

**AN ECONOMIC AND DEMOGRAPHIC  
OUTLOOK: A TWENTY-YEAR PROJECTION**

**Prepared for:**

**Savannah Economic Development Authority**

**As Prepared by:**

**The Bureau of Business Research and Economic Development**

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## **ECONOMIC AND DEMOGRAPHIC OUTLOOK: A TWENTY YEAR PROJECTION**

### **Introduction**

The following presents the results of a twenty year projection of employment for State Service Delivery Regions 7, 9, 11, 12, and the Savannah Area. The projections are the baseline estimates from the model for each of the regions developed in the REMI Policy Insight 2000. The discussion includes an analysis of the predicted changes: in employment by sector, employment by occupation, population.

### **About REMI and the Baseline Forecasts**

REMI is an economic forecasting and policy model. In particular, it is a structural model meaning that it employs a system of equations describing the behavior, or cause and effect, of the economy. The REMI model is essentially demand driven in that the demand for the goods and services the region produces creates a demand for labor. Labor is supplied in two ways. One source of labor comes from natural increase, a region's population reproducing itself. The second source of labor comes from net migration, more people moving into a region than those moving out.

In the case of a baseline forecast, REMI has incorporated into the model an estimate of the rate at which U.S. Gross Product is expected to grow during the next year. After year one, the rate of growth in U.S. Gross Product is expected to revert to a rate consistent with its path over the last twenty years. The rate of growth of Georgia's Gross Regional Product (GRP) is estimated from the U.S. growth rate. The growth rate of GRP for sub-region's of Georgia, such as Region 12, are estimated from the Georgia growth rate.

Gross Product measures the total value of all new goods and services produced in one year. However, its calculation is divided into sectors of aggregate demand which include the total amount of goods consumed by households and governments, the amount invested by business, and the value of the goods and services sold to everyone outside of the U.S. less that amount the U.S. purchased from other economies. For a sub-region of the U.S. like Georgia, imports and exports include all of the goods and services bought from or sold to other parts of the U.S. For a sub-region of Georgia like Region 12, imports and exports include the goods and services bought from or sold to everyone outside the region.

Changes in Gross Product, Gross Regional Product, or Aggregate Demand in the REMI model causes changes to all of the other variables in the model. This report discusses how the expected changes in Aggregate Demand induced from the growth in the U.S. and Georgia economies result in changes in employment by sector and changes in employment by occupation in each of the regions. Changes in employment in each region are compared to the changes in other regions along with an analysis changes in population.

In the Baseline Forecast for REMI 2000, U.S. Gross product was expected to grow about 3% per year. This was a slightly slower rate of growth than the forecasts estimated in REMI 1999.<sup>1</sup> Hence, in the early years of the forecasts there was an effect from the 2000/2001 recession. This results in slightly lower 20 year forecasts than previous estimates.<sup>2</sup>

### **An Aside on the Relationship Between Employment and Population Growth**

The REMI model is built around the basic concept that changes in relative employment opportunities between regions result in migration. For example, if a new company opens a manufacturing facility somewhere in Coastal Georgia which will employ 5,000 people, a series of events will take place. First, all available labor with the most appropriate set of skills earning less than the new jobs will pay will move to take the new positions. Suppose that this adjustment provides 1,000 of the necessary workers for the facility. Since these are not enough employees to fill all of the jobs, there will be upward pressure on wages in order to attract a few more qualified workers. As the wage starts to rise, workers outside the region who have the necessary skills, but are currently paid less will begin to move. Having filled 1,000 of the jobs from the local market has left 1,000 jobs open in other firms that are also seeking new workers. The combination of available positions and upward trending wages cause workers to move into the region thus increasing population by increasing the labor force.

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<sup>1</sup> See *An Assessment of Workforce Development Needs Part I Supplying the Demand for Labor: Regional Growth, Projected Changes in jobs by Industry and Attendant Increases in Population*, BBRED, August 15, 2000.

<sup>2</sup> *Ibid.*

However, population increases also create a source of increase in aggregate demand. A significant component of migration to Georgia and to the Coastal Empire is non-economic migration. The rate of growth in Georgia's population has been among the fastest in the nation. In the 1970s, Georgia's population grew by 19%. In the 1980s, the state's population grew by 18.6%. In the 1990s, Georgia's population grew by 18%. Between 1990 and 2000, Georgia's population growth was 26%.

Regionally, area population has grown between 10% and 15% per decade since 1970. Some of the growth has been a result of a reasonably strong regional economy. However, some of the population growth has been the result of the region's bounty of unspoiled coast, mild winter climate and lower cost of living relative to similar areas in Florida. This population growth is an industry and economic development engine in and of itself.

REMI divides population growth into three components: economic migration; non-economic migration; and, natural population growth. Net creation of new jobs contributes to the first type of migration. Amenities and the region's natural attractiveness produce the second type of migration. As net in-migration increases population, natural populations growth also increases.

This report examines the demand for labor, by type of industry sector and by type of occupation, that region's economy will generate over the next twenty years. It assumes no structural change in the region's economy during that period. The process of modeling structural change and a case study based on the estimated impact of the new School of Information Technology at Georgia Southern University will be discussed in a later chapter of this report.

## Overview of Findings

This section provides an overview of the findings comparing the regions. The more detailed findings for each region are presented in the following chapters. The purpose of this section is to provide a comparative overview of the expected number of jobs by occupation. The four State Service Delivery Regions and Savannah Area in southeast Georgia will be analyzed in the following section by percentage change of occupation over twenty years. Figure 1 displays the study areas.

The following table, Table 1, shows the percentage changes in jobs by occupation over the twenty year period, 2000 to 2020.

The percent changes in blue are the occupations which will grow faster than twice the percent of growth in Private Non-Farm employment in that region.

For example, if Private Non-Farm

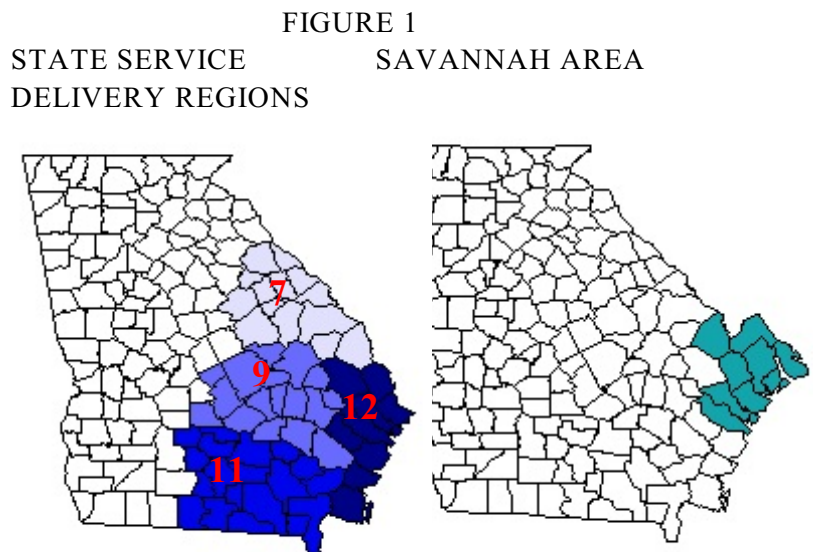
employment is expected to grow by 9%, every sector that is performing at 18% or higher will be labeled in blue. Please note that the average rate of growth for Private Non-Farm employment is

different for each region. The average growth rate for Private Non-farm employment by region are:

Region 7, 9.06%; Region 9, 9.96%; Region 11, 9.21%; Region 12, 14.15%; and the Savannah Area;

11.66%. Occupations growing faster than Private Non-Farm employment up to twice the percent of growth are labeled in green. Occupations growing by the same percent as Private Non-Farm

employment or less are labeled in orange, and occupations that will lose jobs are labeled in red.



