13,362	750	497
Monroe	12,122	9,844	1,313	561
Pontotoc	5,225	3,880	992	204
Prentiss	6,128	5,068	685	273
Union	6,197	4,881	603	350

Source: See Table 1A.

\*Based on the population 16 and over in 1970 and 14 and over in 1960.

TABLE 9B. COMMUTERS\* PER 100 NON-COMMUTERS AREA 9, (Lee County), BY COUNTY, MISSISSIPPI, 1970 AND 1960.

Counties	1970			1960 Total
	Total	Urban	Rural	
Chickasaw	17.4	11.5	21.7	8.9
Itawamba	60.6	19.2	75.4	37.5
Lee	7.1	4.5	9.5	8.4
Monroe	19.9	8.2	30.3	17.4
Pontotoc	48.9	21.5	61.0	29.4
Prentiss	24.7	12.0	31.7	15.5
Union	24.2	8.5	34.5	19.8

Source: Computed from Table 9A and comparable Census data for rural/urban areas, 1970.

\*See Footnote, Table 1B.

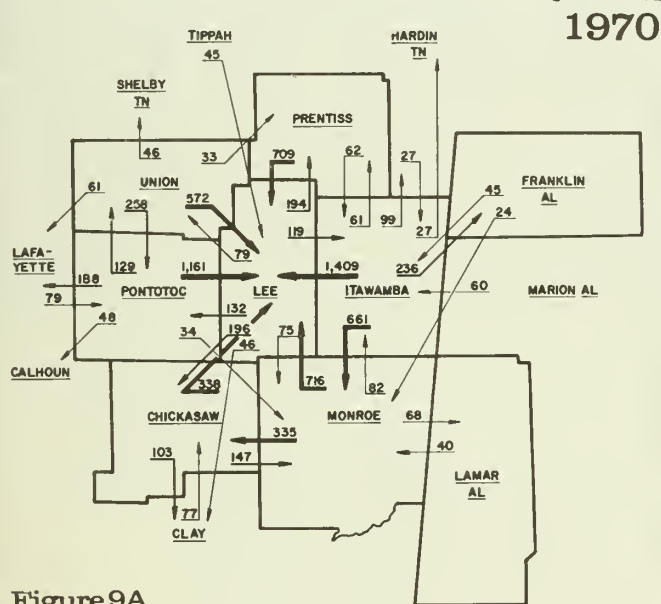


Figure 9A

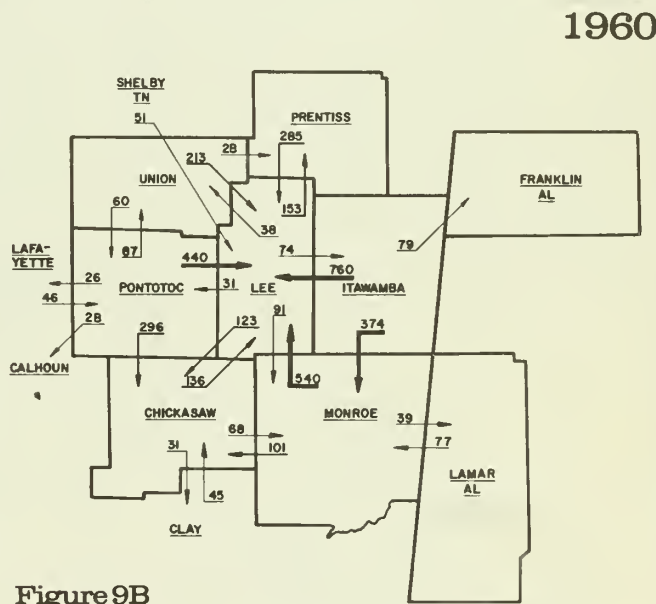


Figure 9B



## Commuting Area 10: Golden Triangle

Two counties (Clay and Oktibbeha) were Type I counties and the decreases in numbers of commuters per 100 non-commuters from 1960 to 1970 (Table 10B) were associated with decreases in total numbers of commuters (Table 10A). Increases in numbers of employed residents in the three Type II counties (Choctaw, Lowndes and Monroe) were accompanied by increases in numbers of commuters and in numbers of commuters per 100 non-

commuters. Numbers commuting from the three Type III counties (Noxubee, Webster and Winston) increased over the ten-year period, despite decreases in numbers of employed residents.

