The Economic Benefits of the Governor's Road Improvement Program (GRIP)

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Executive Summary:

A Study of the Economic Benefits of the Governor's Road Improvement Program (GRIP)

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This summary highlights of some of the findings regarding the economic benefits of the Governor's Road Improvement Program (GRIP). The chapters that follow this summary contain the comprehensive technical report.

Description of Phase I: Secondary Data Analysis

Phase I of the 2003 GRIP Analysis updates the data and analysis presented in the 1997 GRIP Analysis Study to determine whether or not location on a major multi-lane highway fosters economic growth. The relative economic status and performance of four mutually exclusive groups of rural counties were investigated. To ensure that the analysis was not biased by the selection of a particular subset of counties, all of Georgia's rural counties were assigned to one of the following groups.

- (1) GRIP Counties: Non-metropolitan counties and non-Interstate counties that contain either a portion of a completed GRIP corridor or a finished section of an incomplete GRIP corridor that feeds into a finished GRIP corridor or to an Interstate.
- (2) Non-GRIP Counties: Non-metropolitan counties and non-Interstate counties with no GRIP corridor or ones with a completed portion of a corridor that does not connect to either a finished corridor or to an Interstate.
- (3) GRIP Rural Interstate Counties: Non-metropolitan counties with one or more interchanges on an Interstate that contain either a portion of a completed GRIP corridor or a finished section of an incomplete one that ultimately feeds to an existing GRIP corridor or to an Interstate.
- (4) Non-GRIP Rural Interstate Counties: Non-metropolitan counties with one or more interchanges on an Interstate that either lack a GRIP corridor or contain a finished portion of one that does not connect to an existing corridor or to an Interstate.

The analysis evaluates the performance of these groups of counties by calculating and comparing the 1990-to-2000 percentage changes in the groups' population, total personal income, labor force, employment, and unemployment. The 1990-to-2000 change in the unemployment rate also is estimated. The percentage changes for GRIP counties were compared to those for non-GRIP counties. In order to better account for regional differences in development patterns, separate analyses were conducted for North Georgia (Service Delivery Regions 1 and 2), Middle Georgia (Service Delivery Regions 3, 4, 5, and 6), and South Georgia (Service Delivery Regions 8, 9, 10, 11, and 12). Similarly, percentage changes for GRIP rural interstate counties were compared to those for non-GRIP rural interstate counties, but separate regional analyses were not conducted.

Major Findings of Phase I Analysis

Executive Summary Tables 1 and 2 show that the 1990-2000 percentage changes in selected series of demographic and economic data varied considerably by county group and by region. The major findings of Phase I Analysis indicate that:

- In South Georgia, GRIP counties-as a group-experienced larger percentage increases in every measure of economic performance (personal income, employment, and labor force) than non-GRIP counties. Also, both the number of unemployed persons and the unemployment rate dropped more sharply for the GRIP group than for the non-GRIP group.
- In Middle Georgia, GRIP counties-as a group-experienced larger percentage increases in employment and labor force than the non-GRIP group, but this was not the case for total personal income. The number of unemployed persons and the unemployment rate did not drop more for the GRIP group than for the non-GRIP group.
- In North Georgia, GRIP counties—as a group—did not experience larger percentage changes in personal income, employment, or labor force. Nonetheless, the number of unemployed persons and the unemployment rate dropped more sharply for the GRIP group than for the non-GRIP group.
- GRIP counties did not experience larger percentage changes in population in any region of the state.
- GRIP rural interstate counties—as a group—experienced larger percentage changes in employment and labor force than the comparison group of non-GRIP rural interstate counties. The GRIP rural interstate group did not experience a larger percentage increase in total personal income or population, however. Also, the number of unemployed persons and the unemployment rate did not drop more for the GRIP rural interstate group than for the non-GRIP rural interstate group.

The major implications of Phase I Analysis include:

- Simple comparisons among groups of similar counties provide varying degrees of evidence of a linkage between the GRIP program and rural economic development.
- There is strong evidence that GRIP facilitates economic development in rural South Georgia.
- There is reasonable evidence that GRIP facilitates economic development– particularly employment growth–in rural Middle Georgia.
- There is slight evidence that GRIP facilitates economic development in rural North Georgia.

- There is reasonable evidence that GRIP facilitates economic development– particularly employment growth--in rural counties on Interstates because GRIP may allow the advantages of an Interstate to penetrate more deeply into the host county.
- There is no evidence that GRIP facilitates population growth.
- Over 71 percent of rural Georgians live in the areas–South Georgia or rural interstate–that benefit the most from the GRIP system.
- The economic benefits of GRIP appear to be going to precisely those rural Tier 1 and Tier 2 counties that most need to stimulate economic growth and development.
- Four prior studies conducted in the 1980s and 1990s provide evidence of a linkage between developmental highways—such as the GRIP corridors—and economic growth.

Description of Phase II: Short-Term Economic Impacts of Representative GRIP Road Construction Projects

Phase II of the 2003 GRIP Analysis estimated the short-term economic impacts of spending by the Georgia Department of Transportation on GRIP road construction projects. In consultation with them, three representative GRIP projects were selected for analysis:

- Wayne County Project Description: SR 27/US 341 from US 25 to one mile west of CR 394, four lanes with a 44-foot median, widening from two to four lanes.
- Stewart County Project Description: US 27 from branch at MP 10.47 to SR 1 at CR 43 (on partially new location), four lanes with a 44-foot median, new construction roadway project.
- Wilkinson County Project Description: SR 29/US 441 from Irwinton Bypass to N. CR 182 near McIntyre, four lanes with a 44-foot median, widening from two to four lanes.

The costs of engineering, rights-of-way, and construction were provided by the Georgia Department of Transportation. Expenditures were reduced to reflect amounts that were not spent in the county (e.g., payment to engineers who do not live or work in the local area). For analytical purposes, all dollar amounts were converted to inflation-adjusted 1999 dollars, and unless otherwise indicated, the amounts shown in this report are expressed in 1999 dollars.

The IMPLAN (Impact Analyses and Planning) Professional Version 2.0.1020 modeling system was used to build detailed regional input-output models of Wayne, Stewart, and Wilkinson counties. The county-specific models were used to quantify the economic impact of road constructing expenditures on each county's economy.

The impacts were estimated in terms of output (gross receipts or sales), value added (or regional product), labor income, and employment. Output impacts, which are the most inclusive, largest, measure of economic impact, encompass both initial spending

and the impacts generated by re-spending of these amounts. Because of their size, output impacts typically are emphasized in economic impact studies and receive much media attention.

In addition to the total economic impacts of project expenditures, impacts per dollar of spending were estimated for output, value added, and labor income. Also, the number of jobs created per million dollars of expenditures was estimated.

Major Findings of Phase II Analysis

Executive Summary Tables 3, 4, 5, and 6 show the economic impacts of expenditures associated with GRIP road construction projects in Wayne, Stewart, and Wilkinson counties. The major findings of Phase II Analysis are:

- Wilkinson County: Local outlays of \$23 million produced a total output impact of \$27.9 million, a value-added impact of \$11.7 million, and a labor income impact of \$7.6 million. The employment impact was 281 jobs. Considering that the county's total employment was 4,399 in 2000, expenditures by the Georgia Department of Transportation for the GRIP road construction project provided a significant short-term boost to the local economy.
- Stewart County: Local outlays of \$12.3 million produced a total output impact of \$14.2 million, a value-added impact of \$5.8 million, and a labor income impact of \$3.7 million. The employment impact was 146 jobs. Considering that the county's total employment was 2,258 in 2000, expenditures by the Georgia Department of Transportation for the GRIP road construction project provided a significant short-term boost to the local economy.
- Wayne County: Local outlays of \$10.5 million produced a total output impact of \$13.3 million, a value-added impact of \$5.6 million, a labor income impact of \$3.9 million, and an employment impact of 143 jobs.
- The output impact per dollar spent locally varied from \$1.26 in Wayne County to \$1.15 in Stewart County. Similarly, value-added impacts per dollar spent locally varied from 53 cents in Wayne County to 47 cents in Stewart County. Labor income impacts per dollar spent locally varied from 37 cents in Wayne County to 30 cents in Stewart County.
- The jobs created per million dollars in spending varied from 13.6 jobs in Wayne County to 11.9 jobs in Stewart County.

The major implications of Phase II Analysis show that:

- Local outlays for GRIP projects generate positive benefits for rural counties in terms of output, value added, labor income, and employment.
- The short-term economic impacts of spending by the Georgia Department of Transportation for GRIP road construction projects can be very significant in rural counties where the overall economic base is small.

- Output impacts exceed initial outlays, but the multiplier effects are relatively small. The low multiplier values reflect the rapid leakage of dollars from the local economy to other areas.
- The Phase II impact amounts capture only the short-term impacts of outlays by the Georgia Department of Transportation for road construction and do not include any of the benefits of the road improvements on the area's economic development or quality of life. The actual impact therefore is much higher than these estimates.

Description of Phase III: Illustrative Case Studies

Phase III consists of illustrative case studies of four GRIP corridors – US 441, the Fall Line Freeway, US 19, and the South Georgia Parkway–to provide anecdotal evidence of the program's development benefits and potential. The commentary and opinions, however, sometimes are augmented with references to readily available data.

Major Findings of Phase III Analysis

US 441 Corridor

The US 441 corridor begins in North Carolina, traverses the length of South Carolina and Georgia, and terminates in Florida. The 371-miles long Georgia portion of US 441 passes through sixteen rural and two metropolitan counties, and is the state's longest GRIP corridor. Approximately 47 percent of the corridor is four-laned and is open to traffic. Although this route is predominately rural, it is very well traveled because it connects some major towns, including Athens, Douglas, Dublin, and Milledgeville. More-over, the economic development benefits and potential of US 441 are substantial and varied.

- Manufacturers operating in rural areas as well as professionals involved in selecting sites for new plants consistently emphasize the importance of easy access to four-lane highways.
- Multi-lane highways reduce costs of production and distribution, especially as manufacturers increase their use of just-in-time production practices.
- In 2000, manufacturers located within a six-mile radius of rural portions of US 441 employed over 25,000 people. According to the US 441 Development Council, there are over 500 manufacturers and over 50,000 manufacturing jobs in the 44-county region surrounding the corridor.
- Industrial parks are sited along US 441, because the highway allows large trucks to access the plants, and makes it easy for employees to commute to and from work.
- Georgia's manufactured housing industry depends on US 441 to transport its raw materials and parts to the plants and its finished units to market.

- Agriculture, mining, and forestry rely heavily on it. Timber is a major industry in the counties that surround the US 441 corridor.
- US 441 provides tremendous impetus to retail-based economic development. The most compelling example is the Tanger Factory Outlet Center and Craven Pottery complex located at the US 441 and I-85 interchange.
- The four-laning of US 441 to the South Georgia Parkway made it possible for Douglas to attract and retain its largest employer – a massive Wal-Mart distribution center. When 441 is four laned to the Florida line, Douglas should benefit from improved access to the Orlando market area and to I-10, which will help the community to further solidify its role as a distribution center.
- The four-laning of US 441 to the South Georgia Parkway put Douglas within easy reach of the Port of Brunswick and the I-95 corridor, both of which local business and government leaders consider vital to the future growth of South Georgia. The upgrade also provided an excellent connection to Jacksonville, Florida.
- The US 441 Heritage Highway Inc. actively and aggressively promotes tourism along the highway, touting it as a more pleasant alternative to frequently congested north-south interstates.
- The construction of new bypasses around many of the historic towns help to preserve the rural and historic character of the road, further enhancing the prospects for cultural tourism along its path.
- Four laning the entire corridor will improve visitors' perceptions about the accessibility of the attractions along the corridor, stimulating additional trips. Also, attractions on major multi-lane highways probably are more likely to be included as stops on bus tours than are similar attractions located on two-lane highways.
- In Clayton, Clarkesville, Athens, Madison, Milledgeville, Dublin, Douglas, and other communities, US 441 brings travelers through or close to many historic squares and districts.
- There are many opportunities to shop for antiques and crafts, especially in Dillard, Clayton, Clarkesville, Madison, and Douglas.

Fall Line Freeway

The Fall Line Freeway will link Augusta, Macon, and Columbus, and become a major east-west connector through 215 miles of central Georgia. Approximately 78 percent of the highway is open to traffic now. Although a primary function of the Fall Line Freeway will be to provide a high capacity and relatively direct link between three of the state's major cities, the four-lane corridor also will vastly improve access to and from scores of communities located in the seven rural counties through which it passes. The economic development benefits and potential of the freeway therefore will flow to both major metropolitan areas and scores of rural communities in Middle Georgia.

• Columbus area businesses will benefit from much improved access to I-16 and to the Port of Savannah.

- Productive ties will be more likely to develop between business located in Columbus, Macon, and Savannah.
- Macon's central location is ideal for hosting statewide meetings or conventions, and more direct routes to Augusta and Columbus definitely will enhance this advantage.
- The freeway will make Macon an even better location from which to deliver government operations to clients located throughout Georgia. It will enhance the metropolitan areas role as a regional distribution center.
- Shorter commute times from outlying areas will allow employers located in Augusta, Columbus, and Macon to capitalize on locally available labor.
- The Macon Chamber of Commerce believes that the Fall Line Freeway will improve prospects for the Downtown Industrial District and reduce truck traffic at the intersection of I-16 and I-75.
- The freeway will connect three major military bases in Columbus, Macon, and Augusta, via I-16 or the Savannah River Parkway, to the Port of Savannah.
- The Fall Line Freeway will make the region much more accessible to tourists, enhancing the prospects for tourism-based economic development.
- Agriculture, agricultural support businesses, and the kaolin industry will benefit from both the wider roads and from more direct routes to the interstates, ports, and metropolitan areas.
- The freeway will make a broad swath of middle Georgia more attractive to industry, especially where it intersects other GRIP corridors.
- The freeway will reduce both the time and hassle associated with commuting from rural counties that lie just outside of the Columbus, Macon, and Augusta metropolitan areas, spurring residential and retail development in these counties.
- In 2000, manufacturers located within a six-mile radius of rural portions of the Fall Line Freeway employed 4,535 people.

The US 19 Corridor

The GRIP portion of the US 19 corridor extends from Griffin in the southern portion of the Atlanta metropolitan area, and continues south through Thomaston, Butler, Americus, Albany, Camilla, and Thomasville before it crosses the Florida state line. Upgrading the highway from two to four lanes is considered vital to the economic development of the predominately rural region through which the corridor passes. Approximately 72 percent of the 194-miles long highway has been upgraded to four lanes and is open to traffic. This corridor is important particularly because:

• It makes it easier for rural counties at the northern end of the corridor to tap into the economic development potential of metropolitan Atlanta in general and specifically that of Hartsfield International Airport. Similarly, US 19 will help Southwest Georgia to benefit more fully from fast-paced growth in northern Florida, particularly the growth of the Tallahassee metropolitan area. The US 19 corridor serves as a multi-lane connection between Thomasville and I-10, which lies just south of the Georgia-Florida state line.

- Four laning US 19 reduces the time and hassle associated with commuting from rural counties that are close to the Atlanta, Albany, and Tallahassee metropolitan areas, spurring residential and retail development in rural Georgia.
- The completion of this multi-lane corridor will help Albany to solidify its role as Southwest Georgia's major trade, services health care, and industrial center.
- The highway improvements will improve the efficiency of the Marine Corps Logistics facility in Albany, which helps to ensure its survival and enhances its prospects for expansion.
- In 2002, the highway's presence helped Thomasville become the site for American Signature Furniture's regional distribution center.
- The improved highway will help the region retain its existing manufacturing base and attract new manufacturers. In 2000, manufacturers located within a six-mile radius of rural portions of US 19 employed over 15,000 people.
- US 19 will help Thomasville develop as a center for Georgia's emerging biotechnology industry.
- The four-lane highway is vital to the economic well being of the region's large agriculture, lumber, wood, pulp, and forest products industries.
- Because the highway is viewed as a more leisurely north-south alternative to I-75, upgrades to US 19 will increase the flow of traffic through the area and improve access to the region's tourist destinations, enhancing the prospects for tourism-based economic development.
- The highway will further Thomasville's development as a retirement center, particularly with respect to attracting retirees back to Georgia from Florida.

The South Georgia Parkway

The South Georgia Parkway (US 82 and GA 520) is a completed GRIP corridor that passes through fifteen mostly rural counties in South Georgia. The major cities along the multi-lane corridor are Brunswick, Waycross, Tifton, Albany, and Columbus. This strategic corridor stimulates the economic development of the southern third of the state.

- The South Georgia Parkway connects the region to the state's major ports, to the barge terminal in Columbus, and to major north-south interstates, making a wealth of transportation infrastructure accessible to Albany, Columbus, and many other South Georgia communities.
- The highway provides access to the East Coast's largest switching rail yard in Waycross. Also, the corridor puts the Port of Jacksonville within easy reach of shippers in South Georgia.
- In 2000, manufacturers located within a six-mile radius of rural portions of the South Georgia Parkway employed nearly 7,000 people.
- The region's large manufactured housing industry depends on the Parkway as well as other high-capacity roads to transport its raw materials to the plants and to take its finished products to market.

- The four-lane highway allows employees who live in outlying areas to commute to jobs in the region's cities more easily. It also provides rural residents with better access to shopping, health care, recreation, cultural activities, and schools.
- The corridor is vital to the continued success of the regions important timber, agriculture, and food processing industries, because it helps to keep production and shipping costs low.
- The Parkway advances Georgia's development as a major distribution and transportation hub.
- It provides Waycross and other communities with better access to rapidly growing markets in northern Florida (e.g., Jacksonville). The highway therefore increases the potential for development based on distribution centers, manufacturing, and tourism.
- The Parkway provides access to the region's tourist destinations, enhancing the prospects for tourism-based economic development.
- The corridor provides access to the Coastal Plain Experiment Station, the Georgia Agrirama, and the Coastal Plain Research Arboretum in Tifton. By developing ways to improve crop growth, these facilities help to bring new business to rural areas of the state.

Implications of Phase III Analysis

The anecdotal evidence of the GRIP program's economic development benefits and potential is extensive and varied.

- Easy access to four-lane highways or interstates is vital to manufacturers, and it is an important factor considered by professionals involved in selecting sites for new plants. Georgia's manufactured housing, mining, forestry, and agricultural industries depend on excellent highways to transport their products to processors and consumers.
- Multi-lane highways make it easy for employees to commute to and from work.
- Multi-lane highways stimulate retail-based economic development, ranging from massive agglomerations of outlet stores at major interchanges, to national chain stores, to antique shops and craft stores.
- Multi-lane highways stimulate tourism-based economic development by
 providing a more pleasant alternative to busy and frequently congested northsouth interstates. New bypasses around many historic towns, which help to
 preserve the rural and historic character of the corridor, enhance the prospects for
 cultural tourism. Multi-lane highways improve visitors' perceptions about the
 accessibility of the state's most important natural and recreational sites.
- Multi-lane highways enhance the prospects for developing productive synergies between businesses located in various cities traversed by the corridors.
- Multi-lane highways improve access to major statewide infrastructure investments, such as the ports in Savannah or Brunswick, rail hubs, or major airports.
- Multi-lane highways improve access to Georgia's major military bases, enhancing both their productivity and prospects for survival.

- Multi-lane highways make it easier for rural areas to tap into the economic development potential of major urban areas located in Georgia as well as in neighboring states.
- Multi-lane highways advance Georgia's development as a major distribution and transportation hub.

Figure 1-1

GRIP Study Areas:

North, Middle, and South Georgia



Note: North Georgia consists of Georgia's Service Delivery Regions 1 and 2. Middle Georgia consists of Georgia's Service Delivery Regions 3, 4, 5, 6, and 7. South Georgia consists of Georgia's Service Delivery Regions 8, 9, 10, 11, and 12.



Figure 1-2 GRIP Study County Classification Scheme: GRIP, Non-GRIP, Rural Interstate, and Metropolitan





GRIP Study Rural Interstate Counties



Note: GRIP Rural Interstate refers to non-metropolitan counties with one or more interchanges on an Interstate that contain either a portion of a completed GRIP corridor or a portion of an incomplete GRIP corridor that provides access to a completed GRIP corridor or to an Interstate. Non-GRIP Rural Interstate refers to non-metropolitan counties with one or more interchanges on an Intersate that either do not contain a completed portion of a GRIP corridor or contain a completed portion of a corridor that does not provide access to either a completed corridor or to an Interstate.







Note: GRIP counties are non-metropolitan and non-Interstate counties that contain either a portion of a completed GRIP corridor or a portion of an incomplete GRIP corridor that provides access to a completed GRIP corridor or to an Interstate.

Executive Summary Table 1 Percentage Change, 1990-2000

Area	Census Population (% change)	Total Personal Income <u>(% change)</u>	Labor Force <u>(% change)</u>	Employment (% change)	Unemploy- ment <u>(% change)</u>
Georgia	26.4	98.2	26.4	28.9	-15.2
North ¹	26.6	88.5	20.4	25.4	-44.1
GRIP	20.9	78.5	9.7	14.6	-48.5
Non-GRIP	38.1	110.1	41.2	46.1	-33.2
Middle ¹	17.9	70.1	9.6	10.4	-1.8
GRIP	9.5	67.5	10.4	11.0	1.6
Non-GRIP	14.1	71.3	9.3	10.1	-3.4
South ¹	13.0	70.8	15.6	16.7	-4.0
GRIP	13.0	71.1	15.6	17.0	-7.4
Non-GRIP	13.0	70.1	15.0	15.2	13.5
Rural Interstate	21.6	85.6	24.3	26.9	-15.7
GRIP	18.6	83.6	26.1	28.0	-6.7
Non-GRIP	23.5	86.9	23.2	26.2	-20.3
Metropolitan	30.2	104.5	31.7	34.4	-16.8

¹Statistics do not include rural interstate and metropolitan counties.

Source: Selig Center for Economic Growth, Terry College of Business, University of Georgia, based on data obtained from the U.S. Census Bureau, the U.S. Bureau of Economic Analysis, and the Georgia Department of Labor.

Executive Summary Table 2 Unemployment Rate, 1990 and 2000

Area	Unemployment Rate	Unemployment Rate	Change in Rate
	in 1990	in 2000	<u>1990 to 2000</u>
Georgia	5.8	3.8	-2.0
North ¹	7.8	3.5	-4.3
GRIP	8.4	3.8	-4.6
Non-GRIP	6.6	3.0	-3.6
Middle ¹	6.9	6.1	-0.8
GRIP	7.1	6.5	-0.6
Non-GRIP	6.8	6.0	-0.8
South ¹	6.1	5.0	-1.1
GRIP	5.9	4.7	-1.2
Non-GRIP	7.4	7.3	-0.1
Rural Interstate	6.5	4.3	-2.2
GRIP	5.9	4.3	-1.6
Non-GRIP	6.8	4.3	-2.5
Metropolitan	5.4	3.4	-2.1

¹Statistics do not include rural interstate and metropolitan counties.

Source: Selig Center for Economic Growth, Terry College of Business, University of Georgia, based on data obtained from the Georgia Department of Labor.

Figure 2-1

Location of Three Representative GRIP Road Construction Projects



Source: Selig Center for Economic Growth, Terry College of Business, The University of Georgia.

Executive Summary Table 3 Total Economic Impact on Output of Representative GRIP Projects^{1,2}

Area/Project Expense Category	Local Outlays (\$ 1999)	Indirect and Induced Impact <u>(\$ 1999)</u>	Total Output Impact <u>(\$ 1999)</u>
Wilkinson County Project ID: 221760	23,029,105	4,887,956	27,917,058
Engineering Right-of-Way Construction	80,786 3,759,694 19,188,625	18,209 699,445 4,170,302	98,995 4,459,139 23,358,924
Stewart County Project ID: 322140	12,295,282	1,904,338	14,169,619
Engineering Right-of-Way Construction	0 2,037,031 10,258,251	0 255,183 1,649,155	0 2,262,214 11,907,405
Wayne County Project ID: 522430	10,539,004	2,768,170	13,307,173
Engineering Right-of-Way Construction	38,521 1,129,130 9,371,353	13,845 285,089 2,469,236	52,366 1,414,218 11,840,589

¹ The impacts on output are estimated using the IMPLAN system, Version 2.0.1020 and Type SAM multipliers.

² Output refers to the value of total production, including domestic and foreign trade.

Executive Summary Table 4 Total Economic Impact on Value-Added^{1,2,3,4} Labor Income, and Employment of Representative GRIP Projects

Area/Project Expense/Category	Local Outlays (<u>\$1999)</u>	Economic Impact on Value Added <u>(\$ 1999)</u>	Economic Impact on Labor Income <u>(\$ 1999)</u>	
Wilkinson County Project ID: 221760	23,029,105	11,657,050	7,595,231	280.9
Engineering Right-of-Way Construction	80,786 3,759,694 19,188,625	37,032 3,005,960 8,614,058	31,758 715,309 6,848,164	1.4 30.8 248.7
Stewart County Project ID: 322140	12,295,282	5,785,996	3,659,898	146.0
Engineering Right-of-Way Construction	0 2,037,031 10,258,251	0 1,586,321 4,199,675	0 347,198 3,312,700	0.0 15.3 130.7
Wayne County Project ID: 522430	10,539,004	5,629,493	3,873,027	143.4
Engineering Right-of-Way Construction	38,521 1,129,130 9,371,353	19,904 954,483 4,655,106	16,478 242,090 3,614,459	0.8 12.4 130.2

¹ The impacts on value-added, labor income, and employment are estimated using the IMPLAN System, Version 2.0.1020 and Type SAM multipliers.

² Value added includes employee compensation, proprietary income, and other property income, and indirect business taxes.

- ³ Labor Income includes payroll costs of workers who are paid employees and payments received by self-employed individuals.
- ⁴ Employment includes full-time and part-time jobs.

Executive Summary Table 5 Output, Value Added, and Labor Income Per Dollar Spent for Representative GRIP Projects

Area/Project Expense Category	Output Impact per Dollar Spent <u>(\$ 1999)</u>	Value Added per Dollar Spent <u>(\$ 1999)</u>	Labor Income per Dollar Spent <u>(\$ 1999)</u>
Wilkinson County Project ID: 221760	1.21	0.51	0.33
Engineering Right-of-Way Construction	1.23 1.19 1.22	0.46 0.80 0.45	0.39 0.19 0.36
Stewart County Project ID: 322140	1.15	0.47	0.30
Engineering Right-of-Way Construction	0.00 1.11 1.16	0.00 0.78 0.41	0.00 0.17 0.32
Wayne County Project ID: 522430	1.26	0.53	0.37
Engineering Right-of-Way Construction	1.36 1.25 1.26	0.52 0.85 0.50	0.43 0.21 0.39

Executive Summary Table 6
Jobs Created per
\$1,000,000 in Spending for
Representative GRIP Projects

Area/Project	Jobs per \$1,000,000
Expense Category	<u>in Spending</u>
Wilkinson County Project ID: 221760	12.2
Engineering	17.3
Right-of-Way	8.2
Construction	13.0
Stewart County Project ID: 322140	11.9
Engineering	0.0
Right-of-Way	7.5
Construction	12.7
Wayne County Project ID: 522430	13.6
Engineering	20.8
Right-of-Way	11.0
Construction	13.9

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Introduction

For decades, the State of Georgia has sought to promote the economic development of rural counties by building major multi-lane highways. Highways were to be built to encourage growth and economic development rather than just to accommodate existing development. In 1989, the Governor's Road Improvement Program (GRIP) was formally initiated by a resolution of the state legislature and the Governor to connect 95 percent of Georgia's cities with a population of 2,500 or more to the nation's interstate highway system. The GRIP system was designed to encourage economic growth, balance population growth, and to improve accessibility. Its specific purpose was to ensure that 98 percent of the state's population would be within 20 miles of a four-lane road. Today, 1,371 miles or approximately 55 percent of GRIP corridors are open to traffic or are under construction. It is estimated that it will cost approximately \$2.4 billion to complete all of the GRIP corridors.