**TABLE 1**  
**Percentage Change of Occupations by Region over 20 Years**

<b>OCCUPATIONS</b>	<b>Region 7</b>	<b>Region 9</b>	<b>Region 11</b>	<b>Region 12</b>	<b>Savannah Area</b>
<b>Executive, adm. &amp; managerial</b>					
Managerial & administ	9%	10%	10%	15%	13%
Management support	7%	8%	13%	13%	12%
<b>Professional Specialty</b>					
Engineers	24%	35%	44%	24%	25%
Architects & surveyors	10%	14%	16%	16%	13%
Life scientists	29%	21%	28%	36%	35%
Comput, math & oper res	96%	89%	91%	98%	98%
Physical scientists	18%	22%	22%	25%	25%
Social scientists	13%	13%	19%	19%	18%
Social, rec & relig wrkrs	37%	33%	41%	44%	41%
Judges, magis & oth judic wrkrs	-2%	-3%	1%	5%	4%
Lawyers	27%	29%	33%	34%	31%
Teachers, librarians, couns	13%	12%	17%	21%	20%
Health diagnosing	36%	33%	40%	44%	40%
Hlth assessmnt & treating	25%	23%	28%	32%	27%
Writers, artists & entertainers	16%	14%	17%	17%	15%
All other profes wrkrs	15%	11%	20%	18%	18%
<b>Technician &amp; rel support</b>					
Hlth technic & technologists	26%	23%	29%	34%	30%
Engin & scienc tech & technol	11%	15%	20%	14%	14%
Tech, xcpt hlth, engin & scienc	19%	14%	19%	22%	21%
<b>Marketing and Sales</b>					
Cashiers	2%	-1%	1%	6%	4%
Counter and rental clerks	20%	16%	18%	19%	16%
Insurance sales wrkrs	7%	18%	18%	15%	15%
Real est agents, brokers & apprais	-12%	0%	-4%	-4%	-4%
Salespersons, retail	-5%	-6%	-4%	-2%	-4%
Secur & finan serv sales wrkrs	-5%	5%	4%	1%	3%
Mktng & sales worker suprvisrs	4%	4%	4%	9%	7%
Travel agents	39%	36%	39%	38%	39%
All other sales & rel wrkrs	10%	9%	5%	13%	12%
<b>Adm spprt, incl clerical</b>					
Adjstrs, investiga & collectors	13%	13%	16%	20%	19%
Communic equip operators	-40%	-40%	-38%	-34%	-35%
Comput oper & periph equip oper	-56%	-53%	-53%	-53%	-53%
Fin records processing	-14%	-15%	-15%	-9%	-11%
Information clerks	18%	18%	21%	27%	26%
Mail clerks & messengers	-6%	-8%	-4%	-1%	-2%
Post clerks & mail carriers	14%	14%	14%	14%	14%
Material rec, sched, disp & distr	-11%	-9%	-10%	-6%	-8%
Recrd processing, xcpt fin	-3%	-1%	-1%	2%	1%
Secretar, stenog & typists	-17%	-17%	-15%	-13%	-14%
Oth cleric & admin spprt wrkrs	4%	5%	7%	11%	10%



**TABLE 1 CONTINUED**  
**Percentage Change of Occupations by Region over 20 Years**

<b>OCCUPATIONS</b>	<b>Region 7</b>	<b>Region 9</b>	<b>Region 11</b>	<b>Region 12</b>	<b>Savannah Area</b>
<b>Service</b>					
Clean & bldng serv, ex priv hh	-1%	-1%	1%	10%	8%
Food prep and service	8%	7%	8%	11%	9%
Health service	33%	31%	38%	41%	37%
Personal service	38%	36%	39%	38%	33%
Private household wrkrs	-20%	-25%	-22%	-21%	-22%
Protective service	18%	19%	24%	27%	25%
All other service wrkrs	14%	12%	16%	22%	19%
<b>Agri, for, fish &amp; rel</b>					
Anim brdrs&trnrs; caretak, ex farm	22%	16%	20%	45%	42%
Farm wrkrs	-17%	-22%	-19%	8%	5%
Farm oper & managers	-10%	-15%	-12%	18%	15%
Fish, hunters & trappers	-50%	-53%	-51%	-35%	-36%
Forestry & logging	1%	10%	2%	11%	9%
Gard, nurs, greenhse, lawn serv	16%	15%	18%	31%	27%
Supervisors, farm&for&agri rel	-2%	-6%	-4%	22%	17%
Veter asst, all other rel wrkrs	-6%	-12%	-9%	18%	14%
<b>Blue collr wrker supervisors</b>					
Blue collr wrker supervisors	4%	9%	8%	11%	8%
<b>Construction trades</b>					
Construction trades	0%	7%	4%	7%	2%
<b>Extract &amp; rel wrkres, incl blaster</b>					
Oil and gas extraction	0%	0%	0%	11%	25%
Mining, quarry & tunneling	-15%	-50%	0%	0%	14%
All other extraction & rel wrkrs	4%	10%	11%	6%	6%
<b>Mechan, installers &amp; rep</b>					
Commun equip mech, inst & rep	-9%	-9%	-10%	-12%	-11%
Electr equip mech, inst & rep	1%	3%	7%	0%	-2%
Mach&rel mech, inst & rep	-3%	6%	2%	6%	6%
Vhicle&mobile equip mech & rep	11%	4%	10%	14%	9%
Other mech, inst & rep	6%	3%	10%	12%	10%
<b>Production, precision</b>					
Assemblers, precision	22%	53%	75%	9%	15%
Food wrkrs, precision	-13%	1%	-2%	5%	-20%
Inspect, tsters & graders precis	-14%	-12%	-12%	-4%	-5%
Metal wrkrs, precision	23%	57%	36%	12%	12%
Printing wrkrs, precision	10%	15%	15%	11%	12%
Text, appar & furn wrkrs, precis	-13%	-15%	-23%	-6%	-10%
Woodwrkrs, precision	4%	14%	5%	12%	7%
Other precision wrkrs	2%	7%	7%	5%	3%
<b>Plant and System</b>					
Chemic plant & syst oper	35%	38%	8%	31%	30%
Elec pwr gen plant oper&distr&disp	-10%	-18%	14%	5%	10%
Gas & petro plant & syst	-6%	-25%	0%	-7%	-5%
Stationary engineers	-9%	-18%	2%	-6%	-5%
Water&liqu wste trtmnt plant&syst oper	6%	7%	15%	18%	18%
All other plant & syst oper	1%	6%	5%	8%	7%

**TABLE 1 CONTINUED**  
**Percentage Change of Occupations by Region over 20 Years**

<b>OCCUPATIONS</b>	<b>Region 7</b>	<b>Region 9</b>	<b>Region 11</b>	<b>Region 12</b>	<b>Savannah Area</b>
<b>Mach setters &amp; oper &amp; tenders</b>					
Num ctrl mach tool oper, met&plast	74%	119%	100%	54%	58%
Comb mach tool setters&oper&tnders	53%	96%	64%	25%	34%
Mach tool cut&form oper, met&plast	17%	47%	21%	-4%	3%
Metal fabricat mach oper	43%	83%	50%	11%	16%
Met&plast process mach oper	36%	64%	35%	13%	29%
Print, binding & rel wrkrs	-1%	-6%	4%	0%	3%
Textile and related oper	-43%	-42%	-52%	-12%	-29%
Woodworking mach oper	-11%	-2%	-10%	1%	-2%
Oth mach setters&oper&tnders	5%	10%	10%	9%	7%
<b>Hand wrkrs, incl assemb&amp;fabricat</b>					
Hand wrkrs, incl assemb&fabricat	14%	27%	22%	17%	12%
<b>Transp&amp;mater moving mach&amp; vchile oper</b>					
Motor vehicle operators	3%	4%	4%	9%	7%
Rail transportation wrkrs	-22%	-23%	-21%	-24%	-25%
Water transp & rel wrkrs	6%	10%	15%	15%	16%
Material moving equip oper	0%	8%	3%	9%	8%
All other transp&mat mov equip oper	7%	4%	8%	16%	14%
<b>Help, labrs &amp; mat movers hand</b>					
Help, labrs & mat movers hand	1%	0%	-2%	7%	3%

When looking at overall trends for all five regions, the two sectors with the highest growth are Professional Specialty and Technician & Related Support. Leading the sectors growth the jobs created in Computer, Mathematical, & Operations Research, and Health Technicians & Technologists. Region 11, 12 and the Savannah Area will show a growth of over 33% or more in almost all occupations over the twenty years in Professional Specialty category. The rate of growth across the Professional Speciality category of occupations is only slightly the growth in Regions 11 and 12 for Region 7 and 9 with 29% and 26% growth respectively for occupations in the Professional Specialty category. As for the Technician & Related Support, Regions 11, 12 and the Savannah Area are expected to grow about 25% and Region 7 and 9 about 20%. Even though these two sectors provide the highest growth, when looking in more detail there are variations in the performance of occupations within the categories.