The relatively low ratio of commuters to non-commuters for Clay, Oktibbeha and Lowndes Counties indicate that all three were commuter hubs in 1970. Lowndes County's strongest commuter linkages were with Alabama in both years, but Lowndes also attracted the largest numbers of commuters from surrounding Mis-

issippi counties (Figures 10A and 10B). Commuter exchanges between Lowndes and Oktibbeha and between Lowndes and Clay became more nearly equal in 1970, and commuter streams from Oktibbeha, Monroe and Webster increased sufficiently to elevate Clay County to the status of a secondary commuter hub. Commuting patterns of the areas were linked weakly to Areas 3, 9 and 11 in both census periods (Figures 3A, 3B, 9A, 9B, 11A and 11B).

TABLE 10A. EMPLOYED RESIDENTS, TOTAL AND BY COMMUTING STATUS, AREA 10, (Golden Triangle), BY COUNTY, MISSISSIPPI, 1970 AND 1960.

Counties	Number of Employed Residents*	Commuting Status			Unaccounted for/or Not Reported
		Non- Commuters	Commuters		
			Destination Given	Destination Not Given	
1970					
Choctaw	2,515	1,524	785	45	161
Clay	6,331	5,348	412	117	454
Lowndes	19,008	16,576	487	353	3,539
Monroe	12,759	10,198	1,787	247	527
Noxubee	3,932	3,236	417	31	248
Oktibbeha	9,530	8,090	648	117	675
Webster	3,220	2,298	876	38	8
Winston	5,575	4,288	487	345	455
1960					
Choctaw	2,501	1,731	476	79	215
Clay	6,199	5,418	441	148	192
Lowndes	16,818	15,738	326	288	466
Monroe	12,122	9,844	1,313	404	561
Noxubee	4,796	4,121	257	162	256
Oktibbeha	8,304	7,167	462	388	337
Webster	3,264	2,658	440	83	83
Winston	5,635	4,915	424	129	167

Source: See Table 1A.

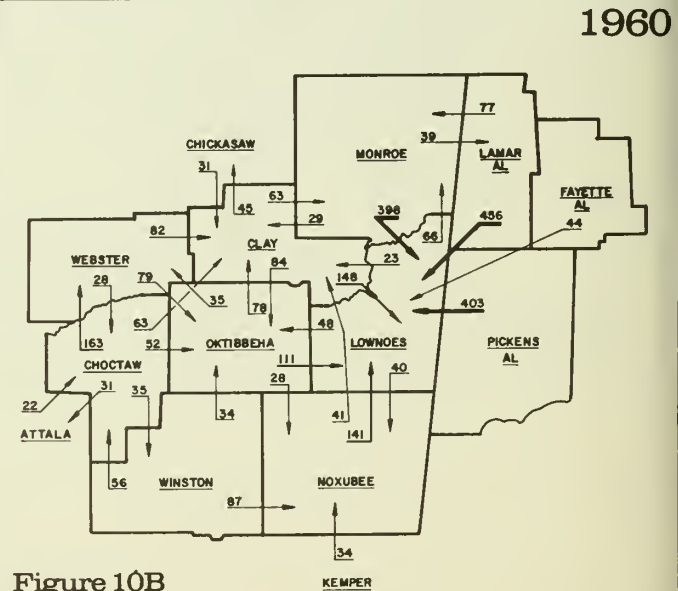
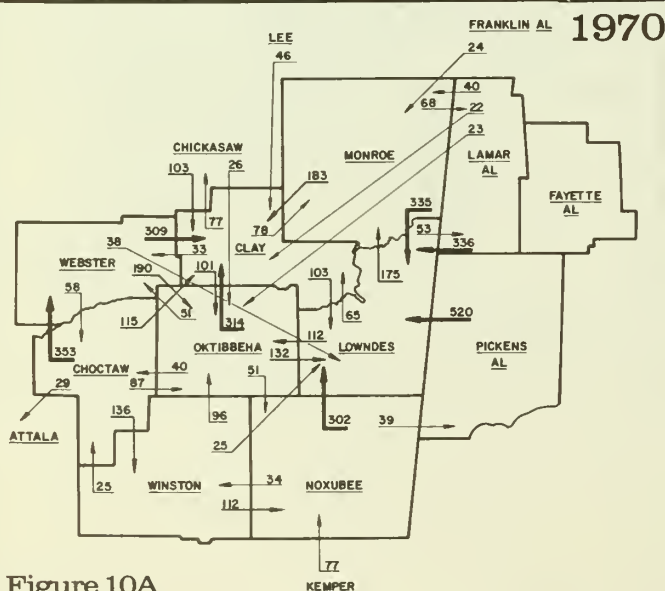
\*Based on the population 16 and over in 1970 and 14 and over in 1960