Since a primary objective of the GRIP system is to foster the economic development of rural Georgia, this study was commissioned by the Georgia Department of Transportation to investigate whether people and businesses in rural areas are benefiting economically from GRIP. The study consists of three phases. Phase 1 (Chapter 1) calculates and compares percentage changes in population, total personal income, labor force, employment, unemployment, and the unemployment rate for GRIP counties and non-GRIP counties. Metropolitan counties are excluded from the analysis. Phase 2 (Chapter 2) uses county-specific input-output models to estimate the short-term economic impacts of local spending by the Georgia Department of Transportation for three typical GRIP construction projects. Using the case study approach, Phase 3 (Chapter 3) provides some anecdotal evidence of the importance of GRIP.

CHAPTER ONE

PHASE I: SECONDARY DATA ANALYSIS

Phase I of the 2003 GRIP Analysis updates selected series of economic and demographic data presented in the 1997 GRIP Analysis Study titled "An Analysis of the Governor's Road Improvement Program (GRIP) for the Georgia Department of Transportation." Phase I analyzes these data to determine whether location on a major multi-lane highway fosters economic growth. The relative economic status and performance of four mutually exclusive groups of rural counties are investigated. To ensure that the analysis is not biased by the selection of a particular subset of counties, all of Georgia's rural counties were assigned to one of the following groups.

GRIP Counties: Non-metropolitan counties and non-Interstate counties that contain either a portion of a completed GRIP corridor or a finished section of an incomplete GRIP corridor that feeds into a finished GRIP corridor or to an Interstate.

Non-GRIP Counties: Non-metropolitan counties and non-Interstate counties with no GRIP corridor or ones with a completed portion of a corridor that does not connect to either a finished corridor or to an Interstate.

GRIP Rural Interstate Counties: Non-metropolitan counties with one or more interchanges on an Interstate that contain either a portion of a completed GRIP corridor or a finished section of an incomplete one that ultimately feeds to an existing GRIP corridor or to an Interstate.

Non-GRIP Rural Interstate Counties: Non-metropolitan counties with one or more interchanges on an Interstate that either lack a GRIP corridor or contain a finished portion of one that does not connect to an existing corridor or to an Interstate.

The analysis evaluates the performance of these groups of counties by calculating and comparing the 1990-to-2000 percentage changes in the groups' population, total personal income, labor force, employment, and unemployed. In addition, the 1990-to2000 change in the unemployment rate is estimated. The percentage changes for GRIP counties are compared to those for non-GRIP counties. In order to better account for regional differences in development patterns, separate analyses are conducted for North Georgia (Service Delivery Regions 1 and 2), Middle Georgia (Service Delivery Regions 3, 4, 5, and 6), and South Georgia (Service Delivery Regions 8, 9, 10, 11, and 12). Similarly, percentage changes for GRIP rural interstate counties are compared to those for non-GRIP rural interstate counties, but separate regional analyses are not conducted. Figures 1-1, 1-2, and 1-3 (pages 48-50) illustrate the study areas and county groups, respectively. Figure 1-4 (page 51) depicts Georgia's Metropolitan Statistical Areas. All of the figures and tables for Phase I appear in Appendix 1 of this study.

The county-level data regarding population were obtained from the U.S. Bureau of the Census. The county-level data for total personal income were obtained from the U.S. Department of Commerce. The county-level data pertaining to labor force, employment, unemployment, and the unemployment rates were obtained from the Georgia Department of Labor. Amounts reported for geographic aggregations above the county level, all percentage changes, and all changes in rates were estimated by the Selig Center for Economic Growth, Terry College of Business, the University of Georgia.

Results of Phase I Analysis

Tables 1-1 and 1-2 (pages 52-53) show that the 1990-2000 percentage changes in selected series of demographic and economic data varied considerably by county group and by region. Metropolitan Georgia experienced the largest percentage increases in population, personal income, labor force, and employment. Rural North Georgia posted the largest percentage decrease in the number of unemployed persons and, in turn, experienced the largest decline in the unemployment rate.

Among rural counties, those on the Interstates led in rapid labor force and employment growth, but rural North Georgia fared better than the rural Interstate counties when it came to population and personal income growth. Rural Middle Georgia posted the smallest percentage gains in population, labor force, and employment. Rural South Georgia posted the smallest percentage gains in total personal income.

The results for the GRIP counties are discussed in more detail in the following pages, but the analysis clearly shows that the GRIP system's economic benefits are most pronounced in South Georgia. Figure 1-4 (page 51) shows the GRIP counties in which employment growth outpaced that of comparable non-GRIP counties. Seventeen of the twenty-one GRIP counties that outperformed their non-GRIP peers are located in South Georgia, three of the growth leaders are in Middle Georgia, and only one leading county is located in North Georgia.

The 1990-2000 data as well as the percentage changes by area for population, total personal income, labor force, employment, and unemployment are reported in Tables 1-3 through 1-7 (pages 54-58), respectively.

Results for Rural South Georgia

In South Georgia, GRIP counties–as a group–experienced larger percentage increases in every measure of economic performance (personal income, employment, and labor force) than non-GRIP counties. Also, both the number of unemployed persons and the unemployment rate dropped more sharply for the GRIP group than for the non-GRIP group. The beneficiaries of the GRIP system are widely distributed throughout the region, and are not confined to a specific GRIP corridor or to an isolated geographic cluster of counties. GRIP counties in the region did not experience above-average rates of population growth, however. County-level population, total personal income, labor force, employment, unemployment, and unemployment rate statistics are reported in Tables 1-8 through 1-13 (pages 59-70), respectively.

Results for Rural Middle Georgia

In Middle Georgia, GRIP counties—as a group—experienced larger percentage increases in employment and labor force than the non-GRIP group, but this was not true for total personal income. The number of unemployed persons and the unemployment rate did not drop more for the GRIP group than for the non-GRIP group. GRIP counties in the region also did not experience above-average rates of population growth. Countylevel population, total personal income, labor force, employment, unemployment, and unemployment rate statistics are reported in Tables 1-14 through 1-19 (pages 71-76), respectively.

Results for Rural North Georgia

In North Georgia, GRIP counties–as a group–did not experience larger percentage changes in personal income, employment, or labor force. Nonetheless, the number of unemployed persons and the unemployment rate dropped more sharply for the GRIP group than for the non-GRIP group. GRIP counties in North Georgia did not experience above-average rates of population growth. County-level population, total personal income, labor force, employment, unemployment, and unemployment rate statistics are reported in Tables 1-20 through 1-25 (pages 77-82), respectively.

Results for GRIP Rural Interstate

GRIP Rural Interstate counties – as a group – experienced larger percentage changes in employment and labor force than the comparison group of non-GRIP Rural Interstate counties. The GRIP Rural Interstate group did not experience a larger percentage increase in total personal income or population, however. Also, the number of unemployed persons and the unemployment rate did not drop more for the GRIP Rural Interstate group than for the non-GRIP Rural Interstate group. County-level population, total personal income, labor force, employment, unemployed persons, and unemployment rate statistics are reported in Tables 1-26 through 1-31 (pages 83-88), respectively.

Implications of Phase I Analysis

Simple comparisons among groups of similar counties provide varying evidence of a linkage between GRIP and rural economic development. There is strong evidence that GRIP facilitates economic development in rural South Georgia, but only moderate evidence that it helps employment growth in rural Middle Georgia. There is scant evidence that GRIP encourages economic development in rural North Georgia, and it has no apparent effect on population growth in any region of the state. There is reasonable evidence that GRIP helps foster employment growth in rural counties on Interstates, perhaps because GRIP allows the advantages of an Interstate to penetrate more deeply into the host county. GRIP did not facilitate population growth in rural counties on Interstates, however.

The economic benefits of the GRIP program appear to be going to precisely those rural counties that need it the most. Over 71 percent of people living in rural Georgia live in the areas (South Georgia or rural interstate) that benefit the most from the GRIP system. Each year, the Georgia Department of Community Affairs (DCA) rates all of the state's 159 counties based on certain economic factors and divides them into tiers as required by the Job Tax Credit Law. Tier 1 and Tier 2 counties are the less developed or most economically stressed ones. The rural counties that benefit from GRIP are primarily Tier 1 and Tier 2 counties, where GRIP is having a pronounced impact on employment growth.

It is noteworthy that Georgia's overall population grew much more rapidly in the 1990s than it did in the 1980s. The state's 1990-2000 population gain of 26.4 percent exceeded its 1980-1990 gain of 18.6 percent. Since the acceleration in population growth was experienced by GRIP and non-GRIP groupings of counties in every region of the state, it cannot be attributed directly to the road improvement program. In addition, no county grouping experienced population losses in the 1990s. In contrast, both the Middle Georgia GRIP group of counties and the South Georgia group of non-GRIP counties lost population in the 1980s. Again, this population reversal cannot be attributed directly to the GRIP program.

Previous Studies of Developmental Highways in Georgia

Four existing studies of the economic effects of developmental highways, such as GRIP, in Georgia were identified. Each of these studies provides some evidence of a linkage between developmental highways and economic development.

 A 1997 report "An Analysis of the Governor's Road Improvement Program (GRIP) for the Georgia Department of Transportation" conducted by Douglas Bachtel and others at the University of Georgia found that GRIP counties fared significantly better than their non-metropolitan counterparts. The conclusions were based on a comparison of the performance of a group of ten rural GRIP counties to that of all of Georgia's non-metropolitan counties. Although the performance of this benchmark group may not reflect the performance of all of Georgia's GRIP counties, the analysis showed a linkage between the GRIP program and economic growth and development in the ten chosen counties.

- A 1999 study titled "Road Construction and Regional Development" conducted by Felix Rioja at Georgia State University used regression analysis to evaluate whether or not roads and road construction are associated with economic development in Georgia. Although the study did not specifically assess the GRIP program, it found that roads are one of the important determinants of development within Georgia's counties. The study cautioned, however, that road building alone does not guarantee increased employment and new business for a region.
- A 1990 study titled "Some Economic Impacts of Developmental Highways in Rural Georgia" conducted by UGA's Agricultural Experiment Stations showed that some counties benefit from highways, but others do not. Although the analysis focused on a very small number of counties, it suggests that the relative success of a road depends on factors such as geographic location, distance to major cities, and existing business activities.
- A 1985 study by Charles F. Floyd found strong and broad-based evidence that non-metropolitan counties located on or near multi-lane highways grew much more rapidly than the counties that were more isolated. The results indicated that the favorable development impact extended some distance from the highway. The findings were particularly well-grounded because all of Georgia's counties were included in the analysis.

CHAPTER TWO PHASE II: THE ECONOMIC IMPACT OF GRIP ROAD CONSTRUCTION PROJECTS

This phase estimates the short-term economic impacts of spending by the Georgia Department of Transportation for typical GRIP road construction projects. In consultation with the Georgia DOT, three representative projects were selected for analysis:

- Wayne County Project Description: SR 27/US 341 from US 25 to one mile west of CR 394, four lanes with a 44-foot median, widening from two to four lanes.
- Stewart County Project Description: US 27 from branch at MP 10.47 to SR 1 at CR 43 (on partially new location), four lanes with a 44-foot median, new construction roadway project
- Wilkinson County Project Description: SR 29/US 441 from Irwinton Bypass to N. CR 182 near McIntyre, four lanes with a 44-foot median, widening from two to four lanes.

The costs of engineering, rights-of-way, and construction were provided by the Georgia Department of Transportation. These expenditures, which are reported in Table 2-1 (page 92), were reduced to reflect amounts that were not spent in the county (e.g., payment to engineers who do not live or work in the local area). See Appendix 2 for all of Phase II's figures and tables. For analytical purposes, all dollar amounts also were converted to inflation-adjusted 1999 dollars, and unless otherwise indicated, the amounts in this report are expressed in 1999 dollars.

The IMPLAN (Impact Analyses and Planning) Professional modeling system was used to build detailed regional input-output models of Wayne, Stewart, and Wilkinson counties. The county-specific models then were used to quantify the economic impact of road-constructing expenditures on each county's economy.

The impacts were estimated in terms of output (gross receipts or sales), value added (or regional product), labor income, and employment. In addition to the total economic impacts of project expenditures, impacts per dollar of spending were estimated for output, value added, and labor income. Also, the number of jobs created per million dollars of expenditures was estimated.

The Economic Impact Concept

Short-term economic impacts are the net changes in regional output, value added, labor income, employment, and tax collections that are due to new dollars flowing into a region from a given enterprise or some kind of economic development. In this study, the economic development impetus is supplied by the three GRIP road construction projects in the three highlighted counties (Figure 2-1, page 90). The effects of expenditures that go to persons, businesses, or governments located outside of the county are not included in the value added, labor income, and employment impact estimates, but the output impacts include both domestic and foreign trade.

In economic terms, impacts are the changes in output, value added, labor income, and employment that occur in the region's industries (including households) when they produce goods and services to satisfy demand by consumers, businesses, investors, or governments that are from outside the region. Throughout this study, expenditures that represent the repercussions of spending originating from outside the county are counted as economic impacts. Since an insignificant proportion of the revenues received by the Georgia Department of Transportation originate in the county where the representative road project is located, spending by the Georgia DOT counts as an economic impact. Expenditures that immediately flow to recipients located outside the region, however, are not counted as economic impacts.

For goods made outside of the region, local value is created by wholesale and retail firms within the region, but not by the manufacturing firms that originally produced the goods elsewhere. So, when these goods are purchased locally, the economic benefit to the region's economy consists only of the wholesale and retail margins. The share of expenditures that immediately flows to recipients outside the region is not counted as an economic impact to the local economy. For example, since the petroleum production and refining industry is not present in any of the three rural counties, the portion of expenditures for gasoline that represents a payment to producers and refiners is not a local economic impact. Only the portion of fuel purchases that represents payments to local retail, wholesale, and distribution companies is a local economic impact.

The output impact includes both direct spending and the impacts generated by the re-spending of these amounts. Output impacts are the most inclusive, largest, measure of economic impact. Because of their size, output impacts typically are emphasized in economic impact studies, press releases, and by the media. The value-added impacts are similar to the output impacts, but they exclude expenditures related to foreign and domestic trade. Value-added impacts therefore provide a much more accurate measure of the actual economic benefits flowing to businesses and households in a region than the more inclusive output impacts.

The Multiplier Concept

In essence, multipliers capture the impact of the initial round of spending plus the impacts generated by successive rounds of re-spending of those initial dollars. The magnitude of a particular multiplier depends upon what proportion of each dollar spent leaves the region during each round of spending.

Figure 2-2 (page 91) illustrates the successive rounds of spending that might take place if a person buys an item locally. Assume that the amount spent is \$100 and that the appropriate regional output multiplier is 2.0. The initial injection of spending to the region is \$100, which creates a direct economic impact of \$100 to the regional economy. Of that \$100, only \$50 is re-spent locally; the rest flows out of the region through non-local taxes, non-local purchases, and income transfers. After the first round of re-spending, the total economic impact to the region is \$150. During the second round of re-spending, \$25 is re-spent locally and \$25 leaks out of the region, a 50 percent leakage. Now, the total economic impact to the region is \$175. After seven rounds of re-spending,

less than one dollar re-mains in the local economy, but the total economic impact has reached almost \$200. The induced impact to the region (\$100) equals the total impact (\$200) minus the direct impact.

The multiplier traces the flows of re-spending that take place throughout the region until the initial dollars have completely leaked from it to other regions. Obviously, multiplier effects within large, self-sufficient areas are likely to be larger than those in small, rural, or specialized areas that are less able to capture spending for necessary goods and services. Multiplier effects also vary greatly from industry to industry, but in general, the greater the interaction with the local economy, the larger the multiplier for that industry. For example, the construction, personal services, repair services, lodging, and entertainment industries have intricate relationships with local supporting industries, and therefore have relatively high multiplier values. Conversely, real estate, electric, gas, and sanitary services usually are less intertwined with local supporting industries, and their multipliers are lower.

Methods

Estimating the economic impact of the Georgia Department of Transportation's spending for road construction involves two distinct steps. First, initial spending amounts were obtained from the DOT, reduced to reflect non-local spending, and expressed in inflation-adjusted 1999 dollars. Second, the IMPLAN (Impact Analyses and Planning) Professional Version 2.0.1020 modeling system was used to build regional economic models that are specific to each county. Multipliers were used to assess the impacts associated with all categories of initial spending by the Georgia DOT.

Basically, multipliers capture the original expenditures resulting from the impact, the indirect effects of industries buying from industries, and the induced effects of household expenditures. They also account for Social Security and income tax leakage, institutional savings, commuting, and inter-institutional transfers.

Results of Phase II Analysis

Tables 2-2 and 2-3 (pages 93-94) show the economic impacts of expenditures associated with GRIP road construction projects in Wilkinson, Stewart, and Wayne counties. The tables report both the overall economic impact of each project as well as the specific impacts of spending for engineering, rights-of-way, and construction.

With respect to the Wilkinson County GRIP project, total outlays of \$23 million produced a total output impact of \$27.9 million, a value-added impact of \$11.7 million, and a labor income impact of \$7.6 million. The employment impact was 281 jobs. Considering that the county's total employment was 4,399 in 2000, expenditures by the Georgia Department of Transportation for the GRIP road construction project provided a significant short-term boost to the local economy.

In Stewart County, total outlays of \$12.3 million produced a total output impact of \$14.2 million, a value-added impact of \$5.8 million, and a labor income impact of \$3.7 million. The employment impact was 146 jobs, which means that expenditures for the GRIP road construction project provided a significant short-term boost to the local economy.

In Wayne County, total outlays of \$10.5 million produced a total output impact of \$13.3 million, a value-added impact of \$5.6 million, a labor income impact of \$3.9 million, and an employment impact of 143 jobs.

Table 2-4 (page 95) reports output, value-added, and labor income impacts per dollar spent, or essentially the aggregate multiplier values for the project. The output impact per dollar spent locally varied from \$1.26 in Wayne County to \$1.15 in Stewart County. Similarly, value-added impacts per dollar spent locally varied from 53 cents in Wayne County to 47 cents in Stewart County. Labor income impacts per dollar spent locally varied from 37 cents in Wayne County to 30 cents in Stewart County.

Table 2-5 (page 96) reports the number of jobs created per \$1 million in spending, which varied from 13.6 jobs in Wayne County to 11.9 jobs in Stewart County. The distributions of these jobs across major industries are shown in Table 2-6 (page 97). The

majority of the new jobs are in the construction industries, but there is an employment impact in almost every sector of the economy.

Implications of Phase II Analysis

Local outlays for GRIP projects generate positive economic benefits for rural counties in terms of output, value added, labor income, and employment. The economic impacts generated by road construction expenditures are not limited to initial spending, but include the multiplier impacts generated by re-spending of these amounts. Output impacts therefore exceed initial outlays, but the multiplier effects are relatively small. The low multiplier values reflect the rapid leakage of dollars from the local economy to other areas. Nonetheless, the short-term economic impacts of spending by the Georgia Department of Transportation for GRIP road construction projects can be very significant in rural counties where the overall economic base is relatively small.

The impact estimates capture only the short-term impacts of outlays by the DOT for road construction and do not include any of the benefits of the road improvements on the areas economic development or quality of life. The actual impacts on the host communities/counties therefore are much higher than these estimates. Finally, the impact estimates are not a net benefit analysis; they estimate only economic benefits of shortterm road construction expenditures and do not incorporate any possible costs borne by the local community.
CHAPTER THREE

PHASE III: ILLUSTRATIVE CASE STUDIES

Phase III consists of illustrative case studies of development along four GRIP corridors–US 441, the Fall Line Freeway, US 19, and the South Georgia Parkway–to provide anecdotal evidence of the programs economic development benefits and potential. The commentary and opinions, however, sometimes are augmented with references to readily available data.

US 441 Corridor

US 441 begins in North Carolina, traverses the length of South Carolina and Georgia, and terminates in Florida. The 371-miles long Georgia portion of US 441 passes through sixteen rural and two metropolitan counties, and is the state's longest GRIP corridor. Approximately 47 percent of the corridor is four-laned and is open to traffic. Although this route is predominately rural, it is very well traveled because it connects some major towns, including Athens, Douglas, Dublin, and Milledgeville. Moreover, the economic development benefits and potential of US 441 are substantial and varied.

Manufacturers operating in rural areas as well as professionals involved in selecting sites for new plants consistently emphasize the importance of easy access to four-lane highways or interstates. The US 441 Economic Development Council aptly states: Transportation, four-lane access to the interstates, consistently ranks #1 in independent surveys taken of Fortune 500 companies as the site selection factor which mostly influences their decisions to build, relocate or expand their company to another region.

- Multi-lane highways reduce costs of production and distribution, especially as manufacturers increase their use of just-in-time production practices.
- In 2000, manufacturers located within a six-mile radius of rural portions of US 441 employed over 25,000 people (Georgia 2000 Information System (GIS) based on data from the *Georgia Manufacturers Register*). For additional details, see Figures 3-1 and 3-2 (pages 100-101) and Table 3-1 (pages 105-111) in Appendix 3. GIS analysis indicates that the largest concentrations of manufacturing jobs were in Coffee County (4,684 jobs), Habersham County (3,930 jobs), Laurens County (3,262 jobs), Morgan County (3,261 jobs), and Putnam County (2,174 jobs). According to the US 441 Development Council, there are over 500 manufacturers and over 50,000 manufacturing jobs in the entire 44-county region surrounding the corridor.
- Industrial parks are sited along US 441 because the highway not only allows large trucks to access the plants, it also makes it easy for employees to commute to and from work. For example, there are two industrial parks on US 441 in Putnam County.
- Georgia's manufactured housing industry depends on US 441 to transport its raw materials and parts to the plants and its finished units to market. Mobile home manufacturers and their suppliers are concentrated in Atkinson, Coffee, and Putnam counties.
- Agriculture, mining, and forestry depend on excellent transportation services, because it is costly to ship the goods they produce.
- Timber is a major industry in the counties that surround the US 441 corridor, and the highway provides access to 7.1 million acres of national forest (US 441 Development Council). Upgrading two-lane stretches of the highway to four lanes will accommodate the large logging trucks more safely.
- According to the U.S. 441 Economic Development Council, agriculture generates \$2.3 billion dollars for the 44 counties along the corridor. The region's farmers depend on it to transport their products to food processors and consumers.
- The most compelling example of the impetus US 441 provides to retail-based economic development is the Tanger Factory Outlet Center and Craven Pottery

complex located at the US 441 and I-85 interchange. Today, there are over 150 outlet stores, and management of the Tanger Outlet Mall indicated that widening of US 441 all the way to I-20 would boost sales and profits as well as improve access to Athens and Augusta (*Florida Times Union*). The mammoth retail cluster has already stimulated the growth of a wide range of supporting industries, including 750 hotel rooms and 30 restaurants. In addition, the US 441 and I-85 interchange provides access to the Banks County Business Park.

- National chain stores, antique shops, and craft stores favor locations along US
 441, with antiques shops and specialty stores often clustering in old town squares.
- The four-laning of US 441 to the South Georgia Parkway made it possible for Douglas to attract and retain its largest employer – a massive Wal-Mart distribution center. When 441 is four laned to the Florida line, Douglas should benefit from improved access to the Orlando market area as well as to I-10, which will help the community to further solidify its role as a distribution center.
- Wal-Mart's decision to locate in Douglas is credited with putting the town on the mental maps of other companies that are selecting sites for new operations.
- The four-laning of US 441 to the South Georgia Parkway put Douglas within easy reach of the Port of Brunswick and the I-95 corridor, both of which local business and government leaders consider vital to the future growth of South Georgia. The upgrade also provided an excellent connection to the Jacksonville metropolitan area.
- The US 441 Heritage Highway Inc. actively and aggressively promotes tourism along the highway, touting it as a more pleasant alternative to busy and frequently congested north-south interstates.
- The construction of new bypasses around many of the historic towns help to preserve the rural and historic character of the road, further enhancing the prospects for cultural tourism along this corridor.
- US 441 provides vital links to many of the states most important natural and recreational sites, including Sky Valley, Mountain City, Tallulah Falls, Wilson Shoals Wildlife Management Area, the State Botanical Garden of Georgia, Lake Oconee, the Lockerby Arboretum, the Broxton Rocks, Little Ocmulgee State

Park, General Coffee State Park, the Okefenokee Swamp, Stephen C. Foster State Park, and the Suwanee River.

- Four laning the entire route will improve visitors' perceptions about the accessibility of the attractions along the corridor, stimulating additional trips. Also, attractions on major multi-lane highways probably are more likely to be included as stops on bus tours than are similar attractions located on two-lane highways.
- In Clayton, Clarkesville, Athens, Madison, Milledgeville, Dublin, Douglas, and other communities, US 441 brings travelers through or close to many historic squares and districts.
- US 441 is close to many historic sites, including the University of Georgia's campus, the double-barreled cannon, the Elder Mill Covered Bridge, the Eagle Tavern, Heritage Hall, the Gingerbread House, the Rogers House, Rock Eagle Mound, Uncle Remus Museum, the Old Governors Mansion, the Old Capital Building, the Ashley-Slater House, and the Heritage Station Museum.
- There are many opportunities to shop for antiques and crafts, especially in Dillard, Clayton, Clarkesville, Madison, and Douglas.

The Fall Line Freeway

The Fall Line Freeway will link Augusta, Macon, and Columbus, and become a major east-west connector through 215 miles of central Georgia. Approximately 78 percent of the highway is open to traffic now. Although a primary function of the Fall Line Freeway will be to provide a high capacity and relatively direct link between three of the states major cities, the four-lane corridor will vastly improve access to and from scores of communities located in the seven rural counties through which it passes. The economic development benefits and potential of the Fall Line Freeway therefore will flow to both major metropolitan areas and scores of rural communities in Middle Georgia.

Metropolitan Areas

- Columbus area businesses will benefit from much improved access to I-16 and to the Port of Savannah.
- Productive ties will be more likely to develop between business located in Columbus, Macon, and Savannah.
- Macon's central location is ideal for hosting statewide meetings and conventions, and more direct routes to Augusta and Columbus definitely will enhance this advantage.
- The freeway will make Macon an even better location from which to deliver government operations to clients located throughout Georgia. It will enhance the metropolitan area's role as a regional distribution center.
- Shorter commute times from outlying areas will allow employers located in Augusta, Columbus, and Macon to capitalize on locally available labor.
- The Macon Chamber of Commerce believes that the Fall Line Freeway will improve prospects for the Downtown Industrial District and reduce truck traffic at the intersection of I-16 and I-75.
- The freeway will connect three major military bases in Columbus, Macon, and Augusta, via I-16 or the Savannah River Parkway, to the Port of Savannah.

Rural Areas

- The Fall Line Freeway will make the region much more accessible to tourists, boosting the prospects for tourism-based economic development.
- Agriculture, agricultural support businesses, and the kaolin industry will benefit from both the wider roads and from more direct routes to the interstates, ports, and cities.
- The freeway will make a broad swath of middle Georgia more attractive to industry, especially where it intersects other GRIP corridors. The Fall Line Freeway will intersect US 19 in Taylor County, US 441 in Wilkinson County, and US1/SR17 in Jefferson County.

- The freeway will reduce both the time and hassle associated with commuting from rural counties that lie just outside of the Columbus, Macon, and Augusta metropolitan areas, spurring residential and retail development in these counties.
- In 2000, manufacturers located within a six-mile radius of rural portions of the Fall Line Freeway employed 4,535 people (Georgia 2000 Information Systems (GIS) based on data from the *Georgia Manufacturers Register*). For additional details, see Figure 3-3 (page 102) and Table 3-2 (pages112-113) in Appendix 3. The GIS analysis indicates that the largest concentrations of manufacturing jobs were in Jefferson County (1,886 jobs) and Washington County (1,296 jobs).

The US 19 Corridor

The GRIP portion of the US 19 corridor extends from Griffin in the southern portion of the Atlanta metropolitan area, and continues south through Thomaston, Butler, Americus, Albany, Camilla, and Thomasville before it crosses the Florida state line. Upgrading the highway from two to four lanes is considered vital to the economic development of the predominately rural region through which the corridor passes. Approximately 72 percent of the 194-mile long highway is open to traffic, with the remaining work to be completed in two stages– from the north end of the Leesburg Bypass to Americus and then from Americus to the Fall Line Freeway, south of Butler. This corridor is particularly important because:

 It makes it easier for rural counties at the northern end of the corridor to tap into the economic development potential of metropolitan Atlanta area in general and specifically that of Hartsfield International Airport. Similarly, US 19 will help Southwest Georgia to benefit more fully from fast-paced growth in northern Florida, particularly the growth of the Tallahassee metropolitan area. The US 19 corridor serves as a multi-lane connection between Thomasville and I-10, which lies just south of the Georgia-Florida state line.