Within the Professional Specialty Sector, as mentioned earlier, the Computer, Mathematical, & Operations Research occupation are by far the fastest growing; however, Health Diagnosing, Lawyers, Social, Recreational, & Religious Workers, Life Scientists, and Engineers provide high growth for all of the regions. In general, the growth is higher in Region 12 and the Savannah Area than in the other regions. The one occupation that is not performing in this sector is Judges, Magistrates, and Other Judicial Workers. In Regions 7 and 9 these occupations will have negative growth and in Regions 11, 12, and the Savannah Area it will be rather low growth as indicated in orange, meaning this group of occupations will have at or below the rate of growth in Private Non-Farm growth.

The Service Sector is another area that will provide high growth in job opportunities for the region. The two largest growth sectors over the twenty year period are Health Services, and Personal Services. On the other hand, there are three occupations that will either be slow growth or negative growth. Private Households Workers is expected to decrease between 25% and 20% making these occupations among the region's hardest occupations in this sector. Both Cleaning & Building Service and Food Preparations occupations will either have negative or slow growth.

The category Machine Setters, Set-up Operators, Operators, and Tenders will have tremendous growth in Regions 7, 9 and 11, but very little growth for Region 12 and the Savannah Area. The highest growth in occupations in this sectors is Numerical Control Machine Tool Operators and Tenders. The growth for Regions 7, 9 and 11 will be between 74% to 119% over the next twenty years; however, in Region 12 and the Savannah Area Numerical Control Machine Tool Operators and Tenders Occupations will grow faster than Private Non-Farm, but not as fast as the other regions, 54% and 58 respectively.

It is important to note that the Textile and Related Operators occupation is expected to continue to decline in the next twenty years for all five regions. Also, Inspectors, Testors and Graders occupations will be losing jobs in all regions.

Further, it should also be noted that some traditionally high growing occupations are not expected to grow very fast in the next 20 years. These include most occupations in Marketing and Sales and most occupations in Administrative Support and Clerical. Additionally there will be job losses in Communications Equipment, Installation and Repair, Power Plant Operators, Gas and Petroleum Plant & Systems and Stationary Engineers.

Finally, there will be average to above average growth in most Transportation Sector Occupations. Rail workers are the sole exception. Region 12 and the Savannah Area will have a stronger growth than the other regions in Executive, Administrative, & Managerial, Services, and Marketing and Sales related occupations. Even though Region 7, 9 and 11 will not have an overall growth compared to 12 and the Savannah Area, they do have some sectors that performed better. Those sectors include Extractive and Related Workers, Including Blaster, Precision Production, and Hand Workers, including Assembly & Fabricators. These relatively different growth rates in different sectors tend to emphasize the growth of the coastal region as a service center to the rural economies in southeast Georgia.

For more information on each region, this report is divided into sections. Each section will highlight the region's by identifying trends by employment by sector, employment by occupation, and population and demographic changes. The following index is a guide section covering each region:

REGION 7.....	11
REGION 9.....	25
REGION 11.....	36
REGION 12.....	46
SAVANNAH AREA.....	56

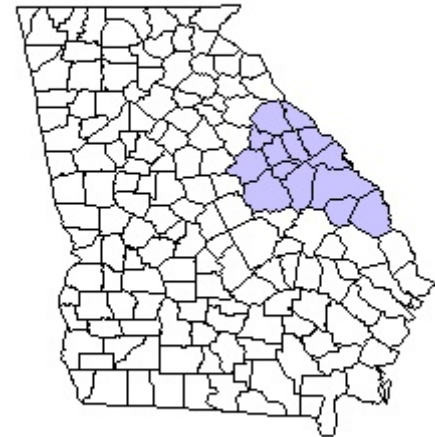
### **Conclusion**

The high growth occupations, across the board, require significant education and generally require not only competency, but comfort with Math, Science, and Technology. This is true whether one is looking at Professional Specialty Occupations, Technician & Related Support, Services or Manufacturing Occupations. The competency required in these occupations with respect to Math, Science and Technology extend beyond content. Workers in Occupations require the logic and reasoning skills which are part of Math and Science.

Readers seeking to devise training education and other workforce development programs will find two online resources very helpful. The first is [acinet.org](http://acinet.org), the career Info Net resource provided by the U.S. Department of Labor. The second source of assistance is *0\* Net* at [online.onetcenter.org](http://online.onetcenter.org). This site was also developed by the U.S. Department of Labor.

**Region 7: Burke, Columbia, Glascock, Hancock, Jefferson, Jenkins, Lincoln, McDuffie, Richmond, Screven, Taliaferro, Warren, Washington, and Wilkes.**

There are two primary measures of economic progress, the number of jobs an economy creates and the real income enjoyed by members of the economy. Both measures are reported here because they are not interchangeable. To illustrate this, consider that while incomes are the reward for work, it is quite possible to increase the number of jobs and not improve incomes. If, for example, a region loses high paying professional jobs and replaces those with low skilled jobs, total jobs can increase without total income increasing. In fact, incomes may actually decrease under this scenario.



REMI calculates Gross Regional Product (GRP) as a measure of the money value of goods and services produced and available in a region in a given period of time. GRP, in constant 1992 dollars, in Region 7 is expected to grow from \$10.80 billion in 2000 to \$16.18 billion in 2020. This represents a 50 % increase in GRP in a 20 year time span. This growth will result in an increase in total employment. Total employment will increase from 231,717 in 2000 to 249,717 in 2020, making a total increase of 17,999 in net new jobs or about an 8% increase, with Private Non-Farm employment increasing of 9.09%.

Real Disposable Personal Income is the amount of real dollars available for consumption and savings, in other words, it is the personal income minus taxes adjusted for deflation. Real Disposable Personal Income will grow from \$7.72 billion in 2000 to \$10.68 billion in 2020. This represents a 38% increase in Real Disposable Personal Income.

Overall, Region 7 is expected to show a steady increase in both jobs and real disposable income. The following three sections detail: employment by sector, employment by occupation, and population and demographic changes.

**TABLE 2**  
**Employment By Sector (Thous)**  
**Region 7**

<b>Employment</b>	<b>2000</b>	<b>2005</b>	<b>2010</b>	<b>2015</b>	<b>2020</b>	<b>%Change</b>
Private Non-Farm	173.628	180.425	183.835	187.590	189.416	9.09%
Government	53.243	54.717	56.355	56.647	56.649	6.40%
Farm	4.846	4.399	4.038	3.840	3.652	-24.64%
<b>Disaggregation</b>						
<i>Private Non-Farm:</i>						
<i>Manufacturing-Durable</i>						
Lumber	3.070	2.950	2.838	2.945	3.018	-1.69%
Furniture	0.680	0.670	0.626	0.708	0.759	11.62%
Stone,Clay,Etc.	1.579	1.459	1.361	1.376	1.380	-12.60%
Primary Metals	0.084	0.086	0.083	0.090	0.094	11.90%
Fabricated Metals	1.025	1.101	1.191	1.465	1.754	71.12%
Machin & Comput	2.286	2.280	2.572	2.911	3.192	39.63%
Electric Equip	0.318	0.323	0.331	0.383	0.428	34.59%
Motor Vehicles	0.078	0.078	0.070	0.076	0.079	1.28%
Rest Trans Equip	3.399	4.172	4.400	4.131	3.844	13.09%
Instruments	0.672	0.724	0.696	0.692	0.651	-3.13%
Misc. Manufact	0.177	0.170	0.155	0.143	0.132	-25.42%
<i>Manufacturing-NonDurable</i>						
Food	2.908	2.958	2.939	2.942	2.951	1.48%
Tobacco Manuf	0.000	0.000	0.000	0.000	0.000	0.00%
Textiles	4.876	4.324	3.673	3.285	2.868	-41.18%
Apparel	2.325	2.037	1.743	1.519	1.335	-42.58%
Paper	1.813	1.700	1.588	1.567	1.513	-16.55%
Printing	1.765	1.762	1.760	1.901	2.024	14.67%
Chemicals	1.846	1.919	1.945	2.065	2.145	16.20%
Petro Products	0.000	0.000	0.000	0.000	0.000	0.00%
Rubber	0.729	0.792	0.823	0.864	0.879	20.58%
Leather	0.000	0.000	0.000	0.000	0.000	0.00%
<i>Non-Manufacturing</i>						
Mining	1.754	1.727	1.691	1.581	1.485	-15.34%
Construction	13.768	13.596	13.415	13.426	13.499	-1.95%
Trans.&Public Util.	8.241	8.472	8.357	8.123	7.766	-5.76%
Fin&Ins&Real Est	10.105	9.876	9.509	9.201	8.843	-12.49%
Retail Trade	39.916	40.466	40.069	39.902	39.279	-1.60%
Wholesale Trade	5.938	5.919	5.715	5.645	5.472	-7.85%
Services	61.726	68.092	73.330	77.353	80.422	30.29%
Agri&For&Fish Serv	2.550	2.772	2.954	3.295	3.603	41.29%
<i>Government</i>						
State and Local	35.149	36.072	36.931	36.802	36.579	4.07%
Federal Civilian	6.516	6.265	6.206	6.313	6.326	-2.92%
Federal Military	11.577	12.380	13.218	13.532	13.744	18.72%



## **Employment by Sector**

Table 2, Employment by Sector, shows the expected change in employment by sector for 2000 to 2020, in five year increments. Employment by sector is broken down into the following categories: Private Non-Farm, Government, and Farm. Private Non-Farm employment is further sub-divided into Manufacturing Durable, Manufacturing Non-Durables and Non-Manufacturing. It should be noted that REMI counts jobs similar to the BEA (Bureau of Economic Analysis): counting full-time employment, full-time equivalent employment and double counting when an individual holds more than one job.