TABLE 10B. COMMUTERS\* PER 100 NON-COMMUTERS AREA 10, (Golden Triangle), BY COUNTY, MISSISSIPPI, 1970 AND 1960.

Counties	1970			1960 Total
	Total	Urban	Rural	
Choctaw	54.5	---	54.5	32.1
Clay	9.9	7.4	12.8	10.9
Lowndes	5.1	4.2	6.6	3.9
Monroe	19.9	8.2	30.3	17.4
Noxubee	13.8	7.1	16.6	10.2
Oktibbeha	9.5	7.9	11.9	11.2
Webster	39.8	---	39.8	19.7
Winston	19.4	21.2	18.0	11.3

Source: Computed from Table 10A and comparable Census data for rural/urban areas, 1970.

\*See Footnote, Table 1B.



## Commuting Area 11: Lauderdale County

Two counties (Lauderdale and Neshoba) were Type I counties and the decreases in numbers of commuters per 100 non-commuters from 1960 to 1970 (Table 11B) were associated with decreases in total numbers of commuters (Table 11A). Increases in numbers of employed residents in the five Type II counties (Clarke, Jasper, Leake, Newton and Scott) were accom-

panied by increases in numbers of commuters and in numbers of commuters per 100 non-commuters. Numbers commuting from the two Type III counties (Kemper and Winston) increased over the decade, despite decreases in numbers of employed residents, and these changes were associated with increases in numbers of commuters per 100 non-commuters.

Commuting into Lauderdale County from almost all other

counties in the area increased from 1960 to 1970, with the flows from Newton and Clarke Counties growing by 50 and 75%, respectively, and the flow from Kemper County doubling (Figures 11A and 11B). Numbers commuting from Lauderdale County to other counties in the area also increased. Several counties in the area had closer commuting ties with Mississippi counties outside the area (Figures 5A, 5B, 10A, 10B, 12A and 12B).

TABLE 11A. EMPLOYED RESIDENTS, TOTAL AND BY COMMUTING STATUS, AREA 11, (Lauderdale County), 8Y COUNTY, MISSISSIPPI, 1970 AND 1960.