- The four laning of US 19 reduces the time and hassle associated with commuting from rural counties that are close to the Atlanta, Albany, and Tallahassee metropolitan areas, spurring residential and retail development in rural Georgia.
- The completion of this multi-lane corridor will help Albany to solidify its role as Southwest Georgia's major trade, service, health care, and industrial center.
- The highway improvements will improve the efficiency of the Marine Corps Logistics facility in Albany, which helps to ensure its survival and enhances its prospects for expansion.
- In 2002, the highway's presence helped Thomasville become the site for American Signature Furniture's regional distribution center.
- The improved highway will help the region retain its existing manufacturing base and attract new manufacturers. In 2000, manufacturers located within a six-mile radius of rural portions of US 19 employed over 15,000 people (Georgia 2000 Information System (GIS) based on data from the *Georgia Manufacturers Register*). For additional details, see Figure 3-4 (page 103) and Table 3-3 (pages 114-117) in Appendix 3. GIS analysis indicates that the largest concentrations of manufacturing jobs were in Thomas County (4,056), Sumter County (3,265), Upson County (3,034), and Mitchell County (2,638).
- US 19 will help Thomasville develop as a center for Georgia's emerging biotechnology industry.
- The four laning of US 19 will further Thomasville's development as a retirement center, particularly with respect to attracting retirees back to Georgia from Florida.
- Widening US 19 is vital to the economic well-being of the region's large agriculture, lumber, wood, pulp, and forest products industries.
- Because the highway is viewed as a more leisurely north-south alternative to I-75, upgrades to US 19 will increase the flow of traffic through the area and improve access to the region's tourist destinations, enhancing the prospects for tourism-based economic development. The Jimmy Carter National Historic Site and the Chehaw Indian Monument are two of the attractions along the corridor. Habitat for Humanity is building its Global Village in Americus. The world's largest

collection of telephone equipment is housed in the Georgia Rural Telephone Museum in Leslie. Thomasville's elegant historic homes, its award-winning downtown, and its scores of Victorian-era plantations are major attractions for visitors. The National Trust for Historic Preservation recently included Thomasville on its national list of a "Dozen Distinctive Destinations."

The South Georgia Parkway

The South Georgia Parkway (US 82 and GA 520) is a completed GRIP corridor that passes through fifteen mostly rural counties in South Georgia. The major cities along the multi-lane corridor are Brunswick, Waycross, Tifton, Albany, and Columbus. This strategic corridor stimulates the economic development of the southern third of the state.

- The South Georgia Parkway connects the region to the states major seaports, to the barge terminal in Columbus, and to major north-south interstates (I-95, I-75 and I-185), making a wealth of transportation infrastructure accessible to Albany, Columbus, and many other South Georgia communities. The highway provides access to the East Coasts largest switching rail yard in Waycross. Also, the corridor puts the Port of Jacksonville within easy reach of shippers in South Georgia.
- In 2000, manufacturers located within a six-mile radius of rural portions of the Parkway employed over 10,000 people (Georgia 2000 Information System (GIS) based on data from the *Georgia Manufacturers Register*). For additional details, see Figure 3-5 (page 104) and Table 3-4 (pages 118-121) in Appendix 3. GIS analysis indicates that the largest concentrations of manufacturing jobs were in Tift County (3,730) and Ware County (2,356).
- The region's large manufactured housing industry depends on the Parkway as well as other high capacity roads to transport its raw materials and parts to the plants and to take its finished products to market.

- The four-lane highway allows employees who live in outlying areas to commute to jobs in the region's cities more easily. It also gives rural residents better access to schools, shopping, health care, recreation, and cultural activities.
- The corridor is vital to the continued success of the region's important timber, agriculture, and food processing industries because it helps companies keep production and shipping costs lows.
- The Parkway advances Georgia's development as a major distribution and transportation hub.
- It provides Waycross and other communities with better access to rapidly growing markets in northern Florida (e.g., Jacksonville). The highway therefore increases the potential for development based on distribution centers, manufacturing, and tourism.
- The Parkway provides access to the region's tourist destinations, enhancing the prospects for tourism-based economic development. The Laura S. Walker State Park, Okefenokee Swamp Park, and the Okefenokee National Wildlife Refuge and Wilderness Area lie south of the highway near Waycross.
- The corridor provides access to the Coastal Plain Experiment Station, the Georgia Agrirama, and the Coastal Plain Research Arboretum in Tifton. By developing ways to improve crop growth, these facilities help to bring new business to rural areas of the state.

Implications of Phase III Analysis

The anecdotal evidence of the GRIP program's economic development benefits and potential is extensive and varied.

- Easy access to four-lane highways or interstates is vital to manufacturers, and it is an important factor considered by professionals involved in selecting sites for new plants. Georgia's manufactured housing, mining, forestry, and agricultural industries depend on excellent highways to transport their products to processors and consumers.
- Multi-lane highways make it easy for employees to commute to and from work.

- Multi-lane highways stimulate retail-based economic development, ranging from massive agglomerations of outlet stores at major interchanges, to national chain stores, to antique shops and craft stores.
- Multi-lane highways stimulate tourism-based economic development by
 providing a more pleasant alternative to busy and frequently congested northsouth interstates. New bypasses around many historic towns, which help to
 preserve the rural and historic character of the corridor, enhance the prospects for
 cultural tourism. Multi-lane highways improve visitors' perceptions about the
 accessibility of the state's most important natural and recreational sites.
- Multi-lane highways enhance the prospects for developing productive synergies between businesses located in various cities traversed by the corridors.
- Multi-lane highways improve access to major statewide infrastructure investments, such as the ports in Savannah or Brunswick, rail hubs, or major airports.
- Multi-lane highways improve access to Georgia's major military bases, enhancing both their productivity and prospects for survival.
- Multi-lane highways make it easier for rural areas to tap into the economic development potential of major areas located in Georgia as well as in neighboring states.
- Multi-lane highways advance Georgia's development as a major distribution and transportation hub.

APPENDIX I



GRIP Study Areas:

North, Middle, and South Georgia





Source: Selig Center for Economic Growth, Terry College of Business, The University of Georgia.

ns -Rabun Map 1-2 GRIP Whit ershan Non-GRIP Lumpkir Rural Interstate Metropolitan Banks Frankli 20 Ebe Miles Will kes Linco Putnan Jaspe Hancock Pike Baldy Burke lleris

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Note: GRIP counties are non-metropolitan and non-Interstate counties that contain either a portion of a completed GRIP corridor or a portion of an incomplete GRIP corridor that provides access to a completed GRIP corridor or to an Interstate. Non-GRIP counties are non-metropolitan and non-Interstate counties that either do not contain a completed portion of a GRIP corridor or contain a completed portion of a Corridor rot contain a completed portion of a corridor that does not provide access to either a completed corridor or to an Interstate. Rural Interstate counties are non-metropolitan counties that have one or more interchanges on an Interstate. Metropolitan counties are counties that are part of an officially designated metropolitan statistical area.

Source: Selig Center for Economic Growth, Terry College of Business, The University of Georgia.

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Figure 1-3

GRIP Study Rural Interstate Counties



Note: GRIP Rural Interstate refers to non-metropolitan counties with one or more interchanges on an Interstate that contain either a portion of a completed GRIP corridor or a portion of an incomplete GRIP corridor that provides access to a completed GRIP corridor or to an Interstate. Non-GRIP Rural Interstate refers to non-metropolitan counties with one or more interchanges on an Intersate that either do not contain a completed portion of a GRIP corridor or contain a completed portion of a corridor that does not provide access to either a completed corridor or to an Interstate.

Source: Selig Center for Economic Growth, Terry College of Business, The University of Georgia.



Figure 1-4 GRIP Counties Where Employment Growth Outpaced that of Comparable Non-GRIP Counties

Note: GRIP counties are non-metropolitan and non-Interstate counties that contain either a portion of a completed GRIP corridor or a portion of an incomplete GRIP corridor that provides access to a completed GRIP corridor or to an Interstate.

Source: Selig Center for Economic Growth, Terry College of Business, The University of Georgia.

Table 1-1 Percentage Change, 1990-2000

<u>Area</u>	Census Population (% change)	Total Personal Income <u>(%</u> <u>change)</u>	Labor Force <u>(% change)</u>	Employment (% change)	Unemploy- ment (% change)
Georgia	26.4	98.2	26.4	28.9	-15.2
North ¹	26.6	88.5	20.4	25.4	-44.1
GRIP	20.9	78.5	9.7	14.6	-48.5
Non-GRIP	38.1	110.1	41.2	46.1	-33.2
Middle ¹	17.9	70.1	9.6	10.4	-1.8
GRIP	9.5	67.5	10.4	11.0	1.6
Non-GRIP	14.1	71.3	9.3	10.1	-3.4
South ¹	13.0	70.8	15.6	16.7	-4.0
GRIP	13.0	71.1	15.6	17.0	-7.4
Non-GRIP	13.0	70.1	15.0	15.2	13.5
Rural Interstate	21.6	85.6	24.3	26.9	-15.7
GRIP	18.6	83.6	26.1	28.0	-6.7
Non-GRIP	23.5	86.9	23.2	26.2	-20.3
Metropolitan	30.2	104.5	31.7	34.4	-16.8

¹Statistics do not include rural interstate and metropolitan counties.

Source: Selig Center for Economic Growth, Terry College of Business, University of Georgia, based on data obtained from the U.S. Census Bureau, the U.S. Bureau of Economic Analysis, and the Georgia Department of Labor.

Unemployment Rate Summary, 1990 and 2000

Area	Unemployment Rate	Unemployment Rate	Change in Rate
	in 1990	in 2000	<u>1990 to 2000</u>
Georgia	5.8	3.8	-2.0
North ¹	7.8	3.5	-4.3
GRIP	8.4	3.8	-4.6
Non-GRIP	6.6	3.0	-3.6
Middle ¹	6.9	6.1	-0.8
GRIP	7.1	6.5	-0.6
Non-GRIP	6.8	6.0	-0.8
South ¹	6.1	5.0	-1.1
GRIP	5.9	4.7	-1.2
Non-GRIP	7.4	7.3	-0.1
Rural Interstate	6.5	4.3	-2.2
GRIP	5.9	4.3	-1.6
Non-GRIP	6.8	4.3	-2.5
Metropolitan	5.4	3.4	-2.1

¹Statistics do not include rural interstate and metropolitan counties.

Population Statistics Summary by Area, 1990 and 2000

<u>Area</u>	Census Population <u>in 1990</u>	Census Population <u>in 2000</u>	Percent Change 1990 to 2000
Georgia	6,478,216	8,186,453	26.4
North ¹	311,096	393,876	26.6
GRIP	207,297	250,572	20.9
Non-GRIP	103,799	143,304	38.1
Middle ¹	294,214	331,519	12.7
GRIP	89,399	97,890	9.5
Non-GRIP	204,815	233,629	4.1
South ¹	641,140	724,461	13.0
GRIP	451,681	510,412	13.0
Non-GRIP	189,459	214,049	13.0
Rural Interstate	880,204	1,069,933	21.6
GRIP	352,162	417,756	18.6
Non-GRIP	528,042	652,177	23.5
Metropolitan	4,351,562	5,666,664	30.2

¹Statistics do not include rural interstate and metropolitan counties.

Source: Selig Center for Economic Growth, Terry College of Business, University of Georgia, based on data obtained from the U.S. Census Bureau.

Total Personal Income Statistics Summary by Area, 1990 and 2000

<u>Area</u>	Total Personal Income in 1990 (thousands of dollars)	Total Personal Income in 2000 (thousands of dollars)	Percent Change 1990 to 2000
Georgia	115,414,190	228,738,205	98.2
North ¹	4,485,009	8,453,668	88.5
GRIP	3,064,491	5,468,998	78.5
Non-GRIP	1,420,518	2,984,670	110.1
Middle ¹	3,917,924	6,665,879	70.1
GRIP	1,197,681	2,005,847	67.5
Non-GRIP	2,720,243	4,660,032	71.3
South ¹	8,284,969	14,151,353	70.8
GRIP	5,846,858	10,003,938	71.1
Non-GRIP	2,438,111	4,147,415	70.1
Rural Interstate	12,894,438	23,933,718	85.6
GRIP	5,089,208	9,343,095	83.6
Non-GRIP	7,805,230	14,590,623	86.9
Metropolitan	85,831,850	175,533,587	104.5

¹Statistics do not include rural interstate and metropolitan counties.

Source: Selig Center for Economic Growth, Terry College of Business, University of Georgia, based on data obtained from the U.S. Bureau of Economic Analysis.

Labor Force Statistics Summary by Area, 1990 and 2000

Area	Labor Force	Labor Force	Percent Change
	in 1990	in 2000	1990 to 2000
Georgia	3,300,393	4,173,292	26.4
North ¹	156,966	188,983	20.4
GRIP	103,870	113,995	9.7
Non-GRIP	53,096	74,988	41.2
Middle ¹	132,597	145,343	9.6
GRIP	40,689	44,927	10.4
Non-GRIP	91,908	100,416	9.3
South ¹	590,869	682,750	15.6
GRIP	510,186	589,932	15.6
Non-GRIP	80,683	92,818	15.0
Rural Interstate	423,241	525,969	24.3
GRIP	155,911	196,604	26.1
Non-GRIP	267,330	329,365	23.2
Metropolitan	1,996,720	2,630,247	31.7

¹Statistics do not include rural interstate and metropolitan counties.

Employment Statistics Summary By Area, 1990 and 2000

<u>Area</u>	Employment	Employment	Percent Change
	in 1990	in 2000	1990 to 2000
Georgia	3,118,262	4,018,885	28.9
North ¹	145,639	182,648	25.4
GRIP	95,808	109,842	14.6
Non-GRIP	49,831	72,806	46.1
Middle ¹	124,065	136,963	10.4
GRIP	37,999	42,193	11.0
Non-GRIP	86,066	94,770	10.1
South ¹	556,826	650,073	16.7
GRIP	481,687	563,545	17.0
Non-GRIP	75,139	86,528	15.2
Rural Interstate	397,500	504,272	26.9
GRIP	147,274	188,547	28.0
Non-GRIP	250,226	315,725	26.2
Metropolitan	1,894,232	2,544,929	34.4

¹Statistics do not include rural interstate and metropolitan counties.

Unemployment Statistics Summary by Area, 1990 and 2000

Area	Unemployment	Unemployment	Percent Change
	<u>in 1990</u>	in 2000	1990 to 2000
Georgia	182,131	154,407	-15.2
North ¹	11,327	6,335	-44.1
GRIP	8,062	4,153	-48.5
Non-GRIP	3,265	2,182	-33.2
Middle ¹	8,532	8,380	-1.8
GRIP	2,690	2,734	1.6
Non-GRIP	5,842	5,646	-3.4
South ¹	34,043	32,677	-4.0
GRIP	28,499	26,387	-7.4
Non-GRIP	5,544	6,290	13.5
Rural Interstate	25,741	21,697	-15.7
GRIP	8,637	8,057	-6.7
Non-GRIP	17,104	13,640	-20.3
Metropolitan	102,488	85,318	-16.8

¹Statistics do not include rural interstate and metropolitan counties.

South Georgia: Population Statistics, 1990 and 2000

<u>Area</u>	Census Population <u>in 1990</u>	Census Population <u>in 2000</u>	Percent Change <u>1990 to 2000</u>
South Georgia Total	641,140	724,461	13.0
GRIP Counties			
Stewart	5,654	5,252	-7.1
Talbot	6,524	6,498	-0.4
Taylor	7,642	8,815	15.3
Webster	2,263	2,390	5.6
Appling	15,744	17,419	10.6
Dodge	17,607	19,171	8.9
Jeff Davis	12,032	12,684	5.4
Telfair	11,000	11,794	7.2
Wayne	22,356	26,565	18.8
Colquitt	36,645	42,053	14.8
Decatur	25,511	28,240	10.7
Early	11,854	12,354	4.2
Grady	20,279	23,659	16.7
Miller	6,280	6,383	1.6
Mitchell	20,275	23,932	18.0
Seminole	9,010	9,369	4.0
Terrell	10,653	10,970	3.0
Thomas	38,986	42,737	9.6
Worth	19,745	21,967	11.3
Atkinson	6,213	7,609	22.5
Berrien	14,153	16,235	14.7
Brantley	11,077	14,629	32.1
Brooks	15,398	16,450	6.8
Charlton	8,496	10,282	21.0
Clinch	6,160	6,878	11.7
Coffee	29,592	37,413	26.4
Lanier	5,531	7,241	30.9
Pierce	13,328	15,636	17.3
Long	6,202	10,304	66.1
Ware	35,471	35,483	0.0
GRIP Total	451,681	510,412	13.0

(continued)

Table 1-8 (Continued)

South Georgia: Population Statistics, 1990 and 2000

<u>Area</u>	Census Population <u>in 1990</u>	Census Population <u>in 2000</u>	Percent Change 1990 to 2000
Non-GRIP Counties			
Clay	3,364	3,357	-0.2
Macon	13,114	14,074	7.3
Marion	5,590	7,144	27.8
Quitman	2,209	2,598	17.6
Randolph	8,023	7,791	-2.9
Schley	3,588	3,766	5.0
Sumter	30,228	33,200	9.8
Evans	8,724	10,495	20.3
Johnson	8,329	8,560	2.8
Montgomery	7,163	8,270	15.5
Tattnall	17,722	22,305	25.9
Toombs	24,072	26,067	8.3
Wheeler	4,903	6,179	26.0
Wilcox	7,008	8,577	22.4
Baker	3,615	4,074	12.7
Calhoun	5,013	6,320	26.1
Bacon	9,566	10,103	5.6
Ben Hill	16,245	17,484	7.6
Echols	2,334	3,754	60.8
Irwin	8,649	9,931	14.8
Non-GRIP Total	189,459	214,049	13.0

Note: Statistics do not include rural interstate and metropolitan counties.

Source: Selig Center for Economic Growth, Terry College of Business, University of Georgia, based on data obtained from the U.S. Census Bureau.

South Georgia: Total Personal Income Statistics, 1990 and 2000

Area	Total Personal Income in 1990 (thousands of dollars)	Total Personal Income in 2000 (thousands of dollars)	Percent Change <u>1990 to 2000</u>
South Georgia Total	8,284,969	14,151,353	70.8
GRIP Counties			
Stewart	65,638	107,309	63.5
Talbot	71,444	111,314	55.8
Taylor	97,516	160,796	64.9
Webster	26,978	44,537	65.1
Appling	188,500	310,884	64.9
Dodge	210,038	350,985	67.1
Jeff Davis	161,777	246,594	52.4
Telfair	137,012	210,417	53.6
Wayne	305,528	522,941	71.2
Colquitt	500,823	806,727	61.1
Decatur	347,492	554,609	59.6
Early	158,419	258,401	63.1
Grady	246,177	428,681	74.1
Miller	84,391	141,478	67.6
Mitchell	257,784	463,838	79.9
Seminole	111,552	203,201	82.2
Terrell	122,133	194,923	59.6
Thomas	591,302	1,048,580	77.3
Worth	246,247	427,316	73.5
Atkinson	78,415	141,276	80.2
Berrien	191,261	316,894	65.7
Brantley	124,020	257,219	107.4
Brooks	173,454	309,009	78.2
Charlton	93,610	168,683	80.2
Clinch	68,822	121,997	77.3
Coffee	420,952	775,742	84.3
Lanier	69,521	132,105	90.0
Pierce	169,314	333,752	97.1
Long	64,126	127,918	99.5
Ware	462,612	725,812	56.9
GRIP Total	5,846,858	10,003,938	71.1

(continued)

Table 1-9 (Continued)

South Georgia: Total Personal Income Statistics, 1990 and 2000

Area	Total Personal Income in 1990 (thousands of dollars)	Total Personal Income in 2000 (thousands of dollars)	Percent Change 1990 to 2000
Non-GRIP Counties			
Clay	34,589	62,345	80.2
Macon	163,783	269,915	64.8
Marion	61,479	116,946	90.2
Quitman	26,313	46,079	75.1
Randolph	93,393	147,847	58.3
Schley	46,911	77,820	65.9
Sumter	416,474	716,155	72.0
Evans	117,589	211,237	79.6
Johnson	94,673	160,110	69.1
Montgomery	92,488	150,825	63.1
Tattnall	232,066	396,049	70.7
Toombs	325,778	520,402	59.7
Wheeler	58,085	92,564	59.4
Wilcox	83,152	146,362	76.0
Baker	45,468	76,793	68.9
Calhoun	68,024	109,104	60.4
Bacon	117,746	207,606	76.3
Ben Hill	219,886	394,327	79.3
Echols	28,482	48,990	72.0
Irwin	111,732	195,939	75.4
Non-GRIP Total	2,438,111	4,147,415	70.1

Note: Statistics do not include rural interstate and metropolitan counties.

Source: Selig Center for Economic Growth, Terry College of Business, University of Georgia, based on data obtained from the U.S. Bureau of Economic Analysis.

South Georgia: Labor Force Statistics, 1990 and 2000

Area	Labor Force <u>in 1990</u>	Labor Force <u>in 2000</u>	Percent Change 1990 to 2000
South Georgia Total	590,869	682,750	15.6
GRIP Counties			
Stewart	2,153	2,406	11.8
Talbot	2,883	2,852	-1.1
Taylor	3,204	3,823	19.3
Webster	1,070	1,166	9.0
Appling	7,504	8,132	8.4
Dodge	7,639	9,954	30.3
Jeff Davis	5,877	5,214	-11.3
Telfair	4,748	4,710	-0.8
Wayne	10,369	11,808	13.9
Colquitt	16,658	19,427	16.6
Decatur	318,189	367,744	15.6
Early	5,136	4,755	-7.4
Grady	9,420	9,487	0.7
Miller	2,683	3,188	18.8
Mitchell	9,081	12,224	34.6
Seminole	4,054	4,847	19.6
Terrell	4,602	4,161	-9.6
Thomas	18,204	21,603	18.7
Worth	9,031	9,432	4.4
Atkinson	2,770	3,343	20.7
Berrien	6,963	6,528	-6.2
Brantley	4,807	6,290	30.9
Brooks	6,409	7,874	22.9
Charlton	3,553	3,818	7.5
Clinch	2,579	3,343	29.6
Coffee	14,419	20,726	43.7
Lanier	2,513	3,663	45.8
Pierce	6,364	7,773	22.1
Long	2,464	3,980	61.5
Ware	14,840	15,661	5.5
GRIP Total	510,186	589,932	15.6

(continued)

Table 1-10 (Continued)

South Georgia: Labor Force Statistics, 1990 and 2000

Area	Labor Force in 1990	Labor Force in 2000	Percent Change 1990 to 2000
Non-GRIP Counties			
Clay	1,327	1,561	17.6
Macon	2,277	3,457	51.8
Marion	3,842	4,559	18.7
Quitman	876	1,424	62.6
Randolph	3,096	3,203	3.5
Schley	1,665	1,906	14.5
Sumter	13,740	14,980	9.0
Evans	3,886	5,267	35.5
Johnson	3,686	3,542	-3.9
Montgomery	3,357	3,793	13.0
Tattnall	6,879	7,354	6.9
Toombs	10,841	12,630	16.5
Wheeler	2,056	1,947	-5.3
Wilcox	2,876	3,303	14.8
Baker	1,582	1,622	2.5
Calhoun	2,093	2,466	17.8
Bacon	4,417	4,360	-1.3
Ben Hill	7,246	9,247	27.6
Echols	1,041	1,283	23.2
Irwin	3,900	4,914	26.0
Non-GRIP Total	80,683	92,818	15.0

Note: Statistics do not include rural interstate and metropolitan counties.

South Georgia: Employment Statistics, 1990 and 2000

Area	Employment <u>in 1990</u>	Employment <u>in 2000</u>	Percent Change <u>1990 to 2000</u>
South Georgia Total	556,826	650,073	16.7
GRIP Counties			
Stewart	1,967	2,258	14.8
Talbot	2,679	2,657	-0.8
Taylor	2,914	3,610	23.9
Webster	982	1,126	14.7
Appling	6,595	7,434	12.7
Dodge	7,174	9,494	32.3
Jeff Davis	5,491	4,895	-10.9
Telfair	4,342	4,198	-3.3
Wayne	9,682	11,098	14.6
Colquitt	15,777	18,264	15.8
Decatur	302,293	354,416	17.2
Early	4,817	4,394	-8.8
Grady	8,946	8,899	-0.5
Miller	2,591	3,016	16.4
Mitchell	8,199	11,476	40.0
Seminole	3,887	4,607	18.5
Terrell	4,209	3,808	-9.5
Thomas	17,285	20,551	18.9
Worth	8,474	8,850	4.4
Atkinson	2,559	3,082	20.4
Berrien	6,450	6,160	-4.5
Brantley	4,394	5,923	34.8
Brooks	6,168	7,423	20.3
Charlton	3,379	3,656	8.2
Clinch	2,447	3,144	28.5
Coffee	13,361	19,604	46.7
Lanier	2,393	3,454	44.3
Pierce	5,966	7,416	24.3
Long	2,343	3,848	64.2
Ware	13,923	14,784	6.2
GRIP Total	481,687	563,545	17.0

(continued)

Table 1-11 (Continued)

South Georgia: Employment Statistics, 1990 and 2000

Area	Employment in 1990	Employment in 2000	Percent Change <u>1990 to 2000</u>
Non-GRIP Counties			
Clay	1,263	1,458	15.4
Macon	1,983	3,299	66.4
Marion	3,554	4,326	21.7
Quitman	816	1,342	64.5
Randolph	2,843	2,956	4.0
Schley	1,513	1,822	20.4
Sumter	12,514	14,214	13.6
Evans	3,724	5,026	35.0
Johnson	3,437	3,282	-4.5
Montgomery	3,126	3,440	10.0
Tattnall	6,539	6,763	3.4
Toombs	10,124	11,300	11.6
Wheeler	1,904	1,754	-7.9
Wilcox	2,733	3,135	14.7
Baker	1,499	1,541	2.8
Calhoun	1,976	2,263	14.5
Bacon	4,152	4,091	-1.5
Ben Hill	6,782	8,665	27.8
Echols	989	1,223	23.7
Irwin	3,668	4,628	26.2
Non-GRIP Total	75,139	86,528	15.2

Note: Statistics do not include rural interstate and metropolitan counties.

South Georgia: Unemployment Statistics, 1990 and 2000

<u>Area</u>	Unemployment <u>in 1990</u>	Unemployment in 2000	Percent Change 1990 to 2000
South Georgia Total	34,043	32,677	-4.0
GRIP Counties			
Stewart	186	148	-20.4
Talbot	204	195	-4.4
Taylor	290	213	-26.6
Webster	88	40	-54.5
Appling	909	698	-23.2
Dodge	465	460	-1.1
Jeff Davis	386	319	-17.4
Telfair	406	512	26.1
Wayne	687	710	3.3
Colquitt	881	1,163	32.0
Decatur	15,896	13,328	-16.2
Early	319	361	13.2
Grady	474	588	24.1
Miller	92	172	87.0
Mitchell	882	748	-15.2
Seminole	167	240	43.7
Terrell	393	353	-10.2
Thomas	919	1,052	14.5
Worth	557	582	4.5
Atkinson	211	261	23.7
Berrien	513	368	-28.3
Brantley	413	367	-11.1
Brooks	241	451	87.1
Charlton	174	162	-6.9
Clinch	132	199	50.8
Coffee	1,058	1,122	6.0
Lanier	120	209	74.2
Pierce	398	357	-10.3
Long	121	132	9.1
Ware	917	877	-4.4
GRIP Total	28,499	26,387	-7.4

(continued)

Table 1-12 (Continued)

South Georgia: Unemployment Statistics, 1990 and 2000

<u>Area</u>	Unemployment in 1990	Unemployment in 2000	Percent Change 1990 to 2000
Non-GRIP Counties			
Clay	64	103	60.9
Macon	294	158	-46.3
Marion	288	233	-19.1
Quitman	60	82	36.7
Randolph	253	247	-2.4
Schley	152	84	-44.7
Sumter	1,226	766	-37.5
Evans	162	241	48.8
Johnson	249	260	4.4
Montgomery	231	353	52.8
Tattnall	340	591	73.8
Toombs	717	1,330	85.5
Wheeler	152	193	27.0
Wilcox	143	168	17.5
Baker	83	81	-2.4
Calhoun	117	203	73.5
Bacon	265	269	1.5
Ben Hill	464	582	25.4
Echols	52	60	15.4
Irwin	232	286	23.3
Non-GRIP Total	5,544	6,290	13.5

Note: Statistics do not include rural interstate and metropolitan counties.