### Private Non-Farm, Farm, and Government

Private Non-Farm employment is expected to increase by 9.09% over the 20 year period. The majority of growth in the Private Non-Farm sector will take place between 2000 and 2010 with an anticipated growth of 10,207 jobs. Within the 20 years, 2000-2020, employment for Private Non-Farm will grow by 15,778 jobs.

In 2000, Farm employment was about 4,900 and will decrease steadily until 2020. By 2020, the Farm sector will have lost around 1,194 jobs. However, it should be noted that while Farm employment will decrease, Farming will continue to produce more than one third of the region's GRP.

In Region 7, the overall government sector's performance is one of the top growth sectors with respect to employment. The Government sector consists of State and Local, Federal Civilian, and

Federal Military segments and is expected to provide a total of 3,406 new jobs to this area by year 2020. However, a cautionary note must be interjected that, given in the present re-evaluation of military operations, military employment in the region may not grow and could in fact decline. This part of the forecasts of growth is at the greatest risk and the closure of a base in the region could significantly adversely impact the region's economy with up to 11,577 jobs at risk of loss to the region. However, If there is no change, Government will slowly but consistently increase from 53,243 jobs in 2000, to 56,649 jobs in 2020, representing a percent increment of 6.4%.

### Manufacturing Durables

Part of Private Non- Farm employment is the Manufacturing Durables Sector. This sector is expected to grow in three of its major categories: Transportation Equipment, Fabricated Metals, and Machine and Computer Equipment. Transportation Equipment occupations will grow by 13% adding 445 new jobs. Fabricated Metals is estimated to have a 71% growth by year 2020, increasing by 729 new jobs, and Machine and Computer Equipment is expected to post 906 new jobs to this area, at a 40% growth rate. The overall change in the Manufacturing Durables sector is a growth of 15%.

### Manufacturing Non-Durable

Unlike the Manufacturing Durables Sector, Manufacturing Non-Durables is expected to have a mixed performance, but will be dominated by a continued trend of job losses. The largest portion of this loss will come from the Textile and Apparel sectors. Textiles and Apparel combined will result in a loss of 2,998 jobs. In the next 20 years, Textiles will account for only 2,868 jobs in Region 7, as opposed to 4,786 in 2000. Other sectors will experience modest growth. The overall change in the Manufacturing Non-Durables sector is a loss of 16%.

## Non Manufacturing

The Non-Manufacturing sectors will provide the area with the most new jobs, although it will also experience a loss of jobs in certain sectors. Within Non-Manufacturing Agriculture, Forestry, and Fishing Services sectors, there will be a gain of jobs. The Services sector accounted for 27% of employment in 2000, and by 2020, will grow to 32% of the economy. A significant number, 18,696 new jobs, will be introduced to the economy through the Service sector. Services will show the largest growth in all of Region 7. In relation to employment, the growth that Services will offer will overshadow job losses in Mining, Transportation and Public Utilities, and FIRE (Finance, Insurance, and Real Estate). In those sectors, Region 7 will lose 2,006 jobs.

**TABLE 3**  
**Employment By Occupation (Thous)**  
**Region 7**

OCCUPATIONS	2000	2005	2010	2015	2020	%Change
<b>Executive, adm. &amp; managerial</b>						
Managerial & administ	13.865	14.393	14.701	14.969	15.106	8.95%
Management support	7.327	7.570	7.716	7.813	7.842	7.03%
<b>Professional Specialty</b>						
Engineers	2.262	2.479	2.627	2.725	2.796	23.61%
Architects & surveyors	0.229	0.233	0.236	0.245	0.252	10.04%
Life scientists	0.378	0.409	0.438	0.464	0.488	29.10%
Comput, math & oper res	2.566	3.406	4.152	4.609	5.040	96.41%
Physical scientists	0.366	0.382	0.395	0.415	0.432	18.03%
Social scientists	0.435	0.454	0.472	0.483	0.491	12.87%
Social, rec & relig wrkrs	3.091	3.488	3.823	4.039	4.220	36.53%
Judges, magis & oth judic wrkrs	0.221	0.219	0.220	0.219	0.217	-1.81%
Lawyers	0.852	0.914	0.969	1.031	1.083	27.11%
Teachers, librarians, couns	7.259	7.675	7.991	8.137	8.223	13.28%
Health diagnosing	1.272	1.413	1.539	1.639	1.724	35.53%
Hlth assessmnt & treating	5.045	5.467	5.830	6.097	6.299	24.86%
Writers, artists & entertainers	1.773	1.904	1.982	2.034	2.061	16.24%
All other profes wrkrs	1.361	1.437	1.499	1.536	1.559	14.55%
<b>Technician &amp; rel support</b>						
Hlth technic & technologis	4.450	4.837	5.170	5.417	5.609	26.04%
Engin & scienc tech & technol	2.130	2.213	2.267	2.326	2.360	10.80%
Tech, xcpt hlth, engin & scienc	1.771	1.890	1.991	2.054	2.101	18.63%
<b>Marketing and Sales</b>						
Cashiers	5.783	5.950	5.964	5.969	5.889	1.83%
Counter & rental clerks	0.832	0.900	0.950	0.981	0.997	19.83%
Insurance sales wrkrs	0.230	0.227	0.225	0.236	0.245	6.52%
Real est agents, brokers & apprais	0.242	0.234	0.227	0.220	0.214	-11.57%
Salespersons, retail	7.140	7.211	7.099	7.010	6.798	-4.79%
Secur & finan serv sales wrkrs	0.275	0.298	0.300	0.281	0.260	-5.45%
Mkting & sales wrkr superv	2.837	2.941	2.969	2.985	2.954	4.12%
Travel agents	0.054	0.060	0.064	0.070	0.075	38.89%
All other sales & rel wrkrs	4.504	4.725	4.852	4.943	4.976	10.48%
<b>Adm spprt, incl clerical</b>						
Adjstrs, investiga & collect	1.793	1.889	1.952	1.999	2.025	12.94%
Communic equip operat	0.410	0.366	0.320	0.285	0.247	-39.76%
Comput oper & periph equip oper	0.364	0.300	0.242	0.203	0.161	-55.77%
Fin records processing	4.023	3.850	3.675	3.586	3.460	-13.99%
Information clerks	2.898	3.085	3.218	3.339	3.424	18.15%
Mail clerks & messengers	0.357	0.354	0.348	0.343	0.335	-6.16%
Post clerks & mail carrier	1.008	1.031	1.070	1.120	1.153	14.38%
Material rec, sched, disp & distr	6.974	6.813	6.580	6.446	6.228	-10.70%
Recrd processing, xcpt fin	1.617	1.624	1.614	1.602	1.574	-2.66%
Secretar, stenog & typists	5.932	5.629	5.336	5.163	4.931	-16.87%
Oth cleric & admin spprt wrkrs	13.241	13.601	13.795	13.871	13.831	4.46%