Counties	Number of Employed Residents*	Commuting Status			Unaccounted for/or Not Reported
		Non- Commuters	Commuters		
			Destination Given	Destination Not Given	
<u>1970</u>					
Clarke	4,960	3,316	823	229	592
Jasper	4,622	2,368	1,419	116	719
Kemper	2,673	1,678	771	38	186
Lauderdale	25,121	21,794	475	484	2,368
Leake	5,402	3,726	999	104	573
Neshoba	7,120	5,644	957	125	394
Newton	6,599	4,937	1,164	126	372
Scott	7,032	5,313	783	171	765
Winston	5,575	4,288	487	345	455
<u>1960</u>					
Clarke	4,940	3,953	683	115	189
Jasper	4,569	3,349	872	144	204
Kemper	3,572	2,838	379	141	214
Lauderdale	23,921	21,719	788	717	697
Leake	5,206	4,062	688	208	248
Neshoba	6,748	5,150	1,035	247	316
Newton	6,343	5,184	734	187	238
Scott	6,559	5,656	548	140	315
Winston	5,635	4,915	424	129	167

Source: See Table 1A.

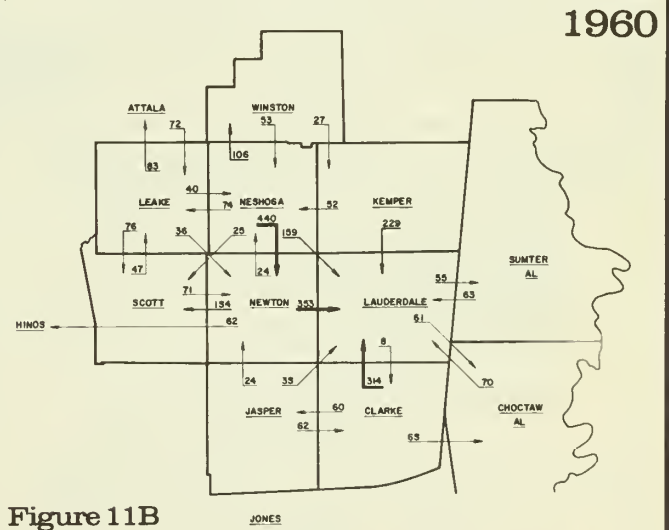
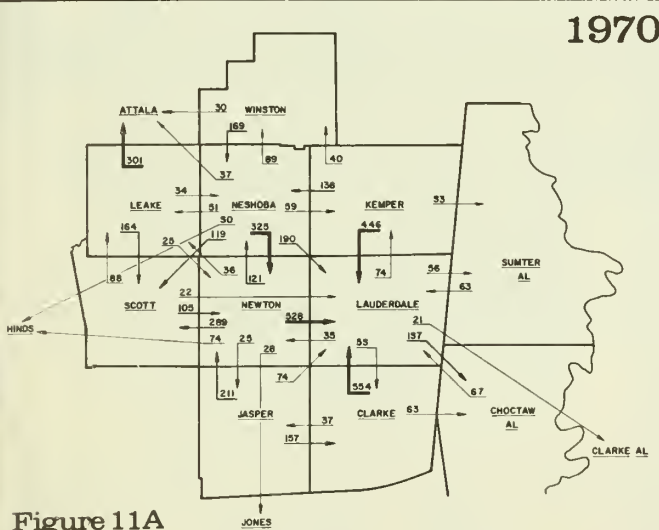
\*Based on the population 16 and over in 1970 and 14 and over in 1960.

TABLE 11B. COMMUTERS\* PER 100 NON-COMMUTERS AREA 11, (Lauderdale County), BY COUNTY, MISSISSIPPI, 1970 AND 1960.

Counties	Total	1970		1960 Total
		Urban	Rural	
Clarke	31.7	18.5	36.0	20.2
Jasper	64.8	---	64.8	30.3
Kemper	48.2	---	48.2	18.3
Lauderdale	4.4	3.9	5.5	6.9
Leake	29.6	10.3	37.1	22.1
Neshoba	19.2	6.7	27.2	24.9
Newton	26.1	8.5	32.2	17.8
Scott	18.0	10.4	23.3	12.2
Winston	19.4	21.6	18.0	11.3

Source: Computed from Table 11A and comparable Census data for rural/urban areas, 1970.

\*See Footnotes, Table 1B.