South Georgia: Unemployment Rate, 1990 and 2000

<u>Area</u>	Unemployment Rate in 1990	Unemployment Rate in 2000	Change in Rate <u>1990 to 2000</u>
South Georgia Total	6.1	5.0	-1.1
GRIP Counties Stewart	9.5	6.6	-2.9
Talbot	7.6 10.0	7.3 5.9	-0.3 -4.1
Taylor Webster	9.0	3.6	-4.1 -5.4
Appling	13.8	9.4	-4.4
Dodge	6.5	4.8	-1.6
Jeff Davis	7.0	6.5	-0.5
Telfair	9.4	12.2	2.8
Wayne	7.1	6.4	-0.7
Colquitt	5.6	6.4	0.8
Decatur	5.3	3.8	-1.5
Early	6.6	8.2	1.6
Grady	5.3	6.6	1.3
Miller	3.6	5.7	2.2
Mitchell	10.8	6.5	-4.2
Seminole	4.3	5.2	0.9
Terrell	9.3	9.3	-0.1
Thomas Worth	5.3 6.6	5.1 6.6	-0.2 0.0
Atkinson	8.2	8.5	0.0
Berrien	8.0	6.0	-2.0
Brantley	9.4	6.2	-3.2
Brooks	3.9	6.1	2.2
Charlton	5.1	4.4	-0.7
Clinch	5.4	6.3	0.9
Coffee	7.9	5.7	-2.2
Lanier	5.0	6.1	1.0
Pierce	6.7	4.8	-1.9
Long	5.2	3.4	-1.7
Ware	6.6	5.9	-0.7
GRIP Total	5.9	4.7	-1.2

(continued)

Table 1-13 (Continued)

South Georgia: Unemployment Rate, 1990 and 2000

<u>Area</u>	Unemployment Rate in 1990	Unemployment Rate in 2000	Change in Rate <u>1990 to 2000</u>
Non-GRIP Counties			
Clay	5.1	7.1	2.0
Macon	14.8	4.8	-10.0
Marion	8.1	5.4	-2.7
Quitman	7.4	6.1	-1.2
Randolph	8.9	8.4	-0.5
Schley	10.0	4.6	-5.4
Sumter	9.8	5.4	-4.4
Evans	4.4	4.8	0.4
Johnson	7.2	7.9	0.7
Montgomery	7.4	10.3	2.9
Tattnall	5.2	8.7	3.5
Toombs	7.1	11.8	4.7
Wheeler	8.0	11.0	3.0
Wilcox	5.2	5.4	0.1
Baker	5.5	5.3	-0.3
Calhoun	5.9	9.0	3.0
Bacon	6.4	6.6	0.2
Ben Hill	6.8	6.7	-0.1
Echols	5.3	4.9	-0.4
Irwin	6.3	6.2	-0.1
Non-GRIP Total	7.4	7.3	-0.1

Note: Statistics do not include rural interstate and metropolitan counties.

Middle Georgia: Population Statistics, 1990 and 2000

<u>Area</u>	Census Population in 1990	Census Population in 2000	Percent Change 1990 to 2000
Middle Georgia Total	294,214	331,519	12.7
GRIP Counties Pike Upson Pulaski Jefferson Jenkins Washington GRIP Total	10,224 26,300 8,108 17,408 8,247 19,112 89,399	13,688 27,597 9,588 17,266 8,575 21,176 97,890	33.9 4.9 18.3 -0.8 4.0 10.8 9.5
Non-GRIP Counties Heard Meriwether Elbert Jasper Oglethorpe Baldwin Crawford Putnam Wilkinson Burke Glascock Hancock Lincoln Screven Wilkes Non-GRIP Total	8,628 22,411 18,949 8,453 9,763 39,530 8,991 14,137 10,228 20,579 2,357 8,908 7,442 13,842 10,597 204,815	$\begin{array}{c} 11,012\\ 22,534\\ 20,511\\ 11,426\\ 12,635\\ 44,700\\ 12,495\\ 18,812\\ 10,220\\ 22,243\\ 2,556\\ 10,076\\ 8,348\\ 15,374\\ 10,687\\ 233,629 \end{array}$	$\begin{array}{c} 27.6\\ 0.5\\ 8.2\\ 35.2\\ 29.4\\ 13.1\\ 39.0\\ 33.1\\ -0.1\\ 8.1\\ 8.4\\ 13.1\\ 12.2\\ 11.1\\ 0.8\\ 14.1\end{array}$

Note: Statistics do not include rural interstate and metropolitan counties.

Source: Selig Center for Economic Growth, Terry College of Business, University of Georgia, based on data obtained from the U.S. Census Bureau.

Middle Georgia: Total Personal Income Statistics, 1990 and 2000

<u>Area</u>	Total Personal Income In 1990 <u>(thousands of dollars)</u>	Total Personal Income in 2000 <u>(thousands of dollars)</u>	Percent Change <u>1990 to 2000</u>
Middle Georgia Total	3,917,924	6,665,879	70.1
GRIP Counties			
Pike	146,763	279,440	90.4
Upson	346,387	562,266	62.3
Pulaski	115,021	200,842	74.6
Jefferson	211,468	332,308	57.1
Jenkins	94,172	157,089	66.8
Washington	283,870	473,902	66.9
GRIP Total	1,197,681	2,005,847	67.5
Non-GRIP Counties			
Heard	99,786	187,957	88.4
Meriwether	255,581	464,934	81.9
Elbert	261,418	430,849	64.8
Jasper	117,653	242,756	106.3
Oglethorpe	135,300	248,438	83.6
Baldwin	578,147	920,149	59.2
Crawford	114,072	208,991	83.2
Putnam	209,530	419,492	100.2
Wilkinson	144,022	225,641	56.7
Burke	237,508	417,062	75.6
Glascock	31,905	51,578	61.7
Hancock	97,770	157,734	61.3
Lincoln	99,082	167,424	69.0
Screven	181,200	282,887	56.1
Wilkes	157,269	234,140	48.9
Non-GRIP Total	2,720,243	4,660,032	71.3

Note: Statistics do not include rural interstate and metropolitan counties.

Source: Selig Center for Economic Growth, Terry College of Business, University of Georgia, based on data obtained from the U.S. Bureau of Economic Analysis.
Middle Georgia: Labor Force Statistics, 1990 and 2000

<u>Area</u>	Labor Force in 1990	Labor Force in 2000	Percent Change <u>1990 to 2000</u>
Middle Georgia Total	132,597	145,343	9.6
GRIP Counties			
Pike	5,016	6,479	29.2
Upson	12,439	12,274	-1.3
Pulaski	3,615	4,628	28.0
Jefferson	7,510	7,279	-3.1
Jenkins	3,571	4,594	28.6
Washington	8,538	9,673	13.3
GRIP Total	40,689	44,927	10.4
Non-GRIP Counties			
Heard	3,976	4,968	24.9
Meriwether	9,562	9,011	-5.8
Elbert	8,982	9,111	1.4
Jasper	3,850	5,002	29.9
Oglethorpe	5,171	6,423	24.2
Baldwin	16,856	17,228	2.2
Crawford	4,299	6,014	39.9
Putnam	6,858	9,852	43.7
Wilkinson	4,646	4,640	-0.1
Burke	8,696	9,051	4.1
Glascock	1,123	988	-12.0
Hancock	3,637	3,856	6.0
Lincoln	3,308	3,132	-5.3
Screven	6,081	5,806	-4.5
Wilkes	4,863	5,334	9.7
Non-GRIP Total	91,908	100,416	9.3

Note: Statistics do not include rural interstate and metropolitan counties.

Middle Georgia: Employment Statistics, 1990 and 2000

<u>Area</u>	Employment <u>in 1990</u>	Employment in 2000	Percent Change <u>1990 to 2000</u>
Middle Georgia Total	124,065	136,963	10.4
GRIP Counties			
Pike	4,734	6,192	30.8
Upson	11,720	11,478	-2.1
Pulaski	3,404	4,428	30.1
Jefferson	6,897	6,600	-4.3
Jenkins	3,214	4,317	34.3
Washington	8,030	9,178	14.3
GRIP Total	37,999	42,193	11.0
Non-GRIP Counties			
Heard	3,767	4,704	24.9
Meriwether	8,840	8,448	-4.4
Elbert	8,236	8,402	2.0
Jasper	3,620	4,809	32.8
Oglethorpe	4,861	6,259	28.8
Baldwin	16,142	16,410	1.7
Crawford	4,006	5,763	43.9
Putnam	6,624	9,544	44.1
Wilkinson	4,459	4,399	-1.3
Burke	7,745	8,346	7.8
Glascock	1,056	943	-10.7
Hancock	3,401	3,476	2.2
Lincoln	3,115	2,840	-8.8
Screven	5,598	5,396	-3.6
Wilkes	4,596	5,031	9.5
Non-GRIP Total	86,066	94,770	10.1

Note: Statistics do not include rural interstate and metropolitan counties.

Middle Georgia: Unemployment Statistics, 1990 and 2000

<u>Area</u>	Unemployment in 1990	Unemployment in 2000	Percent Change <u>1990 to 2000</u>
Middle Georgia Total	8,532	8,380	-1.8
GRIP Counties			
Pike	282	287	1.8
Upson	719	796	10.7
Pulaski	211	200	-5.2
Jefferson	613	679	10.8
Jenkins	357	277	-22.4
Washington	508	495	-2.6
GRIP Total	2,690	2,734	1.6
Non-GRIP Counties			
Heard y	209	264	26.3
Meriwether	722	563	-22.0
Elbert	746	709	-5.0
Jasper	230	193	-16.1
Oglethorpe	310	164	-47.1
Baldwin	714	818	14.6
Crawford	293	251	-14.3
Putnam	234	308	31.6
Wilkinson	187	241	28.9
Burke	951	705	-25.9
Glascock	67	45	-32.8
Hancock	236	380	61.0
Lincoln	193	292	51.3
Screven	483	410	-15.1
Wilkes	267	303	13.5
Non-GRIP Total	5,842	5,646	-3.4

Note: Statistics do not include rural interstate and metropolitan counties.

Middle Georgia: Unemployment Rate, 1990 and 2000

<u>Area</u>	Unemployment Rate in 1990	Unemployment Rate in 2000	Change in Rate <u>1990 to 2000</u>
Middle Georgia Total	6.9	6.1	-0.8
GRIP Counties			
Pike	6.0	4.6	-1.3
Upson	6.1	6.9	0.8
Pulaski	6.2	4.5	-1.7
Jefferson	8.9	10.3	1.4
Jenkins	11.1	6.4	-4.7
Washington	6.3	5.4	-0.9
GRIP Total	7.1	6.5	-0.6
Non-GRIP Counties			
Heard	5.5	5.6	0.1
Meriwether	8.2	6.7	-1.5
Elbert	9.1	8.4	-0.6
Jasper	6.4	4.0	-2.3
Oglethorpe	6.4	2.6	-3.8
Baldwin	4.4	5.0	0.6
Crawford	7.3	4.4	-3.0
Putnam	3.5	3.2	-0.3
Wilkinson	4.2	5.5	1.3
Burke	12.3	8.4	-3.8
Glascock	6.3	4.8	-1.6
Hancock	6.9	10.9	4.0
Lincoln	6.2	10.3	4.1
Screven	8.6	7.6	-1.0
Wilkes	5.8	6.0	0.2
Non-GRIP Total	6.8	6.0	-0.8

Note: Statistics do not include rural interstate and metropolitan counties.

North Georgia: Population Statistics, 1990 and 2000

<u>Area</u>	Census Population <u>in 1990</u>	Census Population <u>in 2000</u>	Percent Change <u>1990 to 2000</u>
North Georgia Total	311,096	393,876	26.6
GRIP Counties Fannin Floyd Gilmer Polk Habersham Stephens Union	15,992 81,251 13,368 33,815 27,621 23,257 11,993	19,798 90,565 23,456 38,127 35,902 25,435 17,289	23.8 11.5 75.5 12.8 30.0 9.4 44.2
GRIP Total	207,297	250,572	20.9
Non-GRIP Counties Chattooga Murray Dawson Lumpkin Rabun Towns White Non-GRIP Total	22,242 26,147 9,429 14,573 11,648 6,754 13,006 103,799	25,470 36,506 15,999 21,016 15,050 9,319 19,944 143,304	14.5 39.6 69.7 44.2 29.2 38.0 53.3 38.1

Note: Statistics do not include rural interstate and metropolitan counties.

Source: Selig Center for Economic Growth, Terry College of Business, University of Georgia, based on data obtained from the U.S. Census Bureau.

North Georgia: Total Personal Income Statistics, 1990 and 2000

Area	Total Personal Income in1990 (thousands of dollars)	Total Personal Income in 2000 (thousands of dollars)	Percent Change 1990 to 2000
North Georgia Total	4,485,009	8,453,668	88.5
GRIP Counties			
Fannin	194,662	381,297	95.9
Floyd	1,317,071	2,168,609	64.7
Gilmer	196,978	411,592	109.0
Polk	449,665	774,251	72.2
Habersham	417,047	793,761	90.3
Stephens	334,921	568,404	69.7
Union	154,147	371,084	140.7
GRIP Total	3,064,491	5,468,998	78.5
Non-GRIP Counties			
Chattooga	285,892	467,795	63.6
Murray	334,868	661,902	97.7
Dawson	142,270	414,830	191.6
Lumpkin	204,979	471,694	130.1
Rabun	156,763	324,371	106.9
Towns	90,479	207,144	128.9
White	205,267	436,934	112.9
Non-GRIP Total	1,420,518	2,984,670	110.1

Note: Statistics do not include rural interstate and metropolitan counties.

Source: Selig Center for Economic Growth, Terry College of Business, University of Georgia, based on data obtained from the U.S. Bureau of Economic Analysis.

North Georgia: Labor Force Statistics, 1990 and 2000

<u>Area</u>	Labor Force in 1990	Labor Force in 2000	Percent Change 1990 to 2000
North Georgia Total	156,966	188,983	20.4
GRIP Counties	0.000	0.440	04.4
Fannin	6,980	9,148	31.1
Floyd	42,368	44,526	5.1
Gilmer	6,658	8,267	24.2
Polk	16,561	16,533	-0.2
Habersham	14,129	15,853	12.2
Stephens	11,980	11,661	-2.7
Union	5,194	8,007	54.2
GRIP Total	103,870	113,995	9.7
Non-GRIP Counties			
Chattooga	10,741	11,705	9.0
Murray	14,389	20,217	40.5
Dawson	5,252	10,621	102.2
Lumpkin	7,226	11,084	53.4
Rabun	5,789	7,708	33.1
Towns	2,836	4,087	44.1
White	6,863	9,566	39.4
Non-GRIP Total	53,096	74,988	41.2

Note: Statistics do not include rural interstate and metropolitan counties.

North Georgia: Employment Statistics, 1990 and 2000

<u>Area</u>	Employment in 1990	Employment in 2000	Percent Change in Employment
North Georgia Total	145,639	182,648	25.4
GRIP Counties Fannin Floyd Gilmer	6,431 39,067 6,161	8,862 42,899 7,994	37.8 9.8 29.8
Polk Habersham Stephens Union GRIP Total	14,711 13,387 11,095 4,956 95,808	15,798 15,317 11,233 7,739 109,842	7.4 14.4 1.2 56.2 14.6
Non-GRIP Counties Chattooga Murray Dawson Lumpkin Rabun Towns White Non-GRIP Total	9,937 13,382 4,983 6,854 5,484 2,652 6,539 49,831	11,333 19,457 10,398 10,886 7,572 3,939 9,221 72,806	14.0 45.4 108.7 58.8 38.1 48.5 41.0 46.1

Note: Statistics do not include rural interstate and metropolitan counties.

North Georgia: Unemployment Statistics, 1990 and 2000

Area	Unemployment <u>in 1990</u>	Unemployment in 2000	Percent Change 1990 to 2000
North Georgia Total	11,327	6,335	-44.1
GRIP Counties Fannin Floyd Gilmer Polk Habersham Stephens Union GRIP Total	549 3,301 497 1,850 742 885 238 8,062	286 1,627 273 735 536 428 268 4,153	-47.9 -50.7 -45.1 -60.3 -27.8 -51.6 12.6 -48.5
Non-GRIP Counties Chattooga Murray Dawson Lumpkin Rabun Towns White Non-GRIP Total	804 1,007 269 372 305 184 324 3,265	372 760 223 198 136 148 345 2,182	-53.7 -24.5 -17.1 -46.8 -55.4 -19.6 6.5 -33.2

Note: Statistics do not include rural interstate and metropolitan counties.

North Georgia: Unemployment Rate, 1990 and 2000

<u>Area</u>	Unemployment Rate <u>in 1990</u>	Unemployment Rate in 2000	Change in Rate <u>1990 to 2000</u>
North Georgia Total	7.8	3.5	-4.3
GRIP Counties Fannin Floyd Gilmer Polk Habersham Stephens Union GRIP Total	8.5 8.4 8.1 12.6 5.5 8.0 4.8 8.4	3.2 3.8 3.4 4.7 3.5 3.8 3.5 3.8 3.5 3.8	-5.3 -4.7 -4.7 -7.9 -2.0 -4.2 -1.3 -4.6
Non-GRIP Counties Chattooga Murray Dawson Lumpkin Rabun Towns White Non-GRIP Total	8.1 7.5 5.4 5.4 5.6 6.9 5.0 6.6	3.3 3.9 2.1 1.8 1.8 3.8 3.7 3.0	-4.8 -3.6 -3.3 -3.6 -3.8 -3.2 -1.2 -3.6

Note: Statistics do not include rural interstate and metropolitan counties.

Rural Interstate Counties: Population Statistics, 1990 and 2000

<u>Area</u>	Census Population <u>in 1990</u>	Census Population in 2000	Percent Change 1990 to 2000
Rural Interstate Total	880,204	1,069,933	21.6
GRIP Counties			
Banks	10,308	14,422	39.9
Bulloch	43,125	55,983	29.8
Glynn	62,496	67,568	8.1
Haralson	21,966	25,690	17.0
Jackson	30,005	41,589	38.6
Liberty	52,745	61,610	16.8
Lowndes	75,981	92,115	21.2
Troup	55,536	58,779	5.8
GRIP Total	352,162	417,756	18.6
Non-GRIP Counties			
Bleckley	10,430	11,666	11.9
Butts	15,326	19,522	27.4
Camden	30,167	43,664	44.7
Candler	7,744	9,577	23.7
Cook	13,456	15,771	17.2
Crisp	20,011	21,996	9.9
Dooly	9,901	11,525	16.4
Emanuel	20,546	21,837	6.3
Franklin	16,650	20,285	21.8
Gordon	35,072	44,104	25.8
Greene	11,793	14,406	22.2
Hall	95,428	139,277	45.9
Hart	19,712	22,997	16.7
Lamar	13,038	15,912	22.0
Laurens	39,988	44,874	12.2
McIntosh	8,634	10,847	25.6
Monroe	17,113	21,757	27.1
Morgan	12,883	15,457	20.0
Taliaferro	1,915	2,077	8.5
Tift	34,998	38,407	9.7
Treutlen	5,994	6,854	14.3
Turner	8,703	9,504	9.2
Warren	6,078	6,336	4.2
Whitfield	72,462	83,525	15.3
Non-GRIP Total	528,042	652,177	23.5

Source: Selig Center for Economic Growth, Terry College of Business, University of Georgia, based on data obtained from the U.S. Census Bureau.

Rural Interstate Counties: Total Personal Income Statistics, 1990 and 2000

Area	Total Personal Income in 1990 <u>(thousands of dollars)</u>	Total Personal Income in 2000 <u>(thousands of dollars)</u>	Percent Change 1990 to 2000
Rural Interstate Total	12,894,438	23,933,718	85.6
GRIP Counties			
Banks	141,733	273,507	93.0
Bulloch	551,096	1,040,279	88.8
Glynn	1,123,828	1,996,228	77.6
Haralson	296,313	532,205	79.6
Jackson	436,719	931,421	113.3
Liberty	549,858	1,012,939	84.2
Lowndes	1,118,465	2,005,485	79.3
Troup	871,196	1,551,031	78.0
GRIP Total	5,089,208	9,343,095	83.6
Non-GRIP Counties			
Bleckley	147,119	260,654	77.2
Butts	197,679	402,311	103.5
Camden	434,111	832,477	91.8
Candler	109,607	190,137	73.5
Cook	156,221	292,265	87.1
Crisp	263,791	429,135	62.7
Dooly	119,988	215,047	79.2
Emanuel	249,948	407,560	63.1
Franklin	251,732	453,797	80.3
Gordon	523,974	968,675	84.9
Greene	156,019	304,997	95.5
Hall	1,603,067	3,452,490	115.4
Hart	283,640	498,471	75.7
Lamar	166,986	292,399	75.1
Laurens	575,702	970,995	68.7
McIntosh	95,319	176,831	85.5
Monroe	252,492	442,299	75.2
Morgan	198,008	392,892	98.4
Taliaferro Tift	23,729	32,672	37.7 74.0
Treutlen	504,803	878,351	
Turner	64,419 104,899	102,037 167,422	58.4 59.6
Warren	69,137	167,422 111,657	59.6 61.5
Whitfield	1,252,840	2,315,052	84.8
Non-GRIP Total	7,805,230	14,590,623	86.9

Source: Selig Center for Economic Growth, Terry College of Business, University of Georgia, based on data obtained from the U.S. Bureau of Economic Analysis.

Rural Interstate Counties: Labor Force Statistics, 1990 and 2000

Area	Labor Force <u>in 1990</u>	Labor Force in 2000	Percent Change 1990 to 2000
Rural Interstate Total	423,241	525,969	24.3
GRIP Counties			
Banks	5,593	6,539	16.9
Bulloch	19,678	27,024	37.3
Glynn	30,609	35,921	17.4
Haralson	10,446	9,784	-6.3
Jackson	15,120	23,175	53.3
Liberty	13,925	18,522	33.0
Lowndes	34,115	44,201	29.6
Troup	26,425	31,438	19.0
GRIP Total	155,911	196,604	26.1
Non-GRIP Counties			
Bleckley	4,915	5,925	20.5
Butts	6,489	9,074	39.8
Camden	11,606	16,883	45.5
Candler	3,502	3,944	12.6
Cook	6,369	8,067	26.7
Crisp	8,701	9,625	10.6
Dooly	3,983	4,542	14.0
Emanuel	8,925	8,598	-3.7
Franklin	8,292	10,581	27.6
Gordon	19,042	22,267	16.9
Greene	5,218	5,938	13.8
Hall	52,773	75,560	43.2
Hart	9,764	9,976	2.2
Lamar	6,179	6,525	5.6
Laurens	18,557	22,633	22.0
McIntosh	11,255	13,726	22.0
Monroe	8,258	8,344	1.0
Morgan	6,417 756	7,516	17.1 -3.0
Taliaferro		733	
Tift Treutlen	17,703	21,004 2,814	18.6 5.0
Turner	2,680 3,551	4,142	5.0 16.6
Warren	2,578	2,767	7.3
Whitfield	39,817	48,181	21.0
Non-GRIP Total	267,330	329,365	23.2

Rural Interstate Counties: Employment Statistics, 1990 and 2000

<u>Area</u>	Employment <u>in 1990</u>	Employment <u>in 2000</u>	Percent Change <u>1990 to 2000</u>
Rural Interstate Total	397,500	504,272	26.9
GRIP Counties			
Banks	5,291	6,336	19.8
Bulloch	18,631	26,281	41.1
Glynn	29,266	34,658	18.4
Haralson	9,708	9,345	-3.7
Jackson	14,152	22,558	59.4
Liberty	12,954	17,444	34.7
Lowndes	32,486	41,751	28.5
Troup	24,786	30,174	21.7
GRIP Total	147,274	188,547	28.0
Non-GRIP Counties			
Bleckley	4,625	5,704	23.3
Butts	6,047	8,596	42.2
Camden	10,980	16,286	48.3
Candler	3,324	3,742	12.6
Cook	5,957	7,637	28.2
Crisp	8,091	9,031	11.6
Dooly	3,733	4,248	13.8
Emanuel	8,091	7,767	-4.0
Franklin	7,622	10,211	34.0
Gordon	17,553	21,416	22.0
Greene	4,857	5,584	15.0
Hall	49,822	73,824	48.2
Hart	9,150	9,537	4.2
Lamar	5,850	6,096	4.2
Laurens	17,542	21,305	21.5
McIntosh	10,459	13,365	27.8
Monroe	7,732	7,907	2.3
Morgan	5,952	7,207	21.1 -3.6
Taliaferro Tift	715 16,395	689	-3.0 22.3
Treutlen		20,049	22.5
Turner	2,475 3,269	2,538 3,767	2.5 15.2
Warren	2,356	2,574	9.3
Whitfield	37,629	46,645	9.3 24.0
Non-GRIP Total	250,226	315,725	24.0
	200,220	0.0,720	20.2

Rural Interstate Counties: Unemployment Statistics, 1990 and 2000

Area	Unemployment in 1990	Unemployment in 2000	Percent Change 1990 to 2000
Rural Interstate Total	25,741	21,697	-15.7
GRIP Counties			
Banks	302	203	-32.8
Bulloch	1,047	743	-29.0
Glynn	1,343	1,263	-6.0
Haralson	738	439	-40.5
Jackson	968	617	-36.3
Liberty	971	1,078	11.0
Lowndes	1,629	2,450	50.4
Troup	1,639	1,264	-22.9
GRIP Total	8,637	8,057	-6.7
Non-GRIP Counties			
Bleckley	290	221	-23.8
Butts	442	478	8.1
Camden	626	597	-4.6
Candler	178	202	13.5
Cook	412	430	4.4
Crisp	610	594	-2.6
Dooly	250	294	17.6
Emanuel	834	831	-0.4
Franklin	670	370	-44.8
Gordon	1,489	851	-42.8
Greene	361	354	-1.9
Hall	2,951	1,736	-41.2
Hart	614	439	-28.5
Lamar	329	429	30.4
Laurens	1,015	1,328	30.8
McIntosh	796	361	-54.6
Monroe	526	437	-16.9
Morgan	465	309	-33.5
Taliaferro	41	44	7.3
Tift	1,308	955	-27.0
Treutlen	205	276	34.6
Turner	282	375	33.0
Warren	222	193	-13.1
Whitfield	2,188	1,536	-29.8
Non-GRIP Total	17,104	13,640	-20.3

Rural Interstate Counties: Unemployment Rate,
1990 and 2000

Area	Unemployment Rate in 1990	Unemployment Rate in 2000	Change in Rate <u>1990 to 2000</u>
Rural Interstate Total	6.5	4.3	-2.2
GRIP Counties			
Banks	5.7	3.2	-2.5
Bulloch	5.6	2.8	-2.8
Glynn	4.6	3.6	-0.9
Haralson	7.6	4.7	-2.9
Jackson	6.8	2.7	-4.1
Liberty	7.5	6.2	-1.3
Lowndes	5.0	5.9	0.9
Troup	6.6	4.2	-2.4
GRIP Total	5.9	4.3	-1.6
Non-GRIP Counties			
Bleckley	6.3	3.9	-2.4
Butts	7.3	5.6	-1.7
Camden	5.7	3.7	-2.0
Candler	5.4	5.4	0.0
Cook	6.9	5.6	-1.3
Crisp	7.5	6.6	-1.0
Dooly	6.7	6.9	0.2
Emanuel	10.3	10.7	0.4
Franklin	8.8	3.6	-5.2
Gordon	8.5	4.0	-4.5
Greene	7.4	6.3	-1.1
Hall	5.9	2.4	-3.6
Hart	6.7	4.6	-2.1
Lamar	5.6	7.0	1.4
Laurens	5.8	6.2	0.4
McIntosh	7.6	2.7	-4.9
Monroe	6.8	5.5	-1.3
Morgan	7.8	4.3	-3.5
Taliaferro	5.7	6.4	0.7
Tift	8.0	4.8	-3.2
Treutlen	8.3	10.9	2.6
Turner	8.6	10.0	1.3
Warren	9.4	7.5	-1.9
Whitfield	5.8	3.3	-2.5
Non-GRIP Total	6.8	4.3	-2.5

APPENDIX II







Source: Selig Center for Economic Growth, Terry College of Business, The University of Georgia.