**TABLE 3 CONTINUED**  
**Employment By Occupation (Thous)**

OCCUPATIONS	Region 7					%Change
	2000	2005	2010	2015	2020	
<b>Service</b>						
Clean & blding serv, ex priv hh	5.245	5.290	5.277	5.275	5.217	-0.53%
Food prep & service	13.688	14.163	14.316	14.557	14.729	7.61%
Health service	4.242	4.703	5.111	5.410	5.657	33.36%
Personal service	3.769	4.240	4.623	4.934	5.183	37.52%
Private household wrkrs	1.605	1.442	1.302	1.312	1.286	-19.88%
Protective service	7.655	8.243	8.737	8.899	9.020	17.83%
All other service wrkrs	1.991	2.096	2.164	2.222	2.264	13.71%
<b>Agri, for, fish &amp; rel Services</b>						
Anim brdrs&trnrs; caretak, ex farm	0.267	0.285	0.298	0.314	0.327	22.47%
Farm wrkrs	2.540	2.327	2.163	2.140	2.106	-17.09%
Farm oper & managers	0.512	0.482	0.459	0.462	0.462	-9.77%
Fish, hunters & trappers	0.066	0.053	0.043	0.038	0.033	-50.00%
Forestry & logging	0.303	0.297	0.291	0.300	0.307	1.32%
Gard, nurs, greenhse, lawn serv	2.718	2.852	2.944	3.054	3.151	15.93%
Supervisors, farm&for&agri rel	0.249	0.242	0.236	0.240	0.243	-2.41%
Veter asst, all other rel wrkrs	1.119	1.076	1.040	1.047	1.049	-6.26%
<b>Blue collr wrker supervisors</b>						
Blue collr wrkr supervisors	3.617	3.694	3.711	3.748	3.758	3.90%
<b>Construction trades</b>						
Construction trades	8.364	8.357	8.315	8.341	8.379	0.18%
<b>Extract &amp; rel wrkres, incl blaster</b>						
Oil & gas extraction	0.209	0.219	0.224	0.216	0.208	-0.48%
Mining, quarry & tunneling	0.066	0.065	0.064	0.059	0.056	-15.15%
All other extract & rel wrkrs	0.331	0.341	0.346	0.345	0.343	3.63%
<b>Mechan, installers &amp; rep</b>						
Commun equip mech, inst & rep	0.162	0.168	0.166	0.158	0.147	-9.26%
Electr equip mech, inst & rep	0.395	0.402	0.403	0.403	0.398	0.76%
Mach&related mech, inst & rep	3.397	3.395	3.342	3.328	3.284	-3.33%
Vhicle&mobile equip mech & rep	2.579	2.715	2.813	2.859	2.870	11.28%
Oth mech, inst & repair	2.294	2.364	2.394	2.421	2.425	5.71%
<b>Production, precision</b>						
Assemblers, precision	0.385	0.424	0.449	0.463	0.469	21.82%
Food wrkrs, precision	0.496	0.481	0.459	0.447	0.433	-12.70%
Inspect, tsters & graders, precis	1.110	1.068	1.015	0.991	0.957	-13.78%
Metal wrkrs, precision	0.844	0.903	0.956	1.002	1.036	22.75%
Printing wrkrs, precision	0.153	0.152	0.150	0.161	0.169	10.46%
Text, appar & furn wrkrs, precis	0.408	0.392	0.368	0.363	0.353	-13.48%
Woodwrkrs, precision	0.418	0.415	0.404	0.423	0.435	4.07%
Other precision wrkrs	0.325	0.330	0.329	0.332	0.330	1.54%
<b>Plant and System</b>						
Chem plant & syst oper	0.072	0.079	0.084	0.091	0.097	34.72%
Elec pwr gen plant oper&distr&disp	0.096	0.091	0.087	0.087	0.086	-10.42%
Gas & petro plant & syst	0.047	0.048	0.048	0.046	0.044	-6.38%
Stationary engineers	0.066	0.065	0.063	0.062	0.060	-9.09%
Water&liqu wste trtmnt plant&syst oper	0.324	0.334	0.343	0.344	0.344	6.17%
All other plant & syst oper	0.279	0.282	0.282	0.284	0.283	1.43%

**TABLE 3 CONTINUED**  
**Employment By Occupation (Thous)**  
**Region 7**

OCCUPATIONS	2000	2005	2010	2015	2020	%Change
<b>Mach setters &amp; oper &amp; tenders</b>						
Num ctrl mach tool oper, met&plast	0.096	0.114	0.135	0.151	0.167	73.96%
Comb mach tool setters&oper&tnders	0.095	0.109	0.122	0.134	0.145	52.63%
Mach tool cut&form oper, met&plast	0.611	0.624	0.641	0.682	0.714	16.86%
Metal fabricat mach oper	0.158	0.169	0.183	0.205	0.226	43.04%
Met&plast process mach oper	0.308	0.339	0.360	0.392	0.418	35.71%
Print, binding & rel wrkrs	0.594	0.584	0.568	0.583	0.591	-0.51%
Textile & related oper	3.601	3.103	2.608	2.319	2.041	-43.32%
Woodworking mach oper	0.413	0.383	0.356	0.364	0.366	-11.38%
Oth mach setters&oper&tnders	3.548	3.607	3.599	3.676	3.711	4.59%
<b>Hand wrkrs, incl assemb&amp;fabricat</b>						
Hand wrkrs, incl assemb&fabricat	3.840	4.048	4.148	4.284	4.380	14.06%
<b>Transp&amp;mater moving mach&amp; vchle oper</b>						
Motor vehicle operators	6.078	6.314	6.353	6.334	6.246	2.76%
Rail transp wrkrs	0.076	0.072	0.067	0.063	0.059	-22.37%
Water transp & rel wrkrs	0.035	0.035	0.035	0.037	0.037	5.71%
Material moving equip oper	1.396	1.412	1.401	1.401	1.391	-0.36%
All other transp&mat mov equip oper	0.300	0.312	0.319	0.321	0.321	7.00%
<b>Help, labrs &amp; mat movers hand</b>						
Help, labrs & mat movers, hand	9.411	9.489	9.476	9.512	9.478	0.71%

### Employment by Occupation

Table 3 converts the change in employment by sector into changes in employment by occupation. The table summarizes changes in occupation in 5 year increments beginning with 2000, and ending in 2020. The percent changes in blue are the occupations which will grow faster than twice the percent of growth in Private Non-Farm employment or growth rates of 18% or more. Occupations growing faster than Private Non-Farm employment up to twice the percent of growth are labeled in green or growth rates of between 9% and 18%. Occupations growing by the same percent as Private Non-Farm employment or less are labeled in orange, and occupations that will lose jobs are labeled in red.

In regard to employment by occupation for Region 7, Professional Specialty occupations are systematically among the fastest growing occupations with the exception of Legal Professions. The rapid growth in Professional Specialty is paralleled by Technician and Related Support occupations. In 2000, the Professional Specialty field had 27,110 jobs, and by 2020, is expected to have 34,885 jobs. Between years 2000 and 2020, Professional Specialty occupations are projected to grow by 7,775 jobs or by 29%. The occupations responsible for the majority of the growth in this area are Computer, Math, and Operations Research, and Health, represented in blue. These occupations alone will add 2,474 to the Professional Specialty occupational group. Health and Diagnosing and Health Assessment and Treatment will add a combined total of 1,706 jobs to this region, and both will have a percent change that will grow faster than twice the percent of growth in Private Non-Farm employment. Note also that there is parallel occupational growth in the Services Categories of Health and Personal Services. Social, Recreation, and Religious Workers will add 1,129 jobs at a 37% increase. Occupations supporting the Professional Specialty field such as Technicians and Related Support will generate over 1,159 jobs in Health Technology resulting in a 26% increase in employment. Judges and other Judicial Workers, represented in red, is the only occupational sector that will lose jobs in the Professional Specialty Field in this Region.

The Service sector is another group of occupations that will grow at a rapid pace. In a 10 year period, Services will account for growth of 3,335 jobs for the occupations within the group. In 20 years, Service occupations are projected to offer a total of 5,161 jobs. This sector will grow by 9% between 2000-2010, and an overall by 14% between 2000-2020. Several of the industries that make up the Service sector will grow by over 1,000 jobs per occupation.

On the other hand, there are a few traditionally growing occupational groups that will provide very limited opportunities: Administrative Support, Machine Setters, and Operators are expected to lose jobs. Administrative Support alone will lose 1,248 jobs and Machine Setters and Operators will lose 1,045 jobs. A majority of the percent changes in the Administrative Support field are in red, therefore representing occupations that will lose jobs. These fields have the highest overall loss opportunity in the region, although jobs will be lost in other areas.