## Commuting Area 12: Forrest and Jones Counties

The decrease in numbers of commuters per 100 non-commuters in Forrest County (Type I) from 1960 to 1970 (Table 12B) was associated with a decrease in total numbers of commuters (Table 12A). Increases in the commuter to non-commuter ratio in two of the

Type II counties (Simpson and Wayne) and in Smith County (Type III) were accompanied by decreases in total numbers of commuters. Other counties in the area experienced increases in numbers of commuters per 100 non-commuters and in total numbers of commuters.

The exchange of commuters between the two commuting hub

counties (Forrest and Jones) increased between the two census dates (Figures 12A and 12B), with Forrest roughly holding a 2 to 1 exchange ratio in both years. Lamar County had the second highest commuter to non-commuter ratio in the state in 1970, indicating the extent to which the county is serving as a suburban

TABLE 12A. EMPLOYED RESIDENTS, TOTAL AND BY COMMUTING STATUS, AREA 12, (Forrest-Jones Counties), BY COUNTY, MISSISSIPPI, 1970 AND 1960.

Commuting Status					
Counties	Number of Employed Residents *	Non- Commuters	Commuters		Unaccounted for/or Not Reported
			Destination Given	Destination Not Given	
1970					
Clarke	4,960	3,316	823	229	592
Covington	4,405	2,794	996	180	435
Forrest	20,877	17,301	998	651	1,927
Greene	2,441	1,383	681	71	306
Jasper	4,622	2,368	1,419	116	719
Jefferson Davis	3,607	2,503	788	190	126
Jones	18,977	15,185	1,110	619	2,063
Lamar	4,697	2,339	1,771	187	400
Marion	6,917	5,137	459	413	908
Perry	2,846	1,470	813	116	444
Simpson	6,607	4,321	1,143	122	1,021
Smith	4,576	2,567	801	134	1,074
Wayne	4,972	2,988	553	131	1,300
1960					
Clarke	4,940	3,953	683	115	189
Covington	4,057	3,095	685	147	130
Forrest	18,201	15,826	1,134	705	534
Greene	2,083	1,306	541	143	91
Jasper	4,569	3,349	872	144	204
Jefferson Davis	3,617	2,951	482	64	120
Jones	18,237	16,265	736	640	596
Lamar	4,146	2,781	1,084	139	142
Marion	7,236	6,144	642	207	243
Perry	2,738	1,904	629	84	121
Simpson	6,361	4,701	1,104	201	155
Smith	5,217	4,141	850	114	112
Wayne	4,347	3,490	635	102	120

Source: See Table 1A.

\*Based on population 16 and over in 1970 and 14 and over in 1960.

TABLE 12B. COMMUTERS \* PER 100 NON-COMMUTERS AREA 12, (Forrest-Jones Counties), BY COUNTY, MISSISSIPPI, 1970 AND 1960.

Counties	1970			1960 Total
	Total	Urban	Rural	
Clarke	31.7	18.5	36.0	20.2
Covington	42.1	---	42.1	26.9
Forrest	9.5	9.0	12.0	11.6
Greene	54.4	---	54.4	52.3
Jasper	64.8	---	64.8	30.3
Jefferson Davis	39.1	---	39.1	18.5
Jones	11.4	6.4	17.0	8.5
Lamar	83.5	466.6	79.6	44.0
Marion	17.0	13.4	19.3	13.8
Perry	63.4	---	63.4	37.4
Simpson	29.3	25.1	29.8	27.8
Smith	36.4	---	36.4	23.3
Wayne	22.9	3.8	32.1	21.1

Source: Computed from Table 12A and comparable Census data for rural/urban areas, 1970.

\*See Footnote, Table 1B.