FIGURE 2-2

HOW MULTIPLIERS CAPTURE THE IMPACT OF RE-SPENDING INITIAL IMPACTS IF THE OUTPUT MULTIPLIER EQUALS 2.0



*Leakage indicates amounts spent outside area and not re-circulated locally.

Source: The University of Georgia, Selig Center for Economic Growth, Terry College of Business.

Local Outlays for Representative GRIP Projects

Area/Project	Total Cost	Local Outlays	Local Outlays
Expense Category	(current dollars)	(current dollars)	<u>(\$ 1999)</u>
Wilkinson County Project ID: 221760	26,546,655	23,331,990	23,029,105
Engineering	700,000	70,000	80,786
Right-of-Way	3,924,000	3,531,600	3,759,694
Construction	21,922,655	19,730,390	19,188,625
Stewart County Project ID: 322140	13,753,609	12,259,359	12,295,282
Engineering	132,099	0	0
Right-of-Way	2,153,079	1,937,771	2,037,031
Construction	11,468,431	10,321,588	10,258,251
Wayne County Project ID: 522430	12,356,000	10,839,600	10,539,004
Engineering	351,000	35,100	38,521
Right-of-Way	1,227,000	1,104,300	1,129,130
Construction	10,778,000	9,700,200	9,371,353

Total Economic Impact on Output of Representative GRIP Projects^{1,2}

Area/Project Expense Category	Local Outlays (<u>\$ 1999)</u>	Indirect and Induced Impact <u>(\$ 1999)</u>	Total Output Impact <u>(\$ 1999)</u>
Wilkinson County Project ID: 221760	23,029,105	4,887,956	27,917,058
Engineering Right-of-Way Construction	80,786 3,759,694 19,188,625	18,209 699,445 4,170,302	98,995 4,459,139 23,358,924
Stewart County Project ID: 322140	12,295,282	1,904,338	14,169,619
Engineering Right-of-Way Construction	0 2,037,031 10,258,251	0 255,183 1,649,155	0 2,262,214 11,907,405
Wayne County Project ID: 522430	10,539,004	2,768,170	13,307,173
Engineering Right-of-Way Construction	38,521 1,129,130 9,371,353	13,845 285,089 2,469,236	52,366 1,414,218 11,840,589

¹ The impacts on output are estimated using the IMPLAN system, Version 2.0.1020 and Type SAM multipliers.

² Output refers to the value of total production, including domestic and foreign trade.

Total Economic Impact on Value-Added^{1,2,3,4} Labor Income, and Employment of Representative GRIP Projects

Area/Project Expense/Category	Local Outlays (<u>\$1999)</u>	Economic Impact on Value Added <u>(\$ 1999)</u>	Economic Impact on Labor Income <u>(\$ 1999)</u>	
Wilkinson County Project ID: 221760	23,029,105	11,657,050	7,595,231	280.9
Engineering Right-of-Way Construction	80,786 3,759,694 19,188,625	37,032 3,005,960 8,614,058	31,758 715,309 6,848,164	1.4 30.8 248.7
Stewart County Project ID: 322140	12,295,282	5,785,996	3,659,898	146.0
Engineering Right-of-Way Construction	0 2,037,031 10,258,251	0 1,586,321 4,199,675	0 347,198 3,312,700	0.0 15.3 130.7
Wayne County Project ID: 522430	10,539,004	5,629,493	3,873,027	143.4
Engineering Right-of-Way Construction	38,521 1,129,130 9,371,353	19,904 954,483 4,655,106	16,478 242,090 3,614,459	0.8 12.4 130.2

¹ The impacts on value added, labor income, and employment are estimated using the IMPLAN System, Version 2.0.1020 and Type SAM multipliers.

² Value added includes employee compensation, proprietary income, and other property income, and indirect business taxes.

³ Labor income includes payroll costs of workers who are paid employees and payments received by self-employed individuals.

⁴ Employment includes full-time and part-time jobs.

Output, Value Added, and Labor Income Per Dollar Spent for Representative GRIP Projects

Area/Project Expense Category	Output Impact per Dollar Spent <u>(\$ 1999)</u>	Value Added per Dollar Spent <u>(\$ 1999)</u>	Labor Income per Dollar Spent <u>(\$ 1999)</u>
Wilkinson County Project ID: 221760	1.21	0.51	0.33
Engineering Right-of-Way Construction	1.23 1.19 1.22	0.46 0.80 0.45	0.39 0.19 0.36
Stewart County Project ID: 322140	1.15	0.47	0.30
Engineering Right-of-Way Construction	0.00 1.11 1.16	0.00 0.78 0.41	0.00 0.17 0.32
Wayne County Project ID: 522430	1.26	0.53	0.37
Engineering Right-of-Way Construction	1.36 1.25 1.26	0.52 0.85 0.50	0.43 0.21 0.39

Jobs Created per \$1,000,000 in Spending for Representative GRIP Projects

Area/Project	Jobs per \$1,000,000
Expense Category	<u>in Spending</u>
Wilkinson County Project ID: 221760	12.2
Engineering	17.3
Right-of-Way	8.2
Construction	13.0
Stewart County Project ID: 322140	11.9
Engineering	0.0
Right-of-Way	7.5
Construction	12.7
Wayne County Project ID: 522430	13.6
Engineering	20.8
Right-of-Way	11.0
Construction	13.9

Total Employment Impact By Impacted Industry of Local Outlays for Representative GRIP Projects

Industry	Wilkinson County Project ID: 221760	Stewart County Project ID: 322140	Wayne County Project ID: 522430
Aggregation ¹	<u>(jobs)</u>	<u>(jobs)</u>	<u>(jobs)</u>
Agriculture	4.8	2.5	0.9
Mining	0.1	0.0	0.0
Construction	192.5	105.8	91.6
Manufacturing	0.7	0.2	0.8
TCPU	11.4	4.2	6.9
Trade	13.7	8.6	16.6
FIRE	25.3	15.8	11.5
Services	29.3	8.3	13.5
Government	1.4	0.6	0.7
Other	1.4	0.1	0.7
Total	280.9	146.0	143.4

- ¹ TCPU refers to transportation, communications, and public utilities. Trade refers to wholesale and retail trade. FIRE refers to finance, insurance, and real estate.
- Source: Selig Center for Economic Growth, Terry College of Business, University of Georgia, based on current dollar cost data provided by the Georgia Department of Transportation.

APPENDIX III

Figures 3-1 through 3-5 represent manufacturing establishments located within a sixmile radius from U.S. Highway 441, the Fall Line Freeway, U.S. Highway 19, and the South Georgia Parkway, respectively. Only rural areas-- i.e., areas that do not include metropolitan counties-- are included. The six-mile radius is marked in gray. For printing purposes, U.S. Highway 441 has been divided into two parts: North and South. The maps were created with the Georgia 2000 Information System mapping software, based on data from the Georgia Manufacturing Register.



Figure 3-1 Manufacturing Establishments Within 6-Mile Radius From U.S. Highway 441 (North)

Source: Georgia 2000 Information System; Selig Center for Economic Growth, Terry College of Business, The University of Georgia.



Figure 3-2 Manufacturing Establishments Within 6-Mile Radius

Source: Georgia 2000 Information System; Selig Center for Economic Growth, Terry College of Business, The University of Georgia.

Figure 3-3 Manufacturing Establishments Within 6-Mile Radius From the Fall Line Freeway



Source: Georgia 2000 Information System; Selig Center for Economic Growth, Terry College of Business, The University of Georgia.



Figure 3-4 Manufacturing Establishments Within 6-Mile Radius From U.S. Highway 19

Source: Georgia 2000 Information System; Selig Center for Economic Growth, Terry College of Business, The University of Georgia.

Figure 3-5 Manufacturing Establishments Within 6-Mile Radius From the South Georgia Parkway



Source: Georgia 2000 Information System; Selig Center for Economic Growth, Terry College of Business, The University of Georgia.

Table 3-1

Manufacturing Establishments Located Within 6-Mile Radius From U.S. Highway 441

Company	City	Product	Total Employees
Atkinson County			
Cady Industries, Inc.	Pearson	Open Mesh Bags	500
Fleetwood Eagletrace II ¹	Pearson	Manufactured Housing	191
Atkinson Co. Citizen	Pearson	Newspaper Publishing	2
Willacoochee Industrial Fabrics ¹	Willacoochee	Woven Polypropylene Fabric	44
Fleetwood Homes of Georgia, Inc. ¹	Willacoochee	Manufactured Housing Atkinson Total	200 937
Baldwin County			
Bass Signal Corporation ²	Milledgeville	Traffic Lights	16
Concord Fabrics, Inc. ²	Milledgeville	Double Knit	280
Curly Shavings ²	Milledgeville	Architectural Woodwork	2
Duckworth Farm Supply, Inc. ²	Milledgeville	Cattle Feed	6
Fowler-Flemister Concrete, Inc. ²	Milledgeville	Ready-Mixed Concrete	23
Glasrite, Inc. ²	Milledgeville	Fiberglass Insulation	17
Hattaway Screen Printing ²	Milledgeville	Apparel Screen Printing	5
Heritage Printing, Inc. ²	Milledgeville	Commercial Printing	5
Innovative Packaging ²	Milledgeville	Corrugated Boxes	30
Rheem Manufacturing Co. ²	Milledgeville	Air Conditioning Units	1,050
Ryals Bakery ²	Milledgeville	Cakes	8
Shaw Industries, Inc. ²	Milledgeville	Carpet Yarns	231
Specialty Lumber Supply ²	Milledgeville	Heart Pine Flooring	9
Studio Designs Printing, Inc. ²	Milledgeville	Offset Printing	9
T & S Hardwoods, Inc. ²	Milledgeville	Hardwood Rough Lumber	94
The Print Shop ²	Milledgeville	Signs Baldwin Total	2 1,787
Banks County			-,
Mount Vernon Mills	Alto	Industrial Laundry Goods	454
Fieldale Farms Corp. Craven Pottery, Inc.	Baldwin Commerce	Poultry Feeds Terra Cotta Pottery	165 53
Martin Marietta Aggregates	Homer	Crushed Stone	14
Wilson Pottery, Inc.	Lula	Baskets	8
Jordans Machine Shop	Lula	Machine Shop Job Work	4 8
Browning Metal Plating	Maysville	Metal Plating Banks Total	706
Clinch County			
Ashley Logging Inc.	Homerville	Logging	6
Smurfit-Stone Container Corporation Clinch County News	Homerville Homerville	Cypress Lumber Newspaper Printing	27 3
Lee Container Corp.	Homerville	Plastic Bottles	155
BWAY Corporation	Homerville	Metal Containers & Cans	2,048
Hendleys Machine Shop	Homerville	Machine Shop Clinch Total	4 2,243
			(continued)
			,

Table 3-1 (continued)

Manufacturing Establishments Located Within 6-Mile Radius From U.S. Highway 441

Company	City	Product	Total Employees
Coffee County			
Cargo Craft, Inc.	Ambrose	All Durnoso Cargo Trailors	32
D & J Pallets	Broxton	All Purpose Cargo Trailers Wood Pallets	9
Gold Kist Poultry So. GA Division	Douglas	Whole Poultry & Parts	1,250
Professional Formulators	Douglas	Animal Vitamin Premixes	1,230
Holts Bakery, Inc.	Douglas	Cakes	39
Splendid Treatments/Smith Designs	Douglas	Drapes	4
Tanner Pulpwood Co., Inc.	Douglas	Logs & Pulpwood	11
Westfield Homes, Inc.	Douglas	Mobile Homes	155
Douglas Enterprise	Douglas	Newspaper Printing/Publishing	18
Coffee County News & Shopper, Inc.	Douglas		13
Community Newspapers Holdings Inc.	Douglas	Commercial Printing Circulars	13
McElroy Printing Co.	Douglas	Commercial Printing	5
Print Shoppe	Douglas	Commercial Printing	5
South Ga. Business Products	Douglas	Commercial Printing	9
Douglas Fertilizer Co., Inc.	Douglas	Fertilizer Blending	5
S E S Industries Inc.	Douglas	Water Treatment Chemicals	22
Douglas Asphalt Co.	Douglas	Plant Mix Asphalt	310
Lott Builders Supply Co.	Douglas	Concrete Mixed	50
Scruggs Concrete Co.	Douglas	Ready-Mixed Concrete	16
Esco Industries, Inc.	Douglas	Laminated Gypsum Board	50
MarCraft, Inc.	Douglas	Cultured Marble Tubs	100
Jackson Metals	Douglas	Processed Scrap Metal	2
Elixir Industries, Division 27	Douglas	Aluminum Extrusions	150
Fab Tec, Inc.	Douglas	Mobile Home Frames	44
Elixir Industries, Division 24	Douglas	Mobile Home Exterior Doors	201
Beasley Campers	Douglas	Portable Buildings	3
InterMetro Industries, Inc.	Douglas	Wire Shelving	170
Fabwel, Inc.	Douglas	Metal Fabrication	100
Tecumseh Products Co.	Douglas	Exhaust Emission Engines	850
Coffee County Machine & Iron Works	Douglas	Machine Shop	5
Industrial Fabrication & Machine Co.	Douglas	Machine Shop Job Work	9
Thompson Machine Company, Inc.	Douglas	Machine Shop Job Work	20
Verlyn Enterprises, Inc.	Douglas	Grinding	16
PCC Airfoils, Inc., Douglas Div.	Douglas	Cast Turbine Airfoils-Aircraft	940
Marine Mfg. Co.	Douglas	Boats	50
Marine Mig. Co.	Douglas	Coffee Total	4,684
Dodge County			4,004
Sylvan Hardwoods, LLC	McRae	Hardwood & Cypress Lumber	72
Sylvan Hardwoods, EEO	Mertac	Dodge Total	72
Habersham County			• -
Mount Vernon Mills, Inc., Alto Yarn Div.	Alto	Yarn	240
Parr Industries, Inc.	Alto	Garden Textiles/Shade Fabrics	14
Bluegraphics	Alto	Screen Printing	5
Regency Thermographers	Alto	Thermography	175
Signs Now	Alto	Electric Safety Signs	4
Baldwin Garments, Inc.	Baldwin	Ladies Slacks	35
Nationwide Log Homes, Inc.	Baldwin	White Pine Logs	6
			-

(continued)

Table 3-1 (continued)

Manufacturing Establishments Located Within 6-Mile Radius From U.S. Highway 441

			Total
Company	City	Product	Employees
Habersham County (continued)			
Gem Chem	Baldwin	Janitorial Chemicals	10
Hettich Manufacturing	Baldwin	Drawer Slides	88
Ken-Bar Mfg. & Distributing Co.	Baldwin	Go-Karts	92
CMI Industries-Greige Fabrics Div.	Clarkesville	Polyester Curtain Fabric	223
C. P. Wilbanks, Jr. Lumber Co.	Clarkesville	Dressed Lumber, Softwood	24
Mize & Burke Lumber Co.	Clarkesville	Dressed Lumber, Softwood	12
McCollum Mfg. Co.	Clarkesville	Custom Cabinet Work	NL
Millers Furniture Manufacturing Inc.	Clarkesville	Cabinets	6
All Service & Associates Printing	Clarkesville	Commercial Printing	7
Bob & Teds Trophy Shop	Clarkesville	Trophies	3
Piedmont Automotive Product, Inc.	Clarkesville	Electrical Automotive Parts	177
Fieldale Farms Corp.	Cornelia	Poultry Processing	1,348
Cornelia Mill & Feed Co., Inc.	Cornelia	Animal Feed	2
Cornelia Textiles, Inc.	Cornelia	Horticultural Shade Cloth	17
TC Baycor/RTCUSA	Cornelia	Synthetic Woven Textiles	300
Short Mfg. Co.	Cornelia	Children's Flotation Swimwear	20
Shade Tree	Cornelia	Fabric Shade Covers	26
American Bag & Linen Co.	Cornelia	Aprons	20
Georgia Mountain Timber Co., Inc.	Cornelia	Lumber	10
Irvin Lumber Co., Inc.	Cornelia	Yellow Pine Lumber	20
Schnadig Corporation	Cornelia	Upholstered Sofa Frames	63
Condor Industries, Inc.	Cornelia	Portable Storage/Office Bldgs.	6
Northeast Georgian Publishing Co.	Cornelia	Newspaper Publishing	26
Habersham Lithographic Printing, Inc.	Cornelia	Commercial Printing	1
Economy Glass & Upholstery, Inc.	Cornelia	Auto Glass	3
Blue Circle Materials	Cornelia	Ready-Mixed Concrete	24
Habersham Metal Products Co., Inc.	Cornelia	Steel Doors & Door Frames	195
Chattahoochee Locomotive Co., Inc.	Cornelia	Remfd. Diesel Locomotives	8
Ethicon, Inc.	Cornelia	Wound Closures	564
Cornelia Broom Co.	Cornelia	Brooms	29
Hanson Aggregates	Demorest	Crushed Stone-Granite	15
Eldco Manufacturing Inc.	Mount Airy	Contract Sewing	6
Mt. Airy Wood Preserving Co.	Mount Airy	Pressure Treated Fence Posts	5
Southern Craftsmens Guild, Inc.	Mount Airy	Household Furniture	90
Currahee Trailers, Inc.	Mount Airy	Equipment Trailers	5
Mt. Airy Machine Shop, Inc.	Mount Airy	General Machine Shop	3
Sanders Machine Shop	Mount Airy	Machine Shop	1
North Georgia Woodworks, Inc.	Тоссоа	Cabinet Doors	4
Caudell Tool & Machine	Тоссоа	Fabricated Products	6
All Metal, Inc.	Тоссоа	Textile Machine Parts	12
Jackson County		Habersham Total	3,950
Jackson County Mount Vernon Mills	Commerce	Cotton Yarns	152
Hydrotex Synthetics	Commerce	Water Erosion Fabrics	152
Porter Pulpwood & Logging	Commerce	Lumber	3
Solartech	Commerce	Kitchen Cabinets	42
J. M. Huber Corp.	Commerce	Oriented Strand Board	42 150
The Commerce News	Commerce	Newspaper	6
Commerce Printing & Office Supply	Commerce	Commercial Printing	0 4
Commerce r mining & Onice Ouppry	Commerce	Commercial i finting	7

Table 3-1 (continued)

Manufacturing Establishments Located Within 6-Mile Radius From U.S. Highway 441

Company	City	Product E	Total mployees
company	Oity		Inployees
Jackson County (continued)			
Commerce Plastics	Commerce	Plastic Parts	59
Blue Circle Materials	Commerce	Ready-Mixed Concrete	7
B & G Fuel Systems, Inc.	Commerce	Flow Dividers, Gas Turbines	8
TraMar Inc. d/b/a Dirt Dog Mfg.	Commerce	Tractor Attachments	19
Roper Pump Co.	Commerce	Industrial Pumps	198
Metro Machine Works, Inc.	Commerce	Automatic Packaging Equipment	3
Seagraves Weld & Machine	Commerce	Machine Shop	5
Shoffner Industries	Jefferson	Wood Floor & Roof Trusses	44
Parr Manufacturing and Rewind, Inc.	Jefferson	Recyc. Thermal Print Cassettes	5
Rhodes Lumber	Nicholson	Pallets	NL
Laurens County		Jackson Total	720
Hi-Tek Rations	Dublin	Dog Food	12
Williamsons Bakery	Dublin	Bread	5
Southern Peanut & Storage Co.	Dublin	Peanut Processing	4
Victor Forstmann, Inc.	Dublin	Wool & Wool Blend Fabrics	700
Evans Cabinet Corp.	Dublin	Wood Cabinets	200
Shamrock Custom Kitchens	Dublin	Custom Kitchen Cabinets	2
Bassett Furniture Ind. of N.C., Inc.	Dublin	Case Goods - Bedroom Furniture	470
Kellam Cabinet, Inc.	Dublin	Wood Cabinets	22
Confederate Packaging, Inc.	Dublin	Corrugated Interior Packaging	22
Courier-Herald Publishing Co.	Dublin	Newspaper Printing	34
The Bargain Hunter	Dublin	Classified Shopper	6
Southern Printing Co.	Dublin	Offset Job Printing	12
Alexanders Office Equipment	Dublin	Commercial Printing	19
Middle Georgia Business Products Inc.	Dublin	Commercial Printing	28
Roche Mfg. Co.	Dublin	Fertilizer	17
Middle Georgia Easter Seal	Dublin	Foam Fabrications	362
Custom Showers & Pro Glass	Dublin	Commercial/Residential Glass	3
Dublin Burial Vault Co., Inc.	Dublin	Burial Vaults	18 17
B. H. Hall Ready Mixed Concrete Concrete of Dublin	Dublin Dublin	Ready-Mixed Concrete Ready-Mixed Concrete	NL
McDaniel Monument	Dublin	Monuments	NL
Applied Services Aerospace	Dublin	Brazing for Aerospace Ind.	10
YKK AP America, Inc.	Dublin	Aluminum Doors & Window Frame	
Evans Sheet Metal Works	Dublin	Sheet Metal Work	2
Rulli Metal Products	Dublin	Metal Awnings	5
Lytech Corp.	Dublin	Stamped Metal Components	30
Hobbs Specialties	Dublin	Engraving Trophies & Plaques	7
Dublin Trophy & Engraving	Dublin	Trophies	1
New Holland	Dublin	Farm Tractors	92
Silver Edge Mfg. Co., Inc.	Dublin	Farm Wagons & Equipment	12
Harpers Precision Die Co.	Dublin	Steel Rule Dies	1
Vann Air	Dublin	Aux. Air Conditioners for Vans	5
Dixie Machine & Tool	Dublin	Job Shop	10
Rawls Enterprises, Inc.	Dublin	Machine Shop	7
Dublin Plastics, Inc.	Dublin	Plastic Electronic Components	10
Rockwell Automation	Dublin	Programmable Controllers	461

(continued)
Table 3-1 (continued)

			Total
Company	City	Product	<u>Employees</u>
Laurens County (continued)			
Parker Aerospace	Dublin	Aircraft Control Systems	248
Alligood Custom Signs	Dublin	Custom Signs	1
Wyatt Sign Co.	Dublin	Signs	5
Cook Cabinet Shop	East Dublin	Kitchen Cabinets	2
East Dublin Concrete Pdts. Co. Inc.	East Dublin	Concrete Blocks	16
East Dublin Redi-Mix Concrete	East Dublin	Ready-Mixed Concrete	6
Thomas Machine Shop	East Dublin	Machine Shop	3
Rentz Cabinet Co., Inc.	Rentz	Kitchen & Bathroom Cabinets	105
		Laurens Total	3,262
Morgan County			
Pennington Seed, Inc.	Madison	Wild Bird Seed	750
Southern States, Inc.	Madison	Livestock Feeds	7
Wellington Leisure Products, Inc.	Madison	Marine Products	1,300
Sweet-Orr & Co., Inc.	Madison	Men's Slacks	74
International Paper	Madison	Hardwood Chips	7 350
Georgia-Pacific Corp. V. Madisonlian	Madison	Southern Yellow Pine Plywood Newspaper Commercial Printing	350 7
J & M Limited	Madison Madison	Commercial Printing	2
Nu-Art Printers	Madison	Commercial Printing	7
Flambeau S.E. Corp.	Madison	Custom Inject & Blow Molding	132
Ivex Corp.	Madison	Plastic Trays	193
Sovis North America	Madison	Commercial Bent Refrigerator Gla	
All State Septic Tanks	Madison	Septic Tanks	2
B & B Concrete Products, Inc.	Madison	Concrete Septic Tanks	2
Fowler-Flemister Concrete, Inc.	Madison	Ready-Mixed Concrete	7
Bard Mfg. Co.	Madison	Heating/Air Conditioning Units	152
Cumming Bros. Hydraulics, Inc.	Madison	Hydraulic Cylinders	3
Denon Digital Industries	Madison	Compact Audio Discs	225
Brown Art Signs	Madison	Custom Signs	2
Amtico International	Madison	Vinyl Tile	25
		Morgan Total	3,261
Putnam County			
Eatonton Co-Operative Feed Co.	Eatonton	Feed Ingredients	20
M S P Feed Co.	Eatonton	Agricultural Feeds	9
Wellington Leisure Products, Inc.	Eatonton	Cordage & Rope	96
Perky Cap Co, Inc.	Eatonton	Caps Mobile Home Curtains	120
Haleyville Manufacturing	Eatonton		18 7
Middle Ga. Logging Inc. Hallman Wood Products	Eatonton	Pulp Wood & Saw Timber	86
Universal Forest Products, Inc.	Eatonton Eatonton	Dressed Softwood Lumber Mobile Home Rafters	70
Horton Homes, Inc.	Eatonton	Manufactured Homes	1,400
Coleman Furniture Co., Inc.	Eatonton	Living Room Furniture	33
GHB Corp., d/b/a Georgia Sleep Shop	Eatonton	Mattresses & Box Springs	5
Putnam Printing Co., Inc.	Eatonton	Newspaper Publishing	9
Gro Tec, Inc.	Eatonton	Plant Food	57
Fiberglass, Inc.	Eatonton	Fiberglass Bathtubs/Showers	38
Hy-Lite Products, Inc.	Eatonton	Acrylic Block Windows	68
Fowler-Flemister Concrete, Inc.,		,	
Lake Oconee Plt.	Eatonton	Ready-Mixed Concrete	8
		-	

Table 3-1 (continued)