Overall, growth in Agriculture, Forestry, Fishing, and Related Services will decrease. There are exceptions within this category in Administrative Caretakers and Gardeners, Nurseries, Greenhouses, and Lawn Services. Other no growth or slow growth occupations in the region include: Blue Collar Supervision; Extract; Mechanics; Production; Plant Systems; and Machine Setters and Operators as well as Construction; Mining; Installation and Repair except Vehicle Maintenance and Repair. Only four occupational categories in manufacturing will show significant increases in opportunity: Precision Assemblers, Precision Metal Workers, Precision Printing Workers, and Chemical Plant and System Operators. Within the manufacturing occupations, Machine Setters and Operations and Tenders are the only groups of occupations which stand out as providing high growth opportunities. The growth occupations are all in the high skills sector of the market.



**TABLE 4**  
**Population (Thous)**  
**Region 7**

<b>POPULATION</b>	<b>2000</b>	<b>2005</b>	<b>2010</b>	<b>2015</b>	<b>2020</b>	<b>%Change</b>
As a % of U.S.	0.155	0.150	0.145	0.140	0.137	-11.61%
Total	426.580	430.010	434.128	437.342	441.885	3.59%
White	228.393	226.103	224.256	222.128	220.920	-3.27%
Black	177.326	180.444	183.666	186.251	188.783	6.46%
Other	10.337	11.136	11.976	12.804	13.667	32.21%
Hispanic	10.524	12.327	14.231	16.159	18.516	75.94%
<b>AGE RANGE</b>						
0- 14	90.797	85.601	81.488	81.788	83.088	-8.49%
15- 24	56.286	59.071	59.373	55.293	51.379	-8.72%
25- 64	211.471	213.732	216.207	214.968	212.230	0.36%
65+	47.356	49.591	53.636	61.344	70.882	49.68%

### **Population and Demographic Changes**

REMI defines population as Mid-year estimates of population, including survivors from the previous year, births, special populations, and three types of migrants (economic, international, and retired).

Region 7's population has been broken into two sections: total population by race and by age range.

In a region with rapidly growing job opportunities in-migration effect both the profile of the labor force and the profile of the population. However, once the initial burst of migration has taken place then the number of people entering the labor force also increases due to natural increase. Hence, population by age ultimately tells the story of the labor force for the region.

In 2000, the percent of the population which is classified as White accounted for 54% of the population, Black 42%, Other 2%, and Hispanic 2%. In 2020, Whites will account for exactly half

of the population, Black 43%, Other 3%, and Hispanic 4%. Black, Other, and Hispanic are expected to have some growth. White will decline from 54% of the population in 2000, to 50% in 2020. This reflects national trends to greater ethnic diversity in population.

The Hispanic population is growing at a much faster rate than the persons classified as Other ethnic population. By 2020, the Hispanic population is expected to grow 76% compared with 2000. This growth accounts for the addition of 7,992 persons in this ethnic classification. In two decades, the group classified as Other ethnic population, in absolute values, is predicted to add a total of 3,330 persons to the total population. The total population for Region 7 is expected to be 441,885 persons in two decades. Other and Hispanic groups combined are predicted to represent 11,322 persons of the total population, by 2020.

Males and Females ages 65 and older will represent an increasing proportion of the population. In two decades, Males age 65 and older are predicted to grow by 10,405 persons, and Females are expected to grow even more by 13,121 persons. The age 65 and older portion of the population will increase by 50%. Males and Females in the age range 0-14 will be decreasing at a greater rate in the next ten years than in the next twenty years. This means that the region will have an increasingly older population.

## **Conclusion**

As stated in the Overview for All Regions the occupations with the highest growth rates in jobs will require significant education. Further, the high growth occupations require competency and comfort with Math, Science and Technology and the relate skills of logic and problem solving. Even in manufacturing there is a shift from low skill assembly work to high skill precision work.

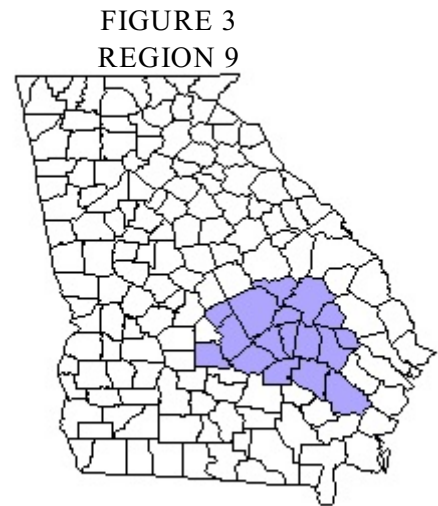
The relative growth of the Hispanic and Other ethnic population, has implication, for both educational institutions and those involved in workforce development. This population is a critical portion of the region's workforce and it should be expected that it will increasingly fill the need for unskilled labor not only in the agriculture sector, but also in construction and services.

Finally there is a very disturbing trend in the demographic outlook. This region is losing it's future workforce at a very rapid rate and there is virtually no growth in the household formation cohort.

In fact, since the migrant Hispanic and Other ethnic populations tend to be in the younger cohorts these populations are the only source of growth in the household formation cohorts. However, there will be a nearly 50% increase in the over age 65 population. This demographic shift will place tremendous stress on health care, social and other support services.

**Region 9: Appling, Bleckley, Candler, Dodge, Emanuel, Evans, Jeff Davis, Johnson, Laurens, Montgomery, Tattnall, Telfair, Treutlen, Toombs, Wayne, Wheeler, and Wilcox**

There are two primary measures of economic progress, the number of jobs an economy creates and the real income enjoyed by members of the economy. Both measures are reported here because they are not interchangeable. To illustrate this, consider that while incomes are the reward for work, it is quite possible to increase the number of jobs and not improve incomes. If, for example, a region loses high paying professional jobs and replaces those with low skilled jobs, total jobs can increase without total income increasing. In fact, incomes may actually decrease under this scenario.



Region 9 is the smallest of the four regions by all economic and population measures. The Gross Regional Product,<sup>3</sup> as calculated by REMI, in Region 9 is expected to increase by 72.21%. This increase will elevate the 2000 GRP from \$5.783 billion, in constant 1992 dollars, to \$9.959 billion in 2020. Associated with the growth in GRP is an increase in employment.

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<sup>3</sup>REMI calculates Gross Regional Product (GRP) as a measure of the money value of goods and services produced and available in a region in a given time period.

By 2020, there will be a 6.34% increase in employment over 2000. Total employment in Region 9 will grow from 129,626 jobs in 2000, to 137,842 in 2020. With the increase in employment, Real Disposable Personal Income is expected to increase by 32.5% from \$4.33 billion to \$5.74 billion in 2020. Concurrent with the region's economic growth, Region 9's population is expected to reach 269,673 by 2020. This represents a 3.99% increase from 259,330 in 2000. In general, Region 9 is expected to have a steady growth period in the next twenty years. The regional growth is illustrated in more detail in the following three sections: employment by sector, employment by occupation, and population and demographic changes.

**TABLE 5**  
**Employment By Sector (Thous)**  
**Region 9**

<b>Employment</b>	<b>2000</b>	<b>2005</b>	<b>2010</b>	<b>2015</b>	<b>2020</b>	<b>% Change</b>
Private Non-Farm	97.051	99.466	101.104	104.438	106.457	9.69%
Government	23.490	24.063	24.500	24.575	24.539	4.47%
Farm	9.085	8.247	7.570	7.199	6.846	-24.65%
Disaggregation						
<b>Private Non-Farm:</b>						
<i>Manufacturing-Durable</i>						
Lumber	3.458	3.438	3.415	3.641	3.823	10.56%
Furniture	1.008	1.028	0.979	1.111	1.191	18.15%
Stone,Clay,Etc.	0.568	0.552	0.537	0.554	0.565	-0.53%
Primary Metals	0.014	0.011	0.009	0.007	0.006	-57.14%
Fabricated Metals	2.451	2.761	3.099	3.905	4.761	94.25%
Machin & Comput	2.519	3.098	3.683	4.067	4.340	72.29%
Electric Equip	1.366	1.386	1.477	1.667	1.810	32.50%
Motor Vehicles	0.300	0.291	0.258	0.279	0.292	-2.67%
Rest Trans Equip	0.043	0.054	0.059	0.056	0.053	23.26%
Instruments	0.003	0.003	0.003	0.002	0.002	-33.33%
Misc. Manufact	0.137	0.140	0.134	0.135	0.134	-2.19%
<i>Manufacturing-NonDurable</i>						
Food	2.645	2.808	2.899	2.976	3.046	15.16%
Tobacco Manuf	0.000	0.000	0.000	0.000	0.000	0.00%
Textiles	4.597	4.453	4.137	4.213	4.168	-9.33%
Apparel	4.770	3.807	3.018	2.420	1.961	-58.89%
Paper	1.914	1.782	1.650	1.604	1.527	-20.22%
Printing	0.575	0.586	0.597	0.654	0.705	22.61%
Chemicals	0.283	0.308	0.327	0.350	0.369	30.39%
Petro Products	0.000	0.000	0.000	0.000	0.000	0.00%
Rubber	0.151	0.169	0.169	0.176	0.178	17.88%
Leather	0.001	0.001	0.001	0.000	0.000	-100.00%
<i>Non-Manufacturing</i>						
Mining	0.043	0.039	0.037	0.035	0.033	-23.26%
Construction	6.389	6.360	6.407	6.505	6.572	2.86%
Trans.&Public Util.	5.799	5.751	5.561	5.388	5.109	-11.90%
Fin&Ins&Real Est	4.645	4.650	4.546	4.410	4.222	-9.11%
Retail Trade	20.831	20.848	20.637	20.528	20.140	-3.32%
Wholesale Trade	4.644	4.828	4.859	4.971	4.933	6.22%
Services	24.992	27.166	29.217	30.979	32.342	29.41%
Agri&For&Fish Serv	2.906	3.154	3.390	3.802	4.174	43.63%
<i>Government</i>						
State and Local	20.580	21.153	21.531	21.547	21.488	4.41%
Federal Civilian	1.865	1.793	1.777	1.807	1.811	-2.90%
Federal Military	1.044	1.117	1.193	1.221	1.240	18.77%