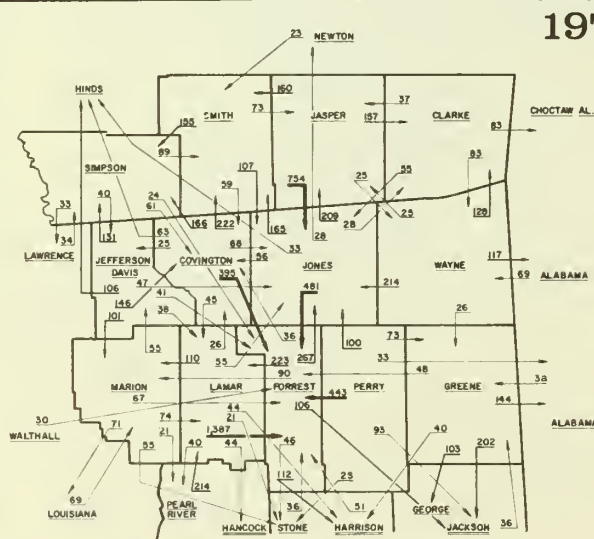


Figure 12A

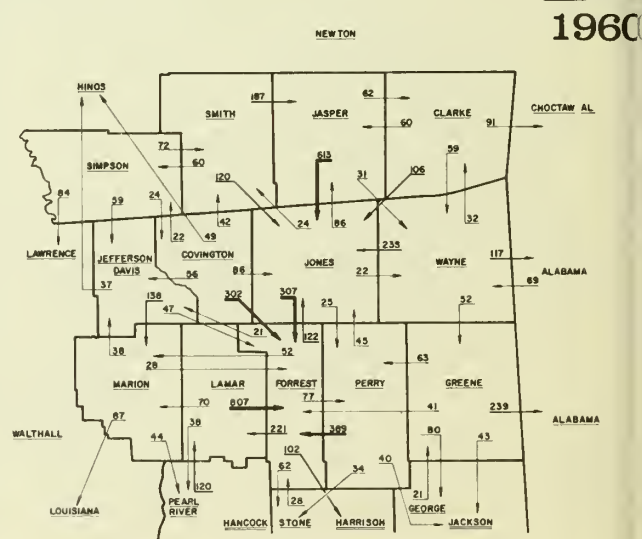


Figure 12B



expansion from Forrest County.

Aside from the increase in total numbers of commuters from 1960 to 1970, the commuting pattern within the area was similar in both years. Many counties in the periphery of the area maintained commuter linkages with Mississippi counties in other areas, primarily the linkage of Clarke County with Lauderdale County (Figures 11A and 11B), Greene and Marion Counties with the coastal counties (Figures 13A and 13B) and Marion County with Area 7 (Figures 7A and 7B). New commuter streams from Harrison County to Forrest County and from Louisiana to Marion County developed over the decade.

**Commuting Area 13:  
Biloxi-Gulfport and  
Pascagoula-Moss Point SMSAs**

All counties in the area experienced increases in numbers of resident workers, in numbers of non-commuters and in numbers of commuters (Table 13A), but the ratio of commuters to non-commuters in 1970 still was higher than in 1960 for all counties except Hancock (Table 13B). Jackson and Harrison Counties (Type II) are major commuting hubs and Hancock County (Type I and a "growing hub") is developing the characteristics of a commuting hub.

The area demonstrates more than any of the other designated

areas the extent to which inter-county commuting can mushroom in all directions in an industrially developing area (Figures 13A and 13B). Numbers of workers crossing at least one county line to reach their place of work almost doubled from 1960 to 1970, and workers traveling to jobs from outside the six-county area increased from 15% of the total commuting stream in 1960 to 30% in 1970. Commuting from the area to Alabama and Louisiana decreased over the decade, while commuting from these states into the area increased. Commuting into the area from other Mississippi counties (Figures 12A and 12B) also increased appreciably over the decade.

TABLE 13A. EMPLOYED RESIDENTS, TOTAL AND BY COMMUTING STATUS, AREA 13, (Biloxi, Gulfport and Pascagoula-Moss Point SMSAs), BY COUNTY, MISSISSIPPI, 1970 AND 1960.