Putnam County (continued) Eatonton Architectural/Decorative Metal 18 Custom Metal, Inc. Eatonton Architectural/Decorative Metal 18 Southeastern Portable Buildings, Inc. Eatonton Dairy Machinery & Cow Washers 20 Wilson Machine & Tool, Inc. Eatonton Dairy Machinery & Cow Washers 20 Alonan Mfg, Inc. Eatonton Multidegeville Machine Job Shop 2 Continental Manufactured Housing Products Eatonton Aluminum Coffee Ums 20 Cayton Tribune - Community News, Inc. Clayton Clayton Fabur County 2,182 Clayton Tribune - Community News, Inc. Clayton Velekly Newspaper 15 2 Clayton Validing & Supply, Inc. Clayton Aircraft Components 43 43 Valley Drapery & Design, Inc. Dillard Custom Woth Counts 36 36 Lakemont Lakemont Lakemont Bridal Cowns 7 Lakemont Mig Co., Inc. Lakemont Mountain City Kitchen Cabinets 5 Garland Cabinet Shop, Inc. Mountain City Kitchen	Company	City	Product	Total Employees
Custom Metal, Inc. Eatonton Architectural/Decorative Metal 18 Southeastern Portable Buildings, Inc. Eatonton Metal Portable Storage Bldgs. 13 Tom Thompson Co., Inc. Eatonton Machine & Storage Bldgs. 12 Alonan Mig., Inc. Eatonton Aurinum Coffee Urns 20 Continental Manufactured Housing Products Eatonton Mobile Home Axles 60 A. I. Ketcher Corp. Milledgeville Electric/Plastic/Wood Signs 5 Putnam Total 2,182 Clayton Tribune - Community News, Inc. Clayton Fabricated Metal Products 3 The A I D Corp. Clayton Fabricated Metal Products 3 The A I D Corp. Clayton Fabricated Metal Products 3 The A I D Corp. Clayton Fabricated Metal Products 3 LaReina Lakemont Mg Co., Inc. Dillard Custom Draperies 3 Lake Rabun Cabinet Shop, Inc. Lakemont Lakemont Lakemont Mg Co., Inc. Mountain City Kitchen Cabinets 5 Gardand Cabinet Shop, Inc. Mountain City Kitchen Cabinets 6 Gardon Mils Mfg., Inc. Mountain City Kitchen & Bath Cabinets 6 Gardon Mils Mfg., Inc. Mountain City Vulcan Materials Co., Southeast Div. Rabun Gap Vatich Materials Co., Southeast Div. Rabun Gap Vatich Materials Co., Southeast Div. Rabun Gap Vatich Materials Co., Southeast Div. Rabun Gap Cotton Fabric 908 National Textile Corp. Rabun Gap Vatica Materials Co., Southeast Div. Rabun Gap Mathine Shop 0 Wild Wood Works Tallulah Falls Rustic Twig Furniting 1 Hillside Orchard Farms, Inc. Tiger Steel Bed Frames 65 Rabun Apparel, Inc. MoRae Machine Shop 3 Rayonier Machine Shop 3 Rayonier Suppon Helena Machine Job Shop 3 Rayonier Suppon Hele				
Southeastern Portable Buildings, Inc. Eatonton Metal Portable Storage Bldgs. 13 Tom Thompson Co., Inc. Eatonton Machine J & Cow Washers 20 Wilson Machine & Tool, Inc. Eatonton Machine Job Shop 2 Alonan Mfg., Inc. Eatonton Machine Job Shop 2 Continental Manufactured Housing Products Eatonton Mulledgeville Putant Coffee Urns 20 Continental Manufactured Housing Products Eatonton Aluminum Coffee Urns 20 Continental Manufactured Housing Products Eatonton Mulledgeville Electric/Plastic/Wood Signs 5 Putam Total 2,182 Putam Total 2,182 2 Rabun County Clayton Commercial Printing 9 2 2 2 Valley Drapery & Design, Inc. Clayton Fabricated Metal Products 3 3 1 2 3 2 2 2 2 2 Lakemont Mfg Co., Inc. Lakemont Ladkemont Ladies Sportswear 36 6 3 3 2 2 2 2 2 2 2 2 2	Putnam County (continued)			
Tom Thompson Co., Inc.EatontonDairy Machinery & Cow Washers20Wilson Machine & Tool, Inc.EatontonMachine Job Shop2Alonan Mig, Inc.EatontonAluminum Coffee Urns20Continental Manufactured Housing ProductsEatontonMobile Home Axles60A. I. Ketcher Corp.MilledgevilleEctric/Plastic/Wood Signs5Rabun CountyClaytonClaytonClaytonCommercial Printing9Clayton Tribune - Community News, Inc.ClaytonClaytonAircraft Components3The Stutsman Co., Inc. d/b/a J&M PrintingClaytonClaytonAircraft Components3Valley Drapery & Design, Inc.DillardCustom Draperies3Lake Rabun Cabinet Shop, Inc.LakemontLadies Sportswear36Garland Cabinet Shop, Inc.Mountain CityWood Kitchen Cabinets5Garland Cabinet Shop, Inc.Mountain CityMountain Review Magazine6Gordon Mills Mg, Inc.Rabun GapCotton Fabric908Baltock Meats Processing, Inc.Rabun GapCotton Fabric908National Textile Corp.Rabun GapCrushed Stone6Gardan Aterials Co., Southeast Div.Rabun GapCrushed Stone6Gap Manufacturing Co.Rabun GapCrushed Stone1Vuican Materials Co., Southeast Div.Rabun GapCrushed Stone1Vuidan Materials Co., Southeast Div.Rabun GapCrushed Stone1Vuida Materials Co., Southeast Div.Tiger		Eatonton	Architectural/Decorative Metal	18
Wilson Machine & Tool, Inc.EatontonMachine Job Shop2Alonan Mfg., Inc.EatontonAluminum Coffee Urns20Continental Manufactured Housing Products EatontonMubile Home Axles60A. I. Ketcher Corp.MilledgevilleElectric/Plastic/Wood Signs5Rabun CountyClayton Tribune - Community News, Inc.ClaytonWeekly Newspaper15Chayton Tribune - Community News, Inc.ClaytonFabricated Metal Products3Olayton Welding & Supply, Inc.ClaytonFabricated Metal Products3Lakemont Mig Co., Inc.DillardCustom Draperies3Lakemont Mig Co., Inc.LakemontBridal Gowns7Lakemont Mig Co., Inc.LakemontWood Kitchen Cabinets5Garland Cabinet Shop, Inc.Mountain CityKitchen Cabinets6Gillespie Cabinet Shop, Inc.Mountain CityKitchen & Bath Cabinets6Garland Cabinet Shop, Inc.Mountain CityKitchen & Bath Cabinets6Garland Cabinet Shop, Inc.Mountain CityKitchen & Bath Cabinets6Gardan Charlas Co., Southeast Div.Rabun GapCrushed Stone6Gardan Charlas Co.Rabun GapYarn428Carson & Cohen-Timberline Door & Millwork Rabun GapYarn428Carson & Cohen-Timberline Dor & Millwork Rabun GapYarn428Carson & Cohen-Timberline Dor & Millwork Rabun GapYarn428Carson & Cohen-Timberline Dor & Millwork Rabun GapSheet Metal Fabrication38Dam	Southeastern Portable Buildings, Inc.	Eatonton	Metal Portable Storage Bldgs.	13
Alonan Mfg., Inc.EatontonAluminum Coffee Ums20Continental Manufactured Housing ProductsEatontonMobile Home Axles60A. I. Ketcher Corp.MilledgevilleElectric/PlasticWood Signs5 Rabun County Clayton Tribune - Community News, IncClaytonWeekly Newspaper15Clayton Tribune - Community News, IncClaytonClaytonCommercial Printing9Clayton Viding & Supply, Inc.ClaytonAircraft Components33LaReinaLakemontBridal Gowns7Lakemont Mfg Co., Inc.LakemontLadies Sportswear36Carland Cabinet Shop, Inc.LakemontKitchen Cabinets5Garand Cabinet Shop, Inc.Mountain CityKitchen Cabinets6Gordon Mills Mfg., Inc.Mountain CityMountain Review Magazine6Gordon Mills Mfg., Inc.Rabun GapCotton Fabric908National Textile Corp.Rabun GapYam428Carson & Cohen-Timberline Door & Millwork Rabun GapMillwork Products5Vulcan Materials Co., Southeast Div.Rabun GapMachine Shop0Vild Wood WorksTallulah FalisRusto Triger1Hillside Orchard Farms, Inc.TigerSteel Bed Frames65Baphens CountyTigerSteel Bed Frames65Millwork NetTallulah FalisRabun Gap1Merale Products Co., Inc.TigerSteel Bed Frames65Rabun Appers, Inc.McRaeStephens Total100 </td <td>Tom Thompson Co., Inc.</td> <td>Eatonton</td> <td>Dairy Machinery & Cow Washers</td> <td>s 20</td>	Tom Thompson Co., Inc.	Eatonton	Dairy Machinery & Cow Washers	s 20
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A. I. Ketcher Corp. Milledgeville Electric/Plastic/Wood Signs 5 Rabun County 2,182 Clayton Tribune - Community News, Inc Clayton Commercial Printing 9 Clayton Velding & Supply, Inc. Clayton Fabricated Metal Products 3 The A I D Corp. Clayton Fabricated Metal Products 3 Lakerano Milg Co., Inc. Dilard Custon Draperies 3 Lakeranot Milg Co., Inc. Lakernont Edes Sportswear 36 Garland Cabinet Shop, Inc. Lakernont Woot Kitchen Cabinets 5 Garland Cabinet Shop, Inc. Mountain City Kitchen Cabinets 6 Gillespie Cabinet Shop, Inc. Mountain City Kitchen Cabinets 6 Gardon Mills Mig., Inc. Rabun Gap Pork Sausage 4 Gardon Mills Mig., Inc. Rabun Gap Yam 428 Arabun Apparel, Inc. Rabun Gap Cotton Fabric 908 National Textile Corp. Rabun Gap Yam 428 Gardon Mills Mig., Inc. Rabun Gap Sheet Metal Fabrication 38 Materials Co., Southeast Div. Rabun Gap	Alonan Mfg., Inc.	Eatonton	Aluminum Coffee Urns	20
Rabur County Putnam Total 2,182 Clayton Tribune - Community News, Inc The Stutsman Co., Inc. d/b/a J&M Printing Clayton Weekly Newspaper 15 The Xutsman Co., Inc. d/b/a J&M Printing Clayton Clayton Commercial Printing 9 Clayton Tribune - Community News, Inc Clayton Clayton Commercial Printing 9 Clayton Veekling & Supply, Inc. Clayton Aircraft Components 43 Valley Drapery & Design, Inc. Dillard Custom Draperies 3 Lakemont Lakemont Bridal Gowns 7 Lakemont Mig Co., Inc. Lakemont Lakemont Kitchen Cabinets 5 Garland Cabinet Shop, Inc. Mountain City Kitchen Cabinets 6 Garg Graphics & Printing Mountain City Bedroom Slippers 25 Blalock Meats Processing, Inc. Rabun Gap Yan 428 Carson & Cohen-Timberline Door & Millwork Rabun Gap Yan 428 Carson & Cohen-Timberline Door & Millwork Rabun Gap Yan 428 Vulcan Materials Co., Southeast Div. Rabun Gap Sheet Metal Fabrication 38 Darnel Mechanical Rabun Gap Sheet Metal Fabrication 38 Machine Shop Tiger Steel Beel Frames 66 Stephens County Machine Shop <td>Continental Manufactured Housing Products</td> <td>Eatonton</td> <td>Mobile Home Axles</td> <td>60</td>	Continental Manufactured Housing Products	Eatonton	Mobile Home Axles	60
Rabun CountyClayton Tribune - Community News, Inc.ClaytonWeekly Newspaper15Clayton Welding & Supply, Inc.ClaytonClaytonCommercial Printing9Clayton Welding & Supply, Inc.ClaytonFabricated Metal Products3The A I D Corp.ClaytonAircraft Components43Valley Drapery & Design, Inc.DillardCustom Draperies3LaReinaLakemontBridal Gowns7Lakemont Mfg Co., Inc.LakemontLakemontWood Kitchen CabinetsCapiles Sportswear36Garland Cabinet Shop, Inc.Mountain CityKitchen Cabinets6Gap Graphics & PrintingMountain CityKitchen B Bath Cabinets6Gap Graphics & PrintingMountain CityBedroom Slippers25Blatock Meats Processing, Inc.Rabun GapCotton Fabric908National Textile Corp.Rabun GapCrushed Stone16Carson & Cohen-Timberline Door & Millwork Rabun GapCrushed Stone16Gap Mandraturing Co.Rabun GapSauces20National Textile Corp.Rabun GapSauces20Naterial Sco., Southeast Div.Rabun GapMachine Shop0Wild Wood WorksTallulah FallsRustic Twig Sauces20Rabun Metal Products Co., Inc.TigerSteel Bed Frames65Stephens CountyToccoaReady-Mixed Concrete100Mergan Concrete Co.ToccoaReady-Mixed Concrete100Stephens StoppHelena </td <td>A. I. Ketcher Corp.</td> <td>Milledgeville</td> <td>Electric/Plastic/Wood Signs</td> <td>5</td>	A. I. Ketcher Corp.	Milledgeville	Electric/Plastic/Wood Signs	5
Clayton Tribure - Community News, Inc.ClaytonWeekly Newspaper15The Stutsman Co., Inc. d/b/a J&M PrintingClaytonCommercial Printing9ClaytonFabricated Metal Products3The A I D Corp.ClaytonAircraft Components43Valley Drapery & Design, Inc.DillardCustom Draperies3LaReinaLakemontBridal Gowns7Lakemont Mfg Co., Inc.LakemontLadies Sportswear36Lake Rabun Cabinet Shop, Inc.Mountain CityKitchen Cabinets5Garland Cabinet Shop, Inc.Mountain CityKitchen & Bath Cabinets6Gargaphics & PrintingMountain CityMountain Review Magazine6Gordon Mills Mfg., Inc.Rabun GapPork Sausage4Rabun Apparel, Inc.Rabun GapYarn428Carson & Cohen-Timberline Door & Millwork Rabun GapYarn428Carson & Cohen-Timberline Door & Millwork Rabun GapMulliwork Products5Gap Manufacturing Co.Rabun GapSheet Metal Fabrication38Darnell MechanicalRabun GapSheet Metal Fabrication38Wild Wood WorksTallulah FallsRustine Shop0Wild Wood WorksTallulah FallsNachine Shop0Wild Wood WorksTallulah FallsRustine Shop10Terson & Conterd Farms, Inc.TigerTressings & Sauces20Rabun Metal Products Co., Inc.TigerStephens Total100Teffair CountyHelenaCommercia			Putnam Total	2,182
The Stutsman Co., Inc. dt/ba J&M PrintingClaytonClaytonCommercial Printing9Clayton Welding & Supply, Inc.ClaytonFabricated Metal Products3The A I D Corp.ClaytonAircraft Components43Valley Drapery & Design, Inc.DillardCustom Draperies3Lakemont Mfg Co., Inc.LakemontBridal Gowns7Lakemont Mfg Co., Inc.LakemontLadies Sportswear36Cartand Cabinet Shop, Inc.Mountain CityKitchen Cabinets5Gartand Cabinet Shop, Inc.Mountain CityKitchen & Bath Cabinets6Gordon Mills Mfg., Inc.Mountain CityBedroom Slippers25Blalock Meats Processing, Inc.Rabun GapPork Sausage4Rabun Apparel, Inc.Rabun GapCotton Fabric908National Textile Corp.Rabun GapYann428Carson & Cohen-Timberline Door & Millwork Rabun GapMillwork Products5Vulcan Materials Co., Southeast Div.Rabun GapMachine Shop0Wild Wood WorksTallulah FallsRustic Twig Furniture1Hillside Orchard Farms, Inc.TigerSteel Bed Frames65Stephens CountyToccoaReady-Mixed Concrete100Mergan Concrete Co.ToccoaReady-Mixed Concrete100Stephens CountyLumber CitySoftwood Lumber78Margan Concrete Co.ToccoaReady-Mixed Concrete100Stephens Total10Rease10Stephens Song <td>Rabun County</td> <td></td> <td></td> <td></td>	Rabun County			
Clayton Welding & Supply, Inc.ClaytonFabricated Metal Products3The A I D Corp.ClaytonAircraft Components43Valley Drapery & Design, Inc.DillardCustom Draperies3LaReinaLakemontBridal Gowns7Lakemont Mfg Co., Inc.LakemontLakemontBridal Gowns36Lake Rabun Cabinet Shop, Inc.LakemontWood Kitchen Cabinets5Garland Cabinet Shop, Inc.Mountain CityKitchen Cabinets6Gargaphics & PrintingMountain CityKitchen Cabinets6Gordon Mills Mfg., Inc.Mountain CityBedroom Silppers25Blalock Meats Processing, Inc.Rabun GapPork Sausage4Rabun Apparel, Inc.Rabun GapContor Fabric908National Textile Corp.Rabun GapYarn428Carson & Cohen-Timberline Door & Millwork Rabun GapMillwork Products5Vulcan Materials Co., Southeast Div.Rabun GapMachine Shop0Wild Wood WorksTailulah FallsRustic Twig Furniture1Hillside Orchard Farms, Inc.TigerSteel Bed Frames65Rabun Metal Products Co., Inc.TigerSteel Bed Frames65Rabun Metal Products Co., Inc.ToccoaReady-Mixed Concrete100Teffar CountyMachine Job Shop33RayonierLumber CitySoftwood Lumber78Yawn Meats, Inc.McRaeMecal Processing10Ress-Smith Pecan Co., Inc.McRae	Clayton Tribune - Community News, Inc		Weekly Newspaper	15
The A I D Corp.ClaytonAircraft Components43Valley Drapery & Design, Inc.DillardCustom Draperies3LaReinaLakemontBridal Gowns7Lakemont Mfg Co., Inc.LakemontLadies Sportswear36Lake Rabun Cabinet Shop, Inc.LakemontLadies Sportswear36Garland Cabinet Shop, Inc.Mountain CityKitchen Cabinets6Garland Cabinet Shop, Inc.Mountain CityKitchen Cabinets6Gardon Mills Mfg., Inc.Mountain CityBedroom Slippers25Blalock Meats Processing, Inc.Rabun GapPork Sausage4Rabun Apparel, Inc.Rabun GapCotton Fabric908National Textile Corp.Rabun GapCurson & Cohen-Timberline Door & Millwork Rabun GapValcan Materials Co., Southeast Div.Rabun GapVulcan Materials Co., Southeast Div.Rabun GapMachine Shop00Wild Wood WorksTallulah FallsRustic Twig Furniture1Hillside Orchard Farms, Inc.TigerDressing & Sauces20Rabun Metal Products Co., Inc.TigerDressing & Sauces20Rabun Meats, Inc.TigerDressing & Sauces20Yawn Meats, Inc.McRaeMachine Job Shop3RayonierLumber CitySoftwood Lumber78Yawn Meats, Inc.McRaeMecaeMachine Job Shop3RayonierLumber CitySoftwood Lumber78Yawn Meats, Inc.McRaeMecaeTextile Silk Screen Pr	The Stutsman Co., Inc.d/b/a J&M Printing	Clayton	Commercial Printing	9
Valley Drapery & Design, Inc.DillardCustom Draperies3LaReinaLakemontBridal Gowns7Lakemont Mg Co., Inc.LakemontLakemontBridal Gowns7Lake Rabun Cabinet Shop, Inc.Mountain CityKitchen Cabinets5Garland Cabinet Shop, Inc.Mountain CityKitchen Cabinets6Gap Graphics & PrintingMountain CityKitchen A Bath Cabinets6Gordon Mills Mg., Inc.Mountain CityBedroom Slippers25Blatock Meats Processing, Inc.Rabun GapPork Sausage4Rabun Apparel, Inc.Rabun GapCotton Fabric908National Textile Corp.Rabun GapYarn428Carson & Cohen-Timberline Door & Millwork Rabun GapCrushed Stone16Gap Manufacturing Co.Rabun GapSheet Metal Fabrication38Darnell MechanicalRabun GapSheet Metal Fabrication38Darnell MechanicalRabun GapSteel Bed Frames65Rabun Metal Products Co., Inc.TigerSteel Bed Frames65Rabun Metal Products Co., Inc.ToccoaReady-Mixed Concrete100Telfar CountyMcRae Business MachinesHelenaCommercial Printing1McRae Business MachinesHelenaCommercial Printing1Eckles Machine ShopHelenaMachine Job Shop3RayonierLumber CitySoftwood Lumber78Yawn Meats, Inc.McRaePeccan Processing10Ross-Smith Pecan Co., In	Clayton Welding & Supply, Inc.	Clayton	Fabricated Metal Products	3
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Lakemont Mfg Co., Inc.LakemontLadies Sportswear36Lake Rabun Cabinet Shop, Inc.LakemontWood Kitchen Cabinets5Garland Cabinet Shop, Inc.Mountain CityKitchen Cabinets6Gillespie Cabinet Shop, Inc.Mountain CityKitchen & Bath Cabinets6Gap Graphics & PrintingMountain CityWountain Review Magazine6Gordon Mills Mfg., Inc.Mountain CityBedroom Slippers25Blalock Meats Processing, Inc.Rabun GapPork Sausage4Rabun Apparel, Inc.Rabun GapCotton Fabric908National Textile Corp.Rabun GapCotton Fabric908Carson & Cohen-Timberline Door & Millwork Rabun GapCrushed Stone16Gap Manufacturing Co.Rabun GapSheet Metal Fabrication38Darnell MechanicalRabun GapSheet Metal Fabrication38Darnell MechanicalRabun GapMachine Shop0Wild Wood WorksTallulah FallsRustic Twig Furniture1Hillside Orchard Farms, Inc.TigerDressings & Sauces20Rabun Metal Products Co., Inc.TigerStephens Total100Stephens CountyMorgan Concrete Co.ToccaaReady-Mixed Concrete100Telfair CountyImper CitySoftwood Lumber78Maxae Business MachinesHelenaCommercial Printing1Eckles Machine ShopHelenaMachine Job Shop3RayonierLumber CitySoftwood Lumber<	Valley Drapery & Design, Inc.	Dillard	Custom Draperies	3
Lake Rabun Čabinet Shop, Inc.LakemontWood Kitchen Cabinets5Garland Cabinet Shop, Inc.Mountain CityKitchen Cabinets6Garg Graphics & PrintingMountain CityKitchen & Batt Cabinets6Gar Graphics & PrintingMountain CityBedroom Slippers25Blalock Meats Processing, Inc.Rabun GapPork Sausage4Rabun Apparel, Inc.Rabun GapCotton Fabric908National Textile Corp.Rabun GapMillwork Robungap908National Textile Corp.Rabun GapMillwork Products5Vulcan Materials Co., Southeast Div.Rabun GapMillwork Products5Own Wild WooksTallulah FallsRustic Twig Furniture1Hillisoft Wood WorksTallulah FallsRustic Twig Furniture1Hillisoft Corpare Co., Inc.TigerSteel Bed Frames65Rabun Metal Products Co., Inc.TigerSteel Bed Frames65Stephens CountyMorea Business MachinesHelenaCommercial Printing1Morgan Concrete Co.ToccoaReady-Mixed Concrete100Stephens Total100Stephens Total100Telfair CountyMickaeMeate Processing3RayonierLumber CitySoftwood Lumber78Yawn Meats, Inc.MickaeMeate Processing1Rakes MachinesHelenaCommercial Printing1Rakes Machine ShopHelenaSoftwood Lumber78Yawn Meats, Inc.McRae	LaReina	Lakemont	Bridal Gowns	7
Garland Cabinet Shop, Inc.Mountain CityKitchen Cabinets6Gillespie Cabinet Shop, Inc.Mountain CityKitchen & Bath Cabinets6Gordon Mills Mfg., Inc.Mountain CityMountain Review Magazine6Balock Meats Processing, Inc.Rabun GapPork Sausage4Rabun Apparel, Inc.Rabun GapCotton Fabric908National Textile Corp.Rabun GapYarn428Carson & Cohen-Timberline Door & Millwork Rabun GapMillwork Products5Vulcan Materials Co., Southeast Div.Rabun GapCrushed Stone16Gap Manufacturing Co.Rabun GapSheet Metal Fabrication38Darnell MechanicalRabun GapSheet Metal Fabrication38Darnell MechanicalRabun GapSteel Bed Frames65Rabun Metal Products Co., Inc.TigerDressings & Sauces20Rabun Metal Products Co., Inc.TigerDressings & Sauces20Rabun Metal Products Co., Inc.TigerStephens Total1,649Morgan Concrete Co.ToccoaReady-Mixed Concrete100Terefiair CountyMcRae Business MachinesHelenaCommercial Printing1Eckles Machine ShopHelenaMachine Job Shop3RayonierLumber CitySoftwood Lumber78Yawn Meats, Inc.McRaeMecRaeTextile Silk Screen Printing1Ross-Smith Pecan Co., Inc.McRaePecan Processing10Ross-Smith Pecan Co., Inc.<	Lakemont Mfg Co., Inc.	Lakemont	Ladies Sportswear	36
Gillespie Cabinet Shop, Inc.Mountain CityKitchen & Bath Cabinets6Gap Graphics & PrintingMountain CityMountain Review Magazine6Gordon Mills Mfg., Inc.Rabun GapPork Sausage4Rabun Apparel, Inc.Rabun GapPork Sausage4Rabun Apparel, Inc.Rabun GapCotton Fabric908National Textile Corp.Rabun GapYarn428Carson & Cohen-Timberline Door & Millwork Rabun GapYarn428Carson & Cohen-Timberline Door & Millwork Rabun GapCrushed Stone16Gap Manufacturing Co.Rabun GapSheet Metal Fabrication38Darnell MechanicalRabun GapMachine Shop0Wild Wood WorksTallulah FallsRustic Twig Furniture1Hillside Orchard Farms, Inc.TigerDressings & Sauces20Rabun Metal Products Co., Inc.TigerSteel Bed Frames65Morgan Concrete Co.ToccoaReady-Mixed Concrete100Telfair CountyToccoaReady-Mixed Concrete100Telfair CountyImper CitySoftwood Lumber78Yawn Meats, Inc.McRaeMecRaeMeat Processing23Sig Es Designs, Inc.McRaePercen Processing23Big Es Designs, Inc.McRaePercessing10Ross-Smith Pecan Co., Inc.McRaePercessing13Southeast Moodlands, Inc.McRaePercessing16Southand ModularMcRaeModular Buildings75<	Lake Rabun Cabinet Shop, Inc.	Lakemont	Wood Kitchen Cabinets	5
Gap Graphics & PrintingMountain CityMountain Review Magazine6Gordon Mills Mfg., Inc.Mountain CityBedroom Slippers25Blalock Meats Processing, Inc.Rabun GapPork Sausage4Rabun Apparel, Inc.Rabun GapCotton Fabric908National Textile Corp.Rabun GapYam428Carson & Cohen-Timberline Door & Millwork Rabun GapMillwork Products5Vulcan Materials Co., Southeast Div.Rabun GapCrushed Stone16Gap Manufacturing Co.Rabun GapSheet Metal Fabrication38Darnell MechanicalRabun GapMachine Shop0Wild Wood WorksTallulah FallsRustic Twig Furniture1Hillside Orchard Farms, Inc.TigerDressings & Sauces20Rabun Metal Products Co., Inc.TigerSteel Bed Frames65Rabun Total1,649Stephens CountyMorgan Concrete Co.ToccoaReady-Mixed Concrete100Telfair CountyImber CitySoftwood Lumber78MaxonierLumber CitySoftwood Lumber78Yawn Meats, Inc.McRaeMeat Processing10RasonierMcRaeMeat Processing10Yawn Meats, Inc.McRaeMeat Processing13Southeast Moodiands, Inc.McRaeTextile Silk Screen Printing1Southeast Woodlands, Inc.McRaeTextile Silk Screen Printing1Southand ModularMcRaeMocRaeTextile Silk Screen Frinting1 </td <td>Garland Cabinet Shop, Inc.</td> <td>Mountain City</td> <td>Kitchen Cabinets</td> <td>6</td>	Garland Cabinet Shop, Inc.	Mountain City	Kitchen Cabinets	6
Gordon Mills Mfg., Inc.Mountain CityBedroom Slippers25Blalock Meats Processing, Inc.Rabun GapPork Sausage4Rabun Apparel, Inc.Rabun GapCotton Fabric908National Textile Corp.Rabun GapYarn428Carson & Cohen-Timberline Door & Millwork Rabun GapMillwork Products5Vulcan Materials Co., Southeast Div.Rabun GapCrushed Stone16Gap Manufacturing Co.Rabun GapMachine Shop0Wild Wood WorksTallulah FallsRustic Twig Furniture1Hillside Orchard Farms, Inc.TigerDressings & Sauces20Rabun Metal Products Co., Inc.TigerStephens Concrete100Stephens CountyMorgan Concrete Co.ToccoaReady-Mixed Concrete100McRae Business MachinesHelenaCommercial Printing1Eckles Machine ShopHelenaMachine Job Shop3RayonierLumber CitySoftwood Lumber78Yawn Meats, Inc.McRaeMeat Processing23Big Es Designs, Inc.McRaeMeat Processing23Big Es Designs, Inc.McRaePecan Processing13Wilkins Industries, Inc.McRaeTextile Silk Screen Printing1Wilkins Industries, Inc.McRaeTextile Silk Screen Printing1Wilkins Industries, Inc.McRaeTextile Silk Screen Printing1Wilkins Industries, Inc.McRaeWordae75Southeast Woodlands, Inc.McRae <td>Gillespie Cabinet Shop, Inc.</td> <td>Mountain City</td> <td>Kitchen & Bath Cabinets</td> <td>6</td>	Gillespie Cabinet Shop, Inc.	Mountain City	Kitchen & Bath Cabinets	6
Blalock Meats Processing, Inc.Rabun Gap Rabun GapPork Sausage4Rabun Apparel, Inc.Rabun Gap Rabun GapCotton Fabric908National Textile Corp.Rabun Gap YarnYarn428Carson & Cohen-Timberline Door & Millwork Rabun Gap Vulcan Materials Co., Southeast Div.Rabun Gap Rabun GapCrushed Stone16Gap Manufacturing Co.Rabun Gap Rabun GapCrushed Stone1638Darnell MechanicalRabun Gap Rabun GapMachine Shop00Wild Wood WorksTallulah Falls Rabun Metal Products Co., Inc.Tiger TigerDressings & Sauces20Rabun Metal Products Co., Inc.TigerSteel Bed Frames65Rabun Total1,649Stephens CountyMorgan Concrete Co.ToccoaReady-Mixed Concrete100Stephens Total100Telfair CountyMcRae Business MachinesHelenaCommercial Printing1Eckles Machine ShopHelenaMachine Job Shop3RayonierLumber CitySoftwood Lumber78Yawn Meats, Inc.McRaeMeat Processing10Ross-Smith Pecan Co., Inc.McRaeTextile Silk Screen Printing1Wilkins Industries, Inc.McRaeTextile Silk Screen Printing1Wilkins Industries, Inc.McRaeTextile Silk Screen Printing1Wilkins Industries, Inc.McRaeTextile Silk Screen Printing15Southeast Woodlands, Inc. <td< td=""><td>Gap Graphics & Printing</td><td>Mountain City</td><td>Mountain Review Magazine</td><td>6</td></td<>	Gap Graphics & Printing	Mountain City	Mountain Review Magazine	6
Rabun Apparel, Inc.Rabun Gap Rabun GapCotton Fabric908National Textile Corp.Rabun GapYarn428Carson & Cohen-Timberline Door & Millwork Rabun GapMillwork Products5Vulcan Materials Co., Southeast Div.Rabun GapCrushed Stone16Gap Manufacturing Co.Rabun GapSheet Metal Fabrication38Darnell MechanicalRabun GapMachine Shop0Wild Wood WorksTallulah FallsRustic Twig Furniture1Hillside Orchard Farms, Inc.TigerDressings & Sauces20Rabun Metal Products Co., Inc.TigerSteel Bed Frames65Morgan Concrete Co.ToccoaReady-Mixed Concrete100Stephens CountyMachine Shop3100Telfair CountyMachine Job Shop33McRae Business MachinesHelenaCommercial Printing1Eckles Machine ShopHelenaMachine Job Shop3RayonierLumber CitySoftwood Lumber78Yawn Meats, Inc.McRaePecan Processing23Big Es Designs, Inc.McRaePecan Processing23Big Es Designs, Inc.McRaeWomen's Jeans163Southeast Woodlands, Inc.McRaeModular Bildings75Blue Circle MaterialsMcRaeModular Buildings75Blue Circle MaterialsMcRaeLawn Mowers673	Gordon Mills Mfg., Inc.	Mountain City	Bedroom Slippers	25
National Textile Corp.Rabun GapYarn428Carson & Cohen-Timberline Door & Millwork Rabun GapMillwork Products5Vulcan Materials Co., Southeast Div.Rabun GapCrushed Stone16Gap Manufacturing Co.Rabun GapSheet Metal Fabrication38Darnell MechanicalRabun GapMachine Shop0Wild Wood WorksTallulah FallsRustic Twig Furniture1Hillside Orchard Farms, Inc.TigerDressings & Sauces20Rabun Metal Products Co., Inc.TigerSteel Bed Frames65 Stephens County Morgan Concrete Co.ToccoaReady-Mixed Concrete100 Telfair County Machine Job Shop33RayonierLumber CitySoftwood Lumber78Yawn Meats, Inc.McRaeMecan Processing10Ross-Smith Pecan Co., Inc.McRaePecan Processing10Ross-Smith Pecan Co., Inc.McRaePecan Processing13Big Es Designs, Inc.McRaeTextile Silk Screen Printing1Wikins Industries, Inc.McRaeTextile Silk Screen Printing1Wikins Industries, Inc.McRaeTextile Silk Screen Printing1Southeast Woodlands, Inc.McRaeModular Buildings75Blue Circle MaterialsMcRaeReady-Mixed Concrete5Frigidaire Home ProductsMcRaeLawn Mowers673	Blalock Meats Processing, Inc.	Rabun Gap	Pork Sausage	4
Carson & Cohen-Timberline Door & Millwork Rabun GapMillwork Products5Vulcan Materials Co., Southeast Div.Rabun GapCrushed Stone16Gap Manufacturing Co.Rabun GapSheet Metal Fabrication38Darnell MechanicalRabun GapMachine Shop0Wild Wood WorksTallulah FallsRustic Twig Furniture1Hillside Orchard Farms, Inc.TigerDressings & Sauces20Rabun Metal Products Co., Inc.TigerSteel Bed Frames65Rabun Total1,649Stephens CountyMorgan Concrete Co.ToccoaReady-Mixed Concrete100Telfair CountyMcRae Business MachinesHelenaCommercial Printing1McRae Business MachinesHelenaMachine Job Shop33RayonierLumber CitySoftwood Lumber7878Yawn Meats, Inc.McRaeMeat Processing103Ross-Smith Pecan Co., Inc.McRaePecan Processing23Big Es Designs, Inc.McRaeTextile Silk Screen Printing1Wilkins Industries, Inc.McRaeTextile Silk Screen Printing1Wilkins Industries, Inc.McRaeTextile Silk Screen Printing1Southeast Woodlands, Inc.McRaeTextile Silk Screen Printing15Southland ModularMcRaeModular Buildings75Blue Circle MaterialsMcRaeReady-Mixed Concrete5Frigidaire Home ProductsMcRaeLawn Mowers673	Rabun Apparel, Inc.	Rabun Gap	Cotton Fabric	908
Vulcan Materials Co., Southeast Div.Rabun GapCrushed Stone16Gap Manufacturing Co.Rabun GapSheet Metal Fabrication38Darnell MechanicalRabun GapMachine Shop0Wild Wood WorksTallulah FallsRustic Twig Furniture1Hillside Orchard Farms, Inc.TigerDressings & Sauces20Rabun Metal Products Co., Inc.TigerSteel Bed Frames65Rabun Total1,649Stephens CountyNorgan Concrete Co.ToccoaReady-Mixed Concrete100Morgan Concrete Co.ToccoaReady-Mixed Concrete100Telfair CountyNachine Shop33McRae Business MachinesHelenaCommercial Printing1Eckles Machine ShopHelenaMachine Job Shop3RayonierLumber CitySoftwood Lumber78Yawn Meats, Inc.McRaeMecRaePecan Processing10Ross-Smith Pecan Co., Inc.McRaePecan Processing23Big Es Designs, Inc.McRaeTextile Silk Screen Printing1Wilkins Industries, Inc.McRaeTextile Silk Screen Printing1Wilkins Industries, Inc.McRaeTimbers163Southeast Woodlands, Inc.McRaeTimbers15Southland ModularMcRaeKaeaModular Buildings75Blue Circle MaterialsMcRaeLawn Mowers673	National Textile Corp.	Rabun Gap	Yarn	428
Gap Manufacturing Co.Rabun GapSheet Metal Fabrication38Darnell MechanicalRabun GapMachine Shop0Wild Wood WorksTallulah FallsRustic Twig Furniture1Hillside Orchard Farms, Inc.TigerDressings & Sauces20Rabun Metal Products Co., Inc.TigerDressings & Sauces20Rabun Metal Products Co., Inc.TigerSteel Bed Frames65Rabun Total1,649Stephens CountyToccoaReady-Mixed Concrete100Morgan Concrete Co.ToccoaReady-Mixed Concrete100Telfair CountyTelfair County1McRae Business MachinesHelenaCommercial Printing1Eckles Machine ShopHelenaMachine Job Shop3RayonierLumber CitySoftwood Lumber78Yawn Meats, Inc.McRaeMecaePecan Processing10Ross-Smith Pecan Co., Inc.McRaePecan Processing13Big Es Designs, Inc.McRaeTextile Silk Screen Printing1Wilkins Industries, Inc.McRaeTextile Silk Screen Printing1Wilkins Industries, Inc.McRaeModular Buildings75Blue Circle MaterialsMcRaeModular Buildings75Blue Circle MaterialsMcRaeLawn Mowers673	Carson & Cohen-Timberline Door & Millwork	Rabun Gap	Millwork Products	5
Darnell MechanicalRabun GapMachine Shop0Wild Wood WorksTallulah FallsRustic Twig Furniture1Hillside Orchard Farms, Inc.TigerDressings & Sauces20Rabun Metal Products Co., Inc.TigerSteel Bed Frames65Rabun Metal Products Co., Inc.TigerSteel Bed Frames65Rabun Total1,649Stephens CountyToccoaReady-Mixed Concrete100Morgan Concrete Co.ToccoaReady-Mixed Concrete100Telfair CountyTelfair County1100McRae Business MachinesHelenaCommercial Printing1Eckles Machine ShopHelenaMachine Job Shop3RayonierLumber CitySoftwood Lumber78Yawn Meats, Inc.McRaeMecaePecan Processing10Ross-Smith Pecan Co., Inc.McRaeTextile Silk Screen Printing1Wilkins Industries, Inc.McRaeTextile Silk Screen Printing1Wilkins Industries, Inc.McRaeTimbers15Southeast Woodlands, Inc.McRaeModular Buildings75Blue Circle MaterialsMcRaeReady-Mixed Concrete5Frigidaire Home ProductsMcRaeLawn Mowers673	Vulcan Materials Co., Southeast Div.	Rabun Gap	Crushed Stone	16
Wild Wood WorksTallulah FallsRustic Twig Furniture1Hillside Orchard Farms, Inc.TigerDressings & Sauces20Rabun Metal Products Co., Inc.TigerSteel Bed Frames65Rabun Total1,649Stephens CountyToccoaReady-Mixed Concrete100Morgan Concrete Co.ToccoaReady-Mixed Concrete100Telfair CountyTelfair County100100Tekles Machine ShopHelenaCommercial Printing1Eckles Machine ShopHelenaMachine Job Shop3RayonierLumber CitySoftwood Lumber78Yawn Meats, Inc.McRaeMeat Processing10Ross-Smith Pecan Co., Inc.McRaeTextile Silk Screen Printing1Wilkins Industries, Inc.McRaeTextile Silk Screen Printing1Southeast Woodlands, Inc.McRaeTomers15Southland ModularMcRaeModular Buildings75Blue Circle MaterialsMcRaeReady-Mixed Concrete5Frigidaire Home ProductsMcRaeLawn Mowers673	Gap Manufacturing Co.	Rabun Gap	Sheet Metal Fabrication	38
Hillside Orchard Farms, Inc.TigerDressings & Sauces20Rabun Metal Products Co., Inc.TigerSteel Bed Frames65Rabun Total1,649Stephens CountyToccoaReady-Mixed Concrete100Morgan Concrete Co.ToccoaReady-Mixed Concrete100Telfair CountyMcRae Business MachinesHelenaCommercial Printing1Eckles Machine ShopHelenaMachine Job Shop3RayonierLumber CitySoftwood Lumber78Yawn Meats, Inc.McRaePecan Processing10Ross-Smith Pecan Co., Inc.McRaeTextile Silk Screen Printing1Wilkins Industries, Inc.McRaeTextile Silk Screen Printing1Wilkins Industries, Inc.McRaeTimbers163Southeast Woodlands, Inc.McRaeTimbers15Southland ModularMcRaeModular Buildings75Blue Circle MaterialsMcRaeReady-Mixed Concrete5Frigidaire Home ProductsMcRaeLawn Mowers673	Darnell Mechanical	Rabun Gap	Machine Shop	0
Rabun Metal Products Co., Inc.TigerSteel Bed Frames65Rabun Total1,649Stephens CountyToccoaReady-Mixed Concrete100Morgan Concrete Co.ToccoaReady-Mixed Concrete100Telfair CountyTelfair County1100McRae Business MachinesHelenaCommercial Printing1Eckles Machine ShopHelenaMachine Job Shop3RayonierLumber CitySoftwood Lumber78Yawn Meats, Inc.McRaeMeat Processing10Ross-Smith Pecan Co., Inc.McRaePecan Processing23Big Es Designs, Inc.McRaeTextile Silk Screen Printing1Wilkins Industries, Inc.McRaeTimbers163Southeast Woodlands, Inc.McRaeTimbers15Southland ModularMcRaeModular Buildings75Blue Circle MaterialsMcRaeReady-Mixed Concrete5Frigidaire Home ProductsMcRaeLawn Mowers673	Wild Wood Works	Tallulah Falls	Rustic Twig Furniture	1
Stephens CountyToccoaReady-Mixed Concrete100Morgan Concrete Co.ToccoaReady-Mixed Concrete100Telfair CountyToccoaReady-Mixed Concrete100McRae Business MachinesHelenaCommercial Printing1Eckles Machine ShopHelenaMachine Job Shop3RayonierLumber CitySoftwood Lumber78Yawn Meats, Inc.McRaeMeat Processing10Ross-Smith Pecan Co., Inc.McRaePecan Processing23Big Es Designs, Inc.McRaeTextile Silk Screen Printing1Wilkins Industries, Inc.McRaeTimbers163Southeast Woodlands, Inc.McRaeTimbers15Southland ModularMcRaeModular Buildings75Blue Circle MaterialsMcRaeReady-Mixed Concrete5Frigidaire Home ProductsMcRaeLawn Mowers673	Hillside Orchard Farms, Inc.	Tiger	Dressings & Sauces	20
Stephens CountyMorgan Concrete Co.ToccoaReady-Mixed Concrete100Stephens Total100Telfair CountyMcRae Business MachinesHelenaCommercial Printing1Eckles Machine ShopHelenaMachine Job Shop3RayonierLumber CitySoftwood Lumber78Yawn Meats, Inc.McRaeMeat Processing10Ross-Smith Pecan Co., Inc.McRaePecan Processing23Big Es Designs, Inc.McRaeTextile Silk Screen Printing1Wilkins Industries, Inc.McRaeTimbers15Southeast Woodlands, Inc.McRaeModular Buildings75Blue Circle MaterialsMcRaeReady-Mixed Concrete5Frigidaire Home ProductsMcRaeLawn Mowers673	Rabun Metal Products Co., Inc.	Tiger	Steel Bed Frames	65
Morgan Concrete Co.ToccoaReady-Mixed Concrete100Stephens Total100Telfair CountyImage: Commercial Printing1McRae Business MachinesHelenaCommercial Printing1Eckles Machine ShopHelenaMachine Job Shop3RayonierLumber CitySoftwood Lumber78Yawn Meats, Inc.McRaeMeat Processing10Ross-Smith Pecan Co., Inc.McRaePecan Processing23Big Es Designs, Inc.McRaeTextile Silk Screen Printing1Wilkins Industries, Inc.McRaeTimbers163Southeast Woodlands, Inc.McRaeTimbers15Southland ModularMcRaeModular Buildings75Blue Circle MaterialsMcRaeReady-Mixed Concrete5Frigidaire Home ProductsMcRaeLawn Mowers673			Rabun Total	1,649
Telfair County100McRae Business MachinesHelenaCommercial Printing1Eckles Machine ShopHelenaMachine Job Shop3RayonierLumber CitySoftwood Lumber78Yawn Meats, Inc.McRaeMeat Processing10Ross-Smith Pecan Co., Inc.McRaePecan Processing23Big Es Designs, Inc.McRaeTextile Silk Screen Printing1Wilkins Industries, Inc.McRaeTimbers163Southeast Woodlands, Inc.McRaeTimbers15Southland ModularMcRaeModular Buildings75Blue Circle MaterialsMcRaeReady-Mixed Concrete5Frigidaire Home ProductsMcRaeLawn Mowers673	Stephens County			
Telfair CountyMcRae Business MachinesHelenaCommercial Printing1Eckles Machine ShopHelenaMachine Job Shop3RayonierLumber CitySoftwood Lumber78Yawn Meats, Inc.McRaeMeat Processing10Ross-Smith Pecan Co., Inc.McRaePecan Processing23Big Es Designs, Inc.McRaeTextile Silk Screen Printing1Wilkins Industries, Inc.McRaeTomer's Jeans163Southeast Woodlands, Inc.McRaeTimbers15Southland ModularMcRaeModular Buildings75Blue Circle MaterialsMcRaeReady-Mixed Concrete5Frigidaire Home ProductsMcRaeLawn Mowers673	Morgan Concrete Co.	Тоссоа	Ready-Mixed Concrete	100
McRae Business MachinesHelenaCommercial Printing1Eckles Machine ShopHelenaMachine Job Shop3RayonierLumber CitySoftwood Lumber78Yawn Meats, Inc.McRaeMeat Processing10Ross-Smith Pecan Co., Inc.McRaePecan Processing23Big Es Designs, Inc.McRaeTextile Silk Screen Printing1Wilkins Industries, Inc.McRaeWomen's Jeans163Southeast Woodlands, Inc.McRaeTimbers15Southland ModularMcRaeModular Buildings75Blue Circle MaterialsMcRaeReady-Mixed Concrete5Frigidaire Home ProductsMcRaeLawn Mowers673			Stephens Total	100
Eckles Machine ShopHelenaMachine Job Shop3RayonierLumber CitySoftwood Lumber78Yawn Meats, Inc.McRaeMeat Processing10Ross-Smith Pecan Co., Inc.McRaePecan Processing23Big Es Designs, Inc.McRaeTextile Silk Screen Printing1Wilkins Industries, Inc.McRaeWomen's Jeans163Southeast Woodlands, Inc.McRaeTimbers15Southland ModularMcRaeModular Buildings75Blue Circle MaterialsMcRaeReady-Mixed Concrete5Frigidaire Home ProductsMcRaeLawn Mowers673	Telfair County			
RayonierLumber CitySoftwood Lumber78Yawn Meats, Inc.McRaeMeat Processing10Ross-Smith Pecan Co., Inc.McRaePecan Processing23Big Es Designs, Inc.McRaeTextile Silk Screen Printing1Wilkins Industries, Inc.McRaeWomen's Jeans163Southeast Woodlands, Inc.McRaeTimbers15Southland ModularMcRaeModular Buildings75Blue Circle MaterialsMcRaeReady-Mixed Concrete5Frigidaire Home ProductsMcRaeLawn Mowers673	McRae Business Machines	Helena	Commercial Printing	
Yawn Meats, Inc.McRaeMeat Processing10Ross-Smith Pecan Co., Inc.McRaePecan Processing23Big Es Designs, Inc.McRaeTextile Silk Screen Printing1Wilkins Industries, Inc.McRaeWomen's Jeans163Southeast Woodlands, Inc.McRaeTimbers15Southland ModularMcRaeModular Buildings75Blue Circle MaterialsMcRaeReady-Mixed Concrete5Frigidaire Home ProductsMcRaeLawn Mowers673	Eckles Machine Shop			
Ross-Smith Pecan Co., Inc.McRaePecan Processing23Big Es Designs, Inc.McRaeTextile Silk Screen Printing1Wilkins Industries, Inc.McRaeWomen's Jeans163Southeast Woodlands, Inc.McRaeTimbers15Southland ModularMcRaeModular Buildings75Blue Circle MaterialsMcRaeReady-Mixed Concrete5Frigidaire Home ProductsMcRaeLawn Mowers673	Rayonier	Lumber City	Softwood Lumber	78
Big Es Designs, Inc.McRaeTextile Silk Screen Printing1Wilkins Industries, Inc.McRaeWomen's Jeans163Southeast Woodlands, Inc.McRaeTimbers15Southland ModularMcRaeModular Buildings75Blue Circle MaterialsMcRaeReady-Mixed Concrete5Frigidaire Home ProductsMcRaeLawn Mowers673		McRae	Meat Processing	10
Wilkins Industries, Inc.McRaeWomen's Jeans163Southeast Woodlands, Inc.McRaeTimbers15Southland ModularMcRaeModular Buildings75Blue Circle MaterialsMcRaeReady-Mixed Concrete5Frigidaire Home ProductsMcRaeLawn Mowers673		McRae	Pecan Processing	23
Southeast Woodlands, Inc.McRaeTimbers15Southland ModularMcRaeModular Buildings75Blue Circle MaterialsMcRaeReady-Mixed Concrete5Frigidaire Home ProductsMcRaeLawn Mowers673	Big Es Designs, Inc.	McRae	Textile Silk Screen Printing	1
Southland ModularMcRaeModular Buildings75Blue Circle MaterialsMcRaeReady-Mixed Concrete5Frigidaire Home ProductsMcRaeLawn Mowers673			Women's Jeans	
Blue Circle MaterialsMcRaeReady-Mixed Concrete5Frigidaire Home ProductsMcRaeLawn Mowers673		McRae	Timbers	15
Frigidaire Home Products McRae Lawn Mowers 673				75
J · · · · · · · · · · · · · · · · · · ·	Blue Circle Materials	McRae		5
Telfair Total 1,047	Frigidaire Home Products	McRae		
			Telfair Total	1,047