## **Employment by sector**

Table 5 shows employment growth by sector in five year increments. Total employment is expected to grow by 6.34% from 2000 to 2020. The change in employment by sector from 2000 to 2020 is analyzed in five year increments and separated into the following categories: Private Non-Farm, Government, and Farm. Private Non-Farm employment is further sub-divided into Manufacturing Durables, Manufacturing Non-Durables and Non-Manufacturing.

### Private Non- Farm, Farm, and Government

Employment in the Private Non-Farm sector will grow by 9.69% in the next 20 years. In 2000, there were 97,051 people employed in the Private Non-Farm sector in the region, by 2020 this category is expected to increase to 106,457. Government is expected to add 1,049 new jobs by 2020. This represents an increase of 4.47% in 20 years, growing from 23,490 to 24,539 employees. On the other hand, employment in the Farming industry is expected to decrease by 24.65% removing 2,239 jobs from the region. However, Farming will continue to produce over one-third of the region's GRP.

### Manufacturing Durables

The approximately 10% increase in Manufacturing Durable Employment will be fueled by the Fabricated Metals, Machine & Computers, and Electric Equipments industries. These industries' will grow respectively by 94.25%, 72.29%, and 32.5%. Fabricated Metals is expected to add 2,310 jobs to the region by 2020, increasing its share in the total labor market from 11,867 to 16,971 employees. The overall growth in this sector is expected to be 43%.

### Manufacturing Non- Durable

Overall, employment in the Manufacturing Non-Durable sector is expected to decrease by 20% in the next twenty years. It is projected that the Apparel industry alone will lose 2,809 jobs by 2020. Besides the Apparel industry, Textiles, Leather, and Paper are expected to lose an additional 1,203 jobs by 2020. On the other hand, the Food Processing industry, Chemicals, Printing, and Rubber are projected to add 644 new jobs to the region in the next 20 years. However, these gains are not sufficient to offset the loss by other industries in the sector.

### Non-Manufacturing

By the year 2020, the Non-Manufacturing sector is projected to increase by 10%, adding 7,276 new jobs to Region 9's economy. This increase will mainly be fueled by the Service industry, which alone will add 7,350 new jobs in the next 20 years, causing a 29% increase. Also, Construction, Wholesale Trade, and Agriculture & Forest & Fishing Services will add 1,740 new jobs to the economy. In contrast, Transportation & Public Utilities, Retail Trade, and FIRE (Financing & Insurance & Real Estate) are expected to lose 1,814 jobs from Region 9's economy by 2020.

### Government

Maintaining its 8% portion in the job market, State and Local Government is expected to add 908 jobs to the region in the next twenty years. Federal Military will add 196 new jobs, and Federal Civilian is expected to cut 54 job positions by 2020. Overall, it is projected that by 2020 the entire Government sector will add 1,050 jobs to the region.



**TABLE 6**  
**Employment By Occupation (Thous)**  
**Region 9**

<b>OCCUPATIONS</b>	<b>2000</b>	<b>2005</b>	<b>2010</b>	<b>2015</b>	<b>2020</b>	<b>%change</b>
<b>Executive, adm. &amp; managerial</b>						
Managerial & administ	7.484	7.705	7.861	8.078	8.202	9.59%
Management support	3.655	3.764	3.839	3.923	3.962	8.40%
<b>Professional Specialty</b>						
Engineers	1.024	1.110	1.197	1.298	1.380	34.77%
Architects & surveyors	0.112	0.115	0.118	0.124	0.128	14.29%
Life scientists	0.178	0.188	0.197	0.207	0.215	20.79%
Comput, math & oper res	1.034	1.327	1.592	1.781	1.952	88.78%
Physical scientists	0.129	0.136	0.142	0.151	0.158	22.48%
Social scientists	0.215	0.225	0.233	0.238	0.242	12.56%
Social, rec & relig wrkrs	1.738	1.936	2.103	2.214	2.307	32.74%
Judges, magis & oth judic wrkrs	0.107	0.106	0.106	0.105	0.104	-2.80%
Lawyers	0.327	0.353	0.377	0.402	0.423	29.36%
Teachers, librarians, couns	4.198	4.418	4.579	4.670	4.722	12.48%
Health diagnosing	0.771	0.848	0.917	0.975	1.028	33.33%
Hlth assessmnt & treating	2.588	2.773	2.949	3.081	3.191	23.30%
Writers, artists & entertainers	0.816	0.866	0.898	0.923	0.934	14.46%
All other profes wrkrs	0.648	0.671	0.691	0.709	0.720	11.11%
<b>Technician &amp; rel support</b>						
Hlth technic & technologists	2.393	2.562	2.720	2.845	2.950	23.28%
Engin & scienc tech & technol	1.020	1.050	1.082	1.136	1.173	15.00%
Tech, xcpt hlth, engin & scienc	0.690	0.721	0.749	0.774	0.790	14.49%
<b>Marketing and Sales</b>						
Cashiers	3.042	3.082	3.080	3.074	3.018	-0.79%
Counter and rental clerks	0.374	0.398	0.417	0.430	0.435	16.31%
Insurance sales wrkrs	0.078	0.080	0.081	0.087	0.092	17.95%
Real est agents, brokers & apprais	0.063	0.063	0.064	0.064	0.063	0.00%
Salespersons, retail	3.938	3.930	3.870	3.819	3.694	-6.20%
Secur & finan serv sales wrkrs	0.170	0.191	0.199	0.190	0.178	4.71%
Mktng & sales worker suprvsrs	1.538	1.580	1.595	1.608	1.592	3.51%
Travel agents	0.014	0.016	0.017	0.018	0.019	35.71%
All other sales & rel wrkrs	2.489	2.576	2.625	2.699	2.724	9.44%
<b>Adm spprt, incl clerical</b>						
Adjstrs, investiga & collectors	0.899	0.946	0.978	1.004	1.017	13.13%
Communic equip operators	0.190	0.167	0.146	0.131	0.114	-40.00%
Comput oper & periph equip oper	0.169	0.139	0.113	0.097	0.079	-53.25%
Fin records processing	2.243	2.119	2.010	1.968	1.901	-15.25%
Information clerks	1.445	1.526	1.590	1.655	1.703	17.85%
Mail clerks & messengers	0.157	0.155	0.152	0.150	0.145	-7.64%
Post clerks & mail carriers	0.289	0.295	0.306	0.320	0.330	14.19%
Material rec, sched, disp & distr	4.068	3.947	3.816	3.782	3.688	-9.34%
Recrd processing, xcpt fin	0.886	0.889	0.884	0.885	0.876	-1.13%
Secretar, stenog & typists	2.956	2.790	2.642	2.571	2.466	-16.58%
Oth cleric & admin spprt wrkrs	7.167	7.332	7.424	7.502	7.500	4.65%