Counties	Number of Employed * Residents	Commuting Status			Unaccounted for/or Not Reported
		Non- <u>Commuters</u>	<u>Commuters</u>		
		Destination Given	Destination Not Given		
<u>1970</u>					
George	3,827	2,184	1,191	109	343
Hancock	5,525	3,506	1,255	192	572
Harrison	53,357	45,620	2,209	658	4,870
Jackson	30,832	23,554	3,594	456	3,228
Pearl River	9,015	5,754	2,519	198	544
Stone	2,832	1,815	653	15	349
<u>1960</u>					
George	3,192	2,141	793	21	237
Hancock	4,022	2,500	999	99	424
Harrison	45,443	41,376	1,024	372	2,671
Jackson	18,264	14,970	1,914	150	1,230
Pearl River	6,883	5,401	925	161	396
Stone	2,100	1,523	402	43	132

Source: See Table 1A.

\*Based on the population aged 16 and over in 1970 and 14 and over in 1960.

TABLE 13B. COMMUTERS\* PER 100 NON-COMMUTERS AREA 13, (Biloxi-Gulfport and Pascagoula-Moss Point, SMSAs), BY COUNTY, MISSISSIPPI, 1970 AND 1960.

Counties	Total	1970		1960 Total
		Urban	Rural	
George	59.5	---	59.5	38.0
Hancock	41.3	28.4	68.5	43.9
Harrison	6.3	5.9	8.5	3.4
Jackson	17.2	15.5	22.1	13.8
Pearl River	47.2	44.1	49.3	20.1
Stone	36.8	20.5	49.2	29.2

Source: Computed from Table 13A and comparable Census data for rural/urban areas, 1970.

\*See Footnote, Table 1B.

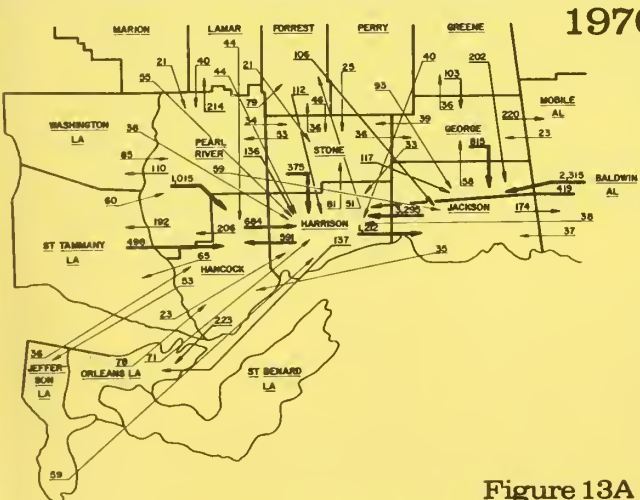


Figure 13A

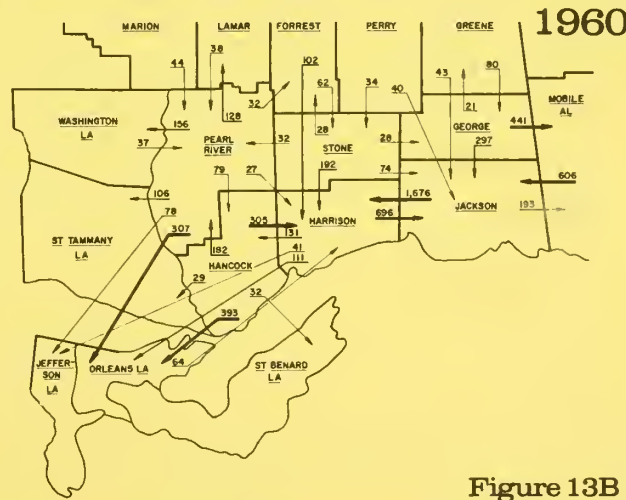


Figure 13B



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