Table 3-1 (continued)

Manufacturing Establishments Located Within 6-Mile Radius From U.S. Highway 441

Company	City	Product	Total Employees
Wilkinson County			
International Paper	Gordon	Wood Chips	5
Wilkinson Kaolin Associates, Ltd.	Gordon	Kaolin	64
Culpepper Wood Products, Inc.	Irwinton	Pallet Lumber	13
Wilco Wood Works, Inc.	Irwinton	Wooden Pallets	64
Wilkinson County News	Irwinton	Weekly Newspaper Publishing	6
Mason Sales Co.	Irwinton	Circle/Carbide/Stellite Saws	13
Wilkinson Steel, Inc.	lvey	Fabricated Metal Products	13
Fountain Pallet Co., Inc.	McIntyre	Wooden Pallets & Skids	15
M & M Clays, Inc.	McIntyre	Kaolin Processing	30
Unimin Corporation	McIntyre	Fiber Glass Feed Stock	56
Carbo Ceramics, Inc.	McIntyre	Ceramic Proppants	
Woody Lumber Co., Inc.	Toomsboro	Hardwood Lumber	12
Engelhard Corp.,			
Middle Georgia Operations ²	McIntyre	Kaolin Clay	1,193
Mason Pallet, Inc. ²	McIntyre	Wooden Stacker Sticks	20
		Wilkinson Total	1,504
		TOTAL	28,104

NL Not listed.

¹ U.S. 441 and South Georgia Parkway intersection. Also listed with South Georgia Parkway

² U.S. 441 and Fall Line Freeway Intersection. Also listed with Fall Line Freeway.

Source: Selig Center for Economic Growth, Terry College of Business, The University of Georgia, based on: Office of Information Technology Services, Georgia 2000 Information System. Manufactures data based on the Georgia Manufacturing Directory (GDITT)

Manufacturing Establishments Located Within 6-Mile Radius From the Fall Line Freeway

Company	City	Product	Total Employees
Baldwin County			
Bass Signal Corporation ¹	Milledgeville	Traffic Lights	16
Concord Fabrics, Inc. ¹	Milledgeville	Double Knit	280
Curly Shavings ¹	Milledgeville	Architectural Woodwork	2
Duckworth Farm Supply, Inc. ¹	Milledgeville	Cattle Feed	6
Fowler-Flemister Concrete, Inc. ¹	Milledgeville	Ready-Mixed Concrete	23
Glasrite, Inc. ¹	Milledgeville	Fiberglass Insulation	17
Hattaway Screen Printing ¹	Milledgeville	Apparel Screen Printing	5
Heritage Printing, Inc. ¹	Milledgeville	Commercial Printing	5
Innovative Packaging ¹	Milledgeville	Corrugated Boxes	30
Rheem Manufacturing Co. ¹	Milledgeville	Air Conditioning Units	1,050
Ryals Bakery ¹	Milledgeville	Cakes	8
Shaw Industries, Inc. ¹	Milledgeville	Carpet Yarns	231
Specialty Lumber Supply ¹	Milledgeville	Heart Pine Flooring	9
Studio Designs Printing, Inc. ¹	Milledgeville	Offset Printing	9
T & S Hardwoods, Inc. ¹	•	0	9 94
	Milledgeville	Hardwood Rough Lumber	-
The Print Shop ¹	Milledgeville	Signs Baldwin Total	2 1,787
Harris County			
Steinhaus Printing Services	Cataula	Commercial Printing Harris Total	6 6
Jefferson County			0
Hodges Machine Shop, Inc.	Bartow	Job Shop	4
Cadet Mfg. Corp.	Louisville	Curtains	175
A. P. Jones Timber Co.	Louisville	Logging	5
Dixieland Wood Products, Inc. Fall Line Publishing, Inc.	Louisville Louisville	Pallets Nowspaper Publishing	26 9
The News & Farmer/Jefferson Reporter	Louisville	Newspaper Publishing Publishing	5 7
Thermo King Corp.	Louisville	Transport Refrigeration Equip.	437
Battle Lumber Co., Inc.	Wadley	Wooden Pallets	240
Fulghum Industries, Inc.	Wadley	Wood Yard Chipping Systems	125
Rachels Machine & Fabrication, Inc.	Wadley	Precision Machining	10
Atwell Pecan Co., Inc. Lamb Lumber Holding Co., Inc.	Wrens Wrens	Shelled Pecan Meats, Processed Rough Hardwood	d 20 72
Glit, Inc.	Wrens	Floor Buffer Pads	207
A & M Products Manufacturing Company	Wrens	Cat Litter	88
Georgia Tennessee Mining & Chem. Co.	Wrens	Fullers Earth Processing	42
J. M. Huber Corp., Engineered			
Materials Division	Wrens	Kaolin Processing	178
Lewis Steel Works Air Balance, Inc., Div. of MESTEK, Inc.	Wrens Wrens	Refuse Containers Kickspace Heaters	122 119
All Dalance, Inc., DIV. OF MESTER, INC.	VVIENS	Jefferson Total	1,886
			1,000

Table 3-2 (continued)

Manufacturing Establishments Located Within 6-Mile Radius From the Fall Line Freeway

_			Total
Company	City	Product	Employees
Taylor County			
Peed Bros. Inc.2	Butler	Prepared Animal Feed	9
M F & H Textiles, Inc.2	Butler	Specialty Dyeing & Finishing	77
Taylor County News2	Butler	Weekly Newspaper	2
Benns Printing Co.2	Butler	Brochures	4
Suggs Machine & Welding Co., Inc.2	Butler	Shellers, Cleaners & Graders	7
BAE Systems2	Butler	Wiring Harnesses	18
Master Builders	Reynolds	Concrete Admixtures	7
	, ,	Taylor Total	124
Washington County			
The Feed Mill, Inc.	Sandersville	Beef Cattle Feed	7
Cooks Ice Co., Inc.	Sandersville	Ice	15
Crossties of Virginia	Sandersville	Crossties	35
The Sandersville Progress	Sandersville	Newspaper Publishing	8
Stewart Printing Co.	Sandersville	Commercial Printing	2
WACO Chemical Company, Inc.	Sandersville	Sodium Polyacrylate	2
Prentiss, Inc.	Sandersville	Liquid Insecticides	19
Evans Adhesive Corp.	Sandersville	Hot Melt Adhesives	10
CSR - Poly Pipe	Sandersville	Polyethylene Pipe	21
Lapp Insulator Co.	Sandersville	High Voltage Insulators	157
Smith Sheppard Supply., Inc.	Sandersville	Ready-Mixed Concrete	45
Engelhard Corp.	Sandersville	Kaolin Processing	90
Burgess Pigment Co.	Sandersville	Kaolin Processing	160
Kentucky-Tennessee Clay Co.	Sandersville	Kaolin Processing	70
Thiele Kaolin Co.	Sandersville	Kaolin Processing	553
C & B	Tennille	Veneer	59
Ameriduct Worldwide, Inc.	Tennille	Polyethylene Pipe	43
		Washington Total	1,296
Wilkinson County	Orandan	la duatrial Os atis as	40
Elite Coatings Company	Gordon	Industrial Coatings	12
Mason Pallet, Inc. ¹	McIntyre	Wooden Stacker Sticks	20
Engelhard Corp., Middle			
Georgia Operations ¹	McIntyre	Kaolin Clay	1,193
- ·	2	Wilkinson Total	1,225
		TOTAL	6,324

¹ Fall Line Freeway and U.S. 441 Intersection. Also listed with U.S. 441

² Fall Line Freeway and U.S. 19 intersection. Also listed with U.S. 19

Source: Selig Center for Economic Growth, Terry College of Business, The University of Georgia, based on: Office of Information Technology Services, Georgia 2000 Information System. Manufactures data based on the Georgia Manufacturing Directory (GDITT)

Company	City	Product	Total Employees
Lamar County			
Evans Timber Co., Inc.	Milner	Logging Lamar Total	20 20
Mitchell County			
R C M Enterprises, Inc.	Baconton	Women's Sportswear	120
Big Boy Meats, Inc.	Camilla	Processed Pork	12
Cagles/Keystone Foods	Camilla	Boneless Poultry	2,000
Simpson Lumber	Camilla	Rough Lumber	4
Southeastern Truss, Inc.	Camilla	Roof Trusses	18
The Camilla Enterprise	Camilla	Newspaper Printing	13 2
Brown-Coe Printing Co.	Camilla Camilla	Offset Job Printing	2 11
Hays Sales & Service, Inc. Hays Sales & Service, Inc.	Camilla	Fiberglass Tanks Fiberglass Tanks	11
Tri-State Pre-Cast	Camilla	Septic Tanks	5
Southern Concrete/A Div. of Florida Rock	Camilla	Ready-Mixed Concrete	4
Anderson Manufacturing, Inc.	Camilla	Utility & Equipment Trailers	50
Trampoline Recreation Supply	Cotton	Exercisers	7
Daughtry Trailers	Meigs	Livestock Trailers	2
Daughtry Trailers	Meigs	Livestock Trailers	2
Darwood Mfg. Co.	Pelham	Men's Shirts	270
J. L. Eubanks Pulpwood Co.	Pelham	Pulpwood	25
Alexander-Harris Co., Inc.	Pelham	Single Ply Veneer	47
The Pelham Journal	Pelham	Newspaper Printing	3
Universal Shelters of America, Inc.	Pelham	Quonset Shelters 10- 65 wd.	8
Flynts Auto Machine Shop, Inc.	Pelham Pelham	Custom Machine Shop	6 18
Multi-Graphics, Inc.	Feinain	Interior Architectural Signage Mitchell Total	2,638
Pike County			,
Sonnys Ice Inc.	Concord	Bagged Ice	11
General Machine-Diecron, Inc.	Griffin	Dies, Tools, Jigs & Fixtures	30
Supreme Corporation William Carter Co.	Griffin	Dry Freight Van Bodies	226
d/b/a Carters Childrenswear	Milner	Embroideries	150
Touchstone Embroidery, Inc.	Zebulon	Schiffli Machine Embroideries	13
Palco Industries, Inc.	Zebulon	Wooden Pallets	13
Pike County Journal & Reporter	Zebulon	Weekly Newsaper Publishing Pike Total	4 447
Schley County			
Plains Products, Inc.	Ellaville	Laminated Wood Mouldings	16
UMDI	Ellaville	Cabinet Component Parts	30
Kings Custom Builders, Inc.	Ellaville	Mobile Office Units	205
AAA Modular Buildings, Inc.	Ellaville	Modular Buildings	35
T & R Custom, Inc.	Ellaville	Office Buildings	47
Wrapit, Inc.	Ellaville	Laminated Wallboard	25 45
TCI, Inc. Greenfield Metal Products Co., Inc.	Ellaville Ellaville	Thermo Powder Coating Wire Shelving	45 45
Amermac, Inc.	Ellaville	Tire Trueing Equipment	45 7
Cooper Lighting	Ellaville	Modular Wiring Systems	, 150
New Heights, Inc.	Ellaville	Hydraulic Deer Stands	10
- 5 , -		Schley Total	615

Table 3-3 (continued)

Manufacturing Establishments Located Within 6-Mile Radius From U.S. Highway 19

Company	City	Product E	Total mployees
Sumter County			
Koinonia Products	Americus	Pecans	50
Gertrude Davenport	Americus	Women's Interlock Sportswear	53
Nevas Graphic Productions	Americus	Screen Printing	2
Georgia Forest Products, Inc.	Americus	Logging	35
Pickle Logging, Inc.	Americus	Wood Chips	15
Valley Wood, Inc.	Americus	Forest Products	4
Cana, Inc.	Americus	Cabinet Doors	84
TriWood Corporation of Georgia, Inc.	Americus	Interior MDF Moulding	62
Fine Cabinetry & Woodworking	Americus	Wooden Household Furniture	6
Huntington Woodcraft	Americus	Residential Cabinets	3
Rush Components, Div. Rush Industries	Americus	Component Parts	NĹ
Container Marketing, Inc.	Americus	Upholstered Chairs & Love Seats	142
Old Biscayne Designs, Inc.	Americus	Iron Furniture	30
Williams Furniture Industries Inc.	Americus	Office Chairs	49
Americus Times-Recorder	Americus	Newspaper Printing	25
The Americus Shopper	Americus	Shoppers Guide Publishing	NL
American Banc Supply Co., Inc.	Americus	Bank Forms	14
Gammage Print Shop, Inc.	Americus	Offset Job Printing	14
Hickory Springs Mfgr. Co.	Americus	Polyurethane Foam	105
Royster-Clark, Inc.	Americus	N-P-K Fertilizer	76
I M C Agribusiness	Americus	Fertilizer Blending	10
Reeves Construction Co.	Americus	Asphalt Paving Compounds	125
Austin Urethane. Inc.	Americus	Flexible Polyurethane Foam	63
The Concrete Co.	Americus	Ready-Mixed Concrete	8
Simplex Nails, Inc.	Americus	Roofing Nails	60
Insul Windo Co.	Americus	Storm Windows & Doors	2
Mendustries	Americus	Aluminum Storm Windows & Doors	s 1
Hernandez Fabricated Products	Americus	Steel Fabricated Products	4
Jones Automatic Sprinkler, Inc.	Americus	Sprinkler System Pipe	85
Nabco	Americus	Plumbing Pipes	14
TAG Tool & Die, Inc.	Americus	Metal Stamping Dies	5
Auto Machine & Parts Co.	Americus	Machine Shop	1
Johnson Metal Products	Americus	Machine Shop	5
Cooper Lighting - Fluorescent Oprs.	Americus	Fluorescent Lighting	850
Star Racing	Americus	Motorcycle Exhaust Systems	10
Textron Automotive Co.,			
Americus Operations	Americus	Plastic Automotive Components	924
Caravelle Marine, Inc.	Americus	Fiberglass Power Sport Boats	120
Lockheed Martin Assembly Services	Americus	Electronic Test Equipment	198
Jay & Bee Optical	Americus	Eveglasses	4
Easom Mfg. Corp.	Americus	Rings/Charms/Earrings	7
Bernecker Signs	Americus	Hand Lettered Signs	NL.
DeSoto Confectionery & Nut Co.	DeSoto	Candy	NL
	200010	Sumter Total	3,265
			-,••

Table 3-3 (continued)

			Total
Company	City	Product	Total Employees
Taylor County			
Peed Bros. Inc.1	Butler	Prepared Animal Feed	9
M F & H Textiles, Inc.1	Butler	Specialty Dyeing & Finishing	77
Taylor County News1	Butler	Weekly Newspaper	2
Benns Printing Co.1	Butler	Brochures	4
Suggs Machine & Welding Co., Inc.1	Butler	Shellers, Cleaners & Graders	7
BAE Systems1	Butler	Wiring Harnesses Taylor Total	18 117
Thomas County			117
A & R Textile	Meigs	Draperies	10
Bowers Pulpwood & Timber Co., Inc.	Meigs	Pine/Hrdwd Timber & Pulpwood	3
Royster-Clark Farmarket	Meigs	Agricultural Chemicals	7
Sud-Chemie Adsorbents, Inc.	Meigs	Fullers Earth Products	79
Constant C., Inc. d/b/a C T Enterprises	Meigs	Pine Straw Rake	4
L & B Lumber Co.	Ochlocknee	Wooden Pallets	8
Oil Dri Corp. of Georgia	Ochlocknee	Oil & Grease Absorbants	224
Ochlocknee Metal Works	Ochlocknee	Metal Fabrication	3
Blackberry Patch	Thomasville	Jams & Jellies	10
Flowers Baking Co. of Thomasville	Thomasville	Bread	163
Prestige Ice Co., Inc.	Thomasville	Packaged Ice	15
Yarn Extrusion Systems, Inc. (YES)	Thomasville	Polypropylene Yarn	7
Coats American	Thomasville	Finished Thread	250
George Stafford & Sons	Thomasville	Hunting & Sports Clothing	19
Warners	Thomasville	Intimate Apparel	591
Coffee Interiors, Inc.	Thomasville	Curtains & Draperies	10
The Design Center	Thomasville	Custom Draperies	5
Thomasville Home Furnishings, Inc.	Thomasville	Curtains & Accessories	90
A T & N Lumber LLC	Thomasville	Re-Sawing	8
Balfour Lumber Co., Inc.	Thomasville	Dressed Softwood Lumber	126
Braceys Fine Woodwork	Thomasville	Cabinets	18
Strickland Cabinet & Millwork, Inc.	Thomasville	Wood Cabinets	9
Georgia Crate & Basket Co., Inc.	Thomasville	Wire Bound Boxes	120
Southern Manor Furniture Corp.	Thomasville	Furniture	53
Thomasville Bedding Co.	Thomasville	Mattresses	18
Thomasville Office Furniture	Thomasville	Office Furniture	50
Designs by Bentwood, Inc.	Thomasville	Cheese Boxes	9
Capital Packaging, Inc.	Thomasville	Printed Folding Cartons	65
Thomasville Times-Enterprise	Thomasville	Newspaper Publishing	95
Barnes Printing Co.	Thomasville	Commercial Offset Printing	11
Advance Printing of Thomasville, Inc.	Thomasville	Commercial Printing	6
Ponders, Inc.	Thomasville Thomasville	Commercial Printing	23
Fragrance Solutions	Thomasville	Air Fresheners	100 65
Centek Industries, Inc.	Thomasville	Wet Marine Exhaust Mufflers	135
Georgia Pipe Co. National Pipe and Plastic	Thomasville	PVC Pipes PVC Pipes	93
Quality Container	Thomasville	Plastic Pharmaceutical Bottles	93 32
Imperial Packaging Co.	Thomasville	Plastic Products	48
Rose City Glass, Inc.	Thomasville	Glass	40
Southern Siding & Exteriors	Thomasville	Glass	10
Florida Southern Industries	Thomasville	Concrete Blocks & Bricks	7
	THOMASVIIC		'

Table 3-3 (continued)

Manufacturing Establishments Located Within 6-Mile Radius From U.S. Highway 19

			Total
Company	City	Product	Employees
Courthown Concrete /A Div, of Florida Dool	Themesuille	Deady Mixed Concrete	10
Southern Concrete/A Div. of Florida Rock	Thomasville	Ready-Mixed Concrete	12 5
Gross Vault & Monument Co.	Thomasville	Granite Monuments	-
MDI Corp. (Microtool Development Ind.)	Thomasville	Carbide PCB Cutting Tools	5
Cives Steel Company	Thomasville	Structural Steel	120
Kinro, Inc.	Thomasville	Aluminum Windows	148
Cleaver-Brooks/Div. of Aqua-Chem, Inc.	Thomasville	Boilers	250
Maxwell Sheet Metal Works, Inc.	Thomasville	Sheet Metal Work	6
McGarrah Sheet Metal, Inc.	Thomasville	Sheet Metal Work	2
R & H Roofing & Sheet Metal	Thomasville	Sheet Metal Ductwork	16
Searcy Sheet Metal, Heating & Air	Thomasville	Heat/Air Sheet Metal Ducts	4
Metal Buildings, Inc.	Thomasville	Engineered Buildings	60
Radoll Designs, Inc.	Thomasville	Trimming Machines	20
W. D. Laramore Mfg., Inc.	Thomasville	Dusting Flour Recycling Systs.	10
Aqua Kinetics, Inc.	Thomasville	Ind. Water Heaters (Gas & Oil)	26
U.S. Filter Davis/Davco	Thomasville	Water Pollution Control Equip	230
Bennetts Machine & Welding	Thomasville	Machine Shop	5
C & S Machine Co., Inc.	Thomasville	Machine Shop	18
Cone Machinery, Inc.	Thomasville	Sawmill Machinery Parts	45
G & J Machine Shop	Thomasville	Machine Job Shop	8
Hurst Welding Co.	Thomasville	Machine Shop	NL
Carroll Hill Auto Electric, Inc.	Thomasville	Starters	5
Caterpillar, Inc.	Thomasville	Fuel Systems	90
Turbine Engine Components Textron	Thomasville	Jet Fan & Compressor Blades	364
		Thomas Total	4,056
Upson County			
Yorks Meat Plant	Thomaston	Beef & Pork Slaughtering	2
Thomaston Mills, Inc., Peerless Div.	Thomaston	Sheets & Sheeting	468
Thomaston Mills, Inc., Finishing Div.	Thomaston	Bleaching & Finishing Fabrics	673
WesTek Inc.	Thomaston	Tire Cord Fabrics	524
Thomaston Mills, Inc., Lakeside Div.	Thomaston	Comforters	295
Foster Wood Products	Thomaston	Pine/Wood Flooring	5
Keadle Lumber Enterprises, Inc.	Thomaston	Yellow Pine & Pressure Treated	125
Bell Creek Wood Products, Inc.	Thomaston	Wooden Shipping Pallets	5
International Paper	Thomaston	Folding Paperboard Cartons	161
The Thomaston Times	Thomaston	Newspapers	16
Hometown Printers, Inc.	Thomaston	Offset Job Printing	10
DeSter.ACS Americas	Thomaston	Plastic Airplane Utensils	261
Upson Septic Tank Sales Service	Thomaston	Septic Tanks	3
The Concrete Co.	Thomaston	Ready-Mixed Concrete	5
Crown North America	Thomaston	Fabricated Steel Products	72
Woodbury Box Co., Inc.	Thomaston	Wire Forming	59
Yamaha Music Manufacturing, Inc.	Thomaston	Pianos	350
		Upson Total	3,034
		TOTAL	14,192

NL Not listed.

¹ U.S. 19 and Fall Line Freeway intersection, also listed with Fall Line Freeway

Source: Selig Center for Economic Growth, Terry College of Business, The University of Georgia, based on: Office of Information Technology Services, Georgia 2000 Information System. Manufactures data based on the Georgia Manufacturing Directory (GDITT).

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Table 3-4

Manufacturing Establishments Located Within 6-Mile Radius From the South Georgia Parkway

Company	City	Product	Total Employees
Atkinson County			
Willacoochee Industrial Fabrics ¹ Pak Unlimited, Inc. L & M Supply Co., Inc. Hodges Mfg. Co., Inc.	Willacoochee Willacoochee Willacoochee Willacoochee	Woven Polypropylene Fabric Woven/Knit Shade Cloth Silt Fences Cargo Restraint Straps	44 30 NL 4
Fleetwood Eagletrace II ¹	Pearson	Manufactured Housing	191
Fleetwood Homes of Georgia, Inc. ¹ Langboard, Inc. S & J Manufacturing, Inc.	Willacoochee Willacoochee Willacoochee	Manufactured Housing Medium Density Fiberboard 18-32 Runabouts & Cruisers Atkinson Total	200 139 68 676
Berien County Hubert Moore Lumber Co., Inc. Atlas Greenhouse Systems	Alapaha Alapaha	Softwood Lumber Steel Framed Greenhouses Berrien Total	79 24 103
Brantley County Ira Brown Mills, Inc. Designing Windows & More, Inc. Flowers & Sons Logging Middleton Logging, Inc. Varn Wood Products The Brantley Enterprise Lang Smoker Cookers & BBQ Grills	Nahunta Waynesville Hortense Nahunta Hoboken Nahunta Nahunta	Dairy Cattle Feed Custom Window Treatments Logging Timber Lumber Newspaper Publishing Mobile BBQ Smokers & Grills Brantley Total	4 5 NL 18 69 5 4 105
Glynn County Atlas Sign & Mfg. Co. Brunswick News Publishing Co. C. R. Carlin Co. Calsilite Insulation Products Certex Adler Sling Flexer Enterprises, Inc. Georgia-Pacific Brunswick Operations Georgia-Pacific Corp., Gypsum Div. Hercules Incorporated Insty-Prints Ireland Draperies Island Cypress Co., Inc. Jered Industries, Inc. Kemp Steel Fabricators Kut Kwick Corp. Millennium Specialty Chemicals Neeld Printing House, Inc. Readdick Sheet Metal Works of Glynn, Inc. Readick Sheet Metal Works of Glynn, Inc. Readi I Ce South Georgia Millworks, Inc. Southdown, Inc. The Harbor Sound Unique Straight Line Moldings, Inc.	Brunswick Brunswick	Screen Process Printing Newspaper Printing General Machining Job Shop Pipe Covering/Block Insulation Wire Rope & Slings Sweat Shirts & Pants Bleached Sulphate Pulp Gypsum Building Materials Gum and Wood Resins Lithographic Printing Draperies Pulpwood Container Handling Equipment Steel Fabrication Commercial Rotary Mowers Aromatics Offset Job Printing Sheet Metal Work Commercial Printing Ice Custom Residential Millwork Ready-Mixed Concrete Weekly Newspaper Moldings Glynn Total	4 62 2 130 4 32 806 132 394 5 1 1 8 185 2 34 40 10 13 8 5 11 47 7 3 1,955

Table 3-4 (continued)

Manufacturing Establishments Located Within 6-Mile Radius From the South Georgia Parkway

Company	City	Product	Total Employees
Stewart County	Disbland	Dellata & Clida	20
Dudley Pallet & Box Co., Inc.	Richland Richland	Pallets & Skids Manufactured Homes	30 193
Redman Homes, Inc. Stewart-Webster Printing, Inc.	Richland		193
Surles Welding & Equipment Co.	Richland	Offset Printing Switch Plow Drags	0
Suries Weiding & Equipment Co.	Nonianu	Stewart Total	232
Terrell County		Stewart I Star	LJL
Tyson Foods, Inc.	Dawson	Chicken Hot Wings	250
Christie Feeds	Dawson	Hog Feed	3
Cargill Peanut Products	Dawson	Peanut Products	230
Harber Apparel	Dawson	Active Wear	125
Dawson Tarpaulins	Dawson	Tarpaulins	33
Georgia Awning & Canopy	Dawson	Awnings & Canopies	7
The Dawson News, Inc.	Dawson	Newspaper Printing	6
Oliver Printing Co.	Dawson	Commercial Printing	3
Locke Farm Center	Dawson	Fertilizer	31
Dawson Mfg. Co.	Dawson	Rubber Goods Bonded to Metal	149
McMath Brothers, Inc.			
dba Tri-County Ready-Mix Concrete	Dawson	Mixed Concrete	9
Mac Products Co., Inc.	Dawson	Architectural Millwork	10
Metalwerk	Dawson	Metal Fabrications	3
Tiff County		Terrell Total	859
Tift County	Tifton	Most Processing Doof	40
Curtis Packing Co., Inc. Towson Cold Storage Co., Inc.	Tifton	Meat Processing, Beef Beef Processing	40 5
Donald Enterprises	Tifton	Cornmeal Products	10
Consolidated Nutrition LC	Tifton	Dairy Feed	24
W. B. Fleming Co.	Tifton	Livestock Feed	24
Chickasha of Georgia	Tifton	Cottonseed Oil	71
Royal Crown Bottling Co. of Tifton	Tifton	Soft Drinks	23
South Georgia Ice Co. of Tifton	Tifton	Block Ice	11
OMC - Tifton	Tifton	Apparel Fabric	160
Avondale Mills Inc., Tifton Plt.	Tifton	Carded Cotton Yarns	233
Shaw Industries, Inc.	Tifton	Spun Yarn	NL
Shaw Industries, Inc.	Tifton	Synthetic Carpet Yarn	246
Burlen Corporation	Tifton	Ladies Lingerie & Underwear	545
Collins Paints & Cabinets, Inc.	Tifton	Wood Kitchen Cabinets/Vanities	4
S & S Cabinets, Inc.	Tifton	Wood Kitchen Cabinets	15
McGregor Pallets	Tifton	New & Recycled Wood Pallets	12
Chas Cabinets, Etc.	Tifton	Entertainment Centers	2
International Paper	Tifton	Paper Bags	300
The Tifton Gazette	Tifton	Newspaper Printing	46
Nelson Printing & Signs	Tifton	Commercial Printing	5
Georgia Printing Co., Inc.	Tifton	Commercial Printing	5
Lang Printing & Office Supply	Tifton	Printing Description of the second s	12
City County Service Co.	Tifton	Bookbinding	6
Brownlee Farm Center, Inc.	Tifton	Blend Bulk Fertilizers	10

Table 3-4 (continued)

Manufacturing Establishments Located Within 6-Mile Radius From the South Georgia Parkway

Company	City	Product	Total Employees
Company	eng	1100000	
Tift County (continued)			
Royster-Clark, Inc.	Tifton	Fertilizer Mixing	4
Royster-Clark, Inc.	Tifton	Mixed Fertilizer	14
Bold Corporation	Tifton	Lqd./H2O Dispersible Granules	8
Double A Concrete Products	Tifton	Concrete Blocks & Bricks	27
Eaton Ornamental Concrete, Inc.	Tifton	Cement Statues & Fountains	24
Tifton Aluminum Co., Inc.	Tifton	Aluminum Extrusions	400
Taylor Made Systems GA Inc.	Tifton	Aluminum Frames - Windshields	30
Tifton Steel Products	Tifton	Roofing	20
FABRAL	Tifton	Aluminum Panels	26
Steel Span, Inc.	Tifton	Metal Buildings	73
FASTEC	Tifton	Steel Screws	15
Master Craft Engineering Co., Inc.	Tifton	Metal Stampings	51
First Products, Inc.	Tifton	Fertilizer Applicators	29
Kelley Manufacturing Co.	Tifton	Poultry House Cleaners	220
Master Craft Industrial Equip. Corp.	Tifton	Rough Terrain Forklifts	48
A & A Tool Co. of Georgia, Inc.	Tifton	Tools, Dies, Jigs & Fixtures	6
Heatcraft RPD	Tifton	Commercial Refrigeration Equip.	300
Tifton Machine Works	Tifton	Machine Shop Job Work	37
Prestolite Wire Corp.	Tifton	Spark Plug Wires	500
Tri-State Outdoor Media Group, Inc.	Tifton	Custom Billboards	87
		Tift Total	3,730
Ware County			
Flanders Provision Co.	Waycross	Portion Control Meats	41
Ware Milling Co.	Waycross	Horse Feed	10
Sioux Honey Association	Waycross	Honey	5
Matts Jackets Co.	Waycross	School Letter Jackets	25
Georgia Headwear & Apparel	Waycross	Baseball Caps	87
Transco Group, Inc.	Waycross	Baseball Caps	75
Wilmar Sportswear	Waycross	Caps	7
G & H Logging, Inc.	Waycross	Logging	6
Dixons Cabinet Shop	Waycross	Kitchen Cabinets	2
Hickox Cabinets Co.	Waycross	Custom Cabinets	5
Jamestown Cabinets	Waycross	Custom Cabinets	4
Southern Builders	Manor	Wooden Cabinets	3
Eldridge Hardware	Waycross	Pre-Fabricated Trusses	17
Clayton Homes	Waycross	Mobile Homes	170
General Manufactured Housing, Inc.	Waycross	Mobile Homes	650
Garys Iron Works	Waycross	Indoor/Outdoor Metal Furniture	3
Custombilt Products Co., Inc.	Waycross	Post Formed Countertops	11
General Packaging & Products Co., Inc.	Waycross	Corrugated Containers	37
General Box Co.	Waycross	Paperboard Packaging	80
Waycross Journal-Herald	Waycross	Newspaper Printing	35
Yarbrough Bros., Inc.	Waycross	Commercial Printing	8
Brantley Printing Co. & Office Supls.	Waycross	Commercial Printing	23
Hebardville Printing Co., Inc.	Waycross	Commercial Printing	7
Walker Office City Inc.	Waycross	Commercial Printing	11
Waycross Shopper	Waycross	Newspaper Typesetting	7

Table 3-4 (continued)

Manufacturing Establishments Located Within 6-Mile Radius From the South Georgia Parkway

Company	City	Product	Total <u>Employees</u>
Ware County (continued)			
BOC Gases	Waycross	Acetylene Gases	8
Gillis Bros., Inc.	Millwood	Fertilizer Blending	11
Dixie Roadbuilders, Inc.	Waycross	Asphalt Paving	92
Waycross Molded Products	Waycross	Auto Mats	385
Georgia Block and Brick	Waycross	Concrete Block	13
Pope Concrete Products, Inc.	Waycross	Concrete Burial Vaults	7
The James Co., Inc.	Waycross	Burial Vaults	48
Dixie Redi-Mix Concrete	Waycross	Ready-Mixed Concrete	10
Littlefield Concrete Co.	Waycross	Ready-Mixed Concrete	9
Bailey Monument Co.	Waycross	Marble Monuments & Markers	27
Leons Ceramic Molds	Waycross	Ceramic Molds	1
Conleys Sheet Metal Works, Inc.	Waycross	Air Cond. & Heating Ducts	12
Lee Sheet Metal	Waycross	Sheet Metal Fabrication	2
J & J Metal Fabrication	•		
d/b/a Country Boy Equipment	Millwood	Log Trailers	0
IMTEC, Inc.	Waycross	Custom Machining	26
Waycross Machine Shop	Waycross	Machine Job Shop	9
Nasco Engine Rebuilders, Inc.	Waycross	Automotive Engine Rebuilding	7
Carolina Skiff, Inc.	Waycross	Fiberglass Boats	155
GATX Rail	Waycross	Railroad Tank Car Repairs	104
Wells Cargo (South), Inc.	Waycross	Commercial & Indus Trailers	98
Fox Sign Co.	Waycross	Custom Signs	4
		Ware Total	2,357
Worth County			
Miller Brothers Packing Co., Inc.	Sylvester	Prime Beef Cuts	10
Universal Blanchers	Sylvester	Peanut Processing (Roasting)	151
ConAgra Grocery Products Co.	Sylvester	Peanut Butter	100
InterWrap Industries Corp.	Sylvester	Spiral Textile Tubing	22
Reese Building Components	Sylvester	Wood Trusses	44
Craftmade Homes, Inc.	Sylvester	Mobile Homes	155
Continental Specialty Co.	Ту Ту	Parson Chairs	53
Sylvester Local News	Sylvester	Newspaper Publishing	7
Sumner Rainbow Farm Service	Sylvester	Fertilizer	6
Agro Distribution, LLC	Sylvester	Agricultural Chemicals	17
Southern Concrete/A Div. of Florida Rock	Sylvester	Ready-Mixed Concrete	3
Helms Welding & Machine	Sylvester	Agricultural Machine Parts	4
Georgia-Florida Cleaning Systems, Inc	Sylvester	Pressure Washers	10
K M K Welding	Sylvester	Barbecue Cookers	3
Park Built Body Co., Inc.	Sylvester	Steel Flats - Farm Bodies	27
Worth Mfg.	Sylvester	Mobile Home Chassis	NL
P.R. & D. Inc.	Sylvester	Micro Elec. Sports Med. Eqp.	17
		Worth Total	629
		TOTAL	10,646

NL Not listed.

¹South Georgia Parkway and U.S. 441 intersection. Also listed with U.S. 441

Source: Selig Center for Economic Growth, Terry College of Business, The University of Georgia, based on: Office of Information Technology Services, Georgia 2000 Information System. Manufactures data based on the Georgia Manufacturing Directory (GDITT)

REFERENCES

Bachtel, Douglas C., Ragsdale, Mick, and Dowd, Kelly E. (1997). *An Analysis of the Governors Road Improvement Program (GRIP) for the Georgia Department of Transportation*. Department of Housing and Consumer Economics, The University of Georgia, Athens, Georgia.

Floyd, Charles F. (1985). *A Developmental Highway System for Georgia*. College of Business Administration, The University of Georgia, Athens, Georgia.

Minnesota IMPLAN Group, Inc. IMPLAN Professional Economic Impact Assessment Software System: Version 2.0.1020. Stillwater, MN.

Rioja, Felix (1999). *Road Construction and Regional Development*. Fiscal Research Program, School of Policy Studies, Georgia State University, Atlanta, Georgia.

Taylor, Teresa D., Broder, Josef M., and McNamara, Kevin T. (1990). *Some Economic Impacts of Developmental Highways in Rural Georgia*. The Georgia Agricultural Experiment Stations, College of Agriculture, The University of Georgia, Athens, Georgia.