**TABLE 6 CONTINUED**  
**Employment By Occupation (Thous)**  
**Region 9**

<b>OCCUPATIONS</b>	<b>2000</b>	<b>2005</b>	<b>2010</b>	<b>2015</b>	<b>2020</b>	<b>%change</b>
<b>Service</b>						
Clean & bldg serv, ex priv hh	2.282	2.275	2.261	2.276	2.263	-0.83%
Food prep and service	6.528	6.682	6.760	6.883	6.966	6.71%
Health service	2.198	2.409	2.608	2.757	2.889	31.44%
Personal service	1.754	1.940	2.111	2.257	2.378	35.58%
Private household wrkrs	0.647	0.562	0.502	0.500	0.485	-25.04%
Protective service	3.944	4.255	4.500	4.615	4.707	19.35%
All other service wrkrs	0.940	0.975	1.002	1.030	1.050	11.70%
<b>Agri, for, fish &amp; rel Services</b>						
Anim brdrs&trnrs; caretak, ex farm	0.342	0.356	0.366	0.382	0.396	15.79%
Farm wrkrs	4.116	3.697	3.387	3.296	3.197	-22.33%
Farm oper & managers	0.830	0.767	0.720	0.712	0.702	-15.42%
Fish, hunters & trappers	0.106	0.084	0.067	0.059	0.050	-52.83%
Forestry & logging	0.316	0.316	0.315	0.332	0.347	9.81%
Gard, nurs, greenhse, lawn serv	2.819	2.938	3.023	3.144	3.255	15.47%
Supervisors, farm&for&agri rel	0.355	0.339	0.328	0.331	0.332	-6.48%
Veter asst, all other rel wrkrs	1.603	1.502	1.426	1.418	1.404	-12.41%
<b>Blue collr wrker supervisors</b>						
Blue collr wrker supervisors	2.323	2.362	2.382	2.469	2.530	8.91%
<b>Construction trades</b>						
Construction trades	4.177	4.208	4.264	4.371	4.454	6.63%
<b>Extract &amp; rel wrkres, incl blaster</b>						
Oil and gas extraction	0.005	0.005	0.005	0.005	0.005	0.00%
Mining, quarry & tunneling	0.002	0.002	0.001	0.001	0.001	-50.00%
All other extraction & rel wrkrs	0.136	0.138	0.140	0.146	0.150	10.29%
<b>Mechan, installers &amp; rep</b>						
Commun equip mech, inst & rep	0.074	0.076	0.075	0.072	0.067	-9.46%
Electr equip mech, inst & rep	0.191	0.191	0.192	0.196	0.196	2.62%
Mach&rel mech, inst & rep	2.011	2.034	2.032	2.095	2.130	5.92%
Vhicle&mobile equip mech & rep	1.263	1.287	1.304	1.319	1.315	4.12%
Other mech, inst & rep	1.288	1.293	1.298	1.322	1.328	3.11%
<b>Production, precision</b>						
Assemblers, precision	0.303	0.340	0.382	0.428	0.465	53.47%
Food wrkrs, precision	0.361	0.365	0.363	0.365	0.364	0.83%
Inspect, tsters & graders precis	0.855	0.798	0.750	0.756	0.750	-12.28%
Metal wrkrs, precision	0.631	0.716	0.803	0.903	0.990	56.89%
Printing wrkrs, precision	0.053	0.053	0.053	0.057	0.061	15.09%
Text, appar & furn wrkrs, precis	0.385	0.365	0.337	0.334	0.327	-15.06%
Woodwrkrs, precision	0.421	0.426	0.422	0.455	0.478	13.54%
Other precision wrkrs	0.162	0.165	0.166	0.171	0.174	7.41%
<b>Plant and System</b>						
Chemic plant & syst oper	0.013	0.014	0.015	0.017	0.018	38.46%
Elec pwr gen plant oper&distr&disp	0.087	0.080	0.074	0.074	0.071	-18.39%
Gas & petro plant & syst	0.012	0.011	0.009	0.009	0.009	-25.00%
Stationary engineers	0.034	0.032	0.030	0.029	0.028	-17.65%
Water&liqu wste trtmnt plant&syst oper	0.199	0.206	0.210	0.212	0.213	7.04%
All other plant & syst oper	0.167	0.169	0.169	0.174	0.177	5.99%

**TABLE 6 CONTINUED**  
**Employment By Occupation (Thous)**  
**Region 9**

OCCUPATIONS	2000	2005	2010	2015	2020	%change
<b>Mach setters &amp; oper &amp; tenders</b>						
Num ctrl mach tool oper, met&plast	0.089	0.116	0.144	0.170	0.195	119.10%
Comb mach tool setters&oper&tnders	0.094	0.113	0.132	0.158	0.184	95.74%
Mach tool cut&form oper, met&plast	0.661	0.711	0.762	0.872	0.971	46.90%
Metal fabricat mach oper	0.205	0.236	0.269	0.322	0.376	83.41%
Met&plast process mach oper	0.280	0.312	0.343	0.401	0.458	63.57%
Print, binding & rel wrks	0.386	0.377	0.362	0.363	0.361	-6.48%
Textile and related oper	4.535	3.839	3.222	2.925	2.650	-41.57%
Woodworking mach oper	0.476	0.455	0.435	0.456	0.468	-1.68%
Oth mach setters&oper&tnders	2.552	2.599	2.616	2.734	2.819	10.46%
<b>Hand wrks, incl assemb&amp;fabricat</b>						
Hand wrks, incl assemb&fabricat	3.227	3.399	3.542	3.848	4.114	27.49%
<b>Transp&amp;mater moving mach&amp; vchle oper</b>						
Motor vehicle operators	3.991	4.148	4.185	4.205	4.160	4.23%
Rail transportation wrks	0.047	0.045	0.041	0.039	0.036	-23.40%
Water transp & rel wrks	0.010	0.010	0.010	0.011	0.011	10.00%
Material moving equip oper	0.931	0.950	0.953	0.983	1.001	7.52%
All other transp&mat mov equip oper	0.144	0.148	0.149	0.150	0.150	4.17%
<b>Help, labrs &amp; mat movers hand</b>						
Help, labrs & mat movers hand	5.717	5.672	5.604	5.690	5.711	-0.10%

### Employment by Occupation

Table 6 translates the change in employment by sector into changes in employment by occupation. The table shows changes in occupation in 5 year increments beginning with 2000 and ending in 2020. The percent changes in blue are the occupations which will grow faster than twice the percent of growth in Private Non-Farm employment, or any rate of growth higher than 19%. Occupations growing faster than Private Non-Farm employment up to twice the percent of growth are labeled in green, or rates of growth between 9.69% and 19%. Occupations growing by the same percent as Private Non-Farm employment or less are labeled in orange, and occupations that will lose jobs are labeled in red. Overall growth in employment by occupations in Region 9 mirrors that in Region 7.

When studying the trends in employment by occupation for the region, one can see that the occupations expected to offer more job openings during the next twenty years are in the Professional Specialty group, adding 3,619 new positions to the job market. It is estimated that by 2020, Computer, Math, and Operations Research will grow by 918 new jobs. The only occupations expected to lose jobs in this category during the upcoming two decades are Judges, Magistrates, and other judicial workers, even though these occupations are anticipated to lose only three job positions.

Technicians and related Support will also be a rapidly growing group of occupations. Health Technicians and Technologists occupations will lead the growth in jobs in this group.

The Service sector is anticipated to add 2,445 new jobs. In the Service sector, the occupations with major growth prospects are Health and Personal services, each is expected to grow by 31.44% and 35.58% respectively. These occupations are the only two in that category to have percent changes that will grow faster than twice the percent of growth in Private Non-Farm employment, therefore qualifying them to be classified in blue. The occupational growth in the Service sector will be in part offset by a 25.04% decline among Private household workers.

Within the manufacturing occupations only the group Machine Setters, Operators and Tenders will provide jobs opportunities comparable to Professional Specialty occupations. While these are currently relatively small portions of the region's occupational structure, the growth here is part of the modernization of manufacturing. The jobs in this occupation are high skill jobs.

Among the occupations expected to lose jobs during the next two decades are those in the Agriculture, Forestry, Fishing & Related Services. It is estimated that the Agricultural sector will lose 804 job positions; however, Animal Breeders, Training, and Caretakers, Forestry and Logging, Gardening, and Greenhouse & Nursery Occupations will grow by 436 jobs.

Within the Manufacturing employment there is an overall expected decrease in employment. High skill occupations in this sector will grow, Numeric Controllers Machinery Tool Operator is expected to grow by 119% in the next twenty years. Also, combined Machinery Tool Setters & Operators & Tenders and Metal Fabricated Machinery Operators are expected to sustain growth during the studied period. However, this growth will be more than offset by the loss of 1,885 job positions in Textile and Related Operations inducing a loss of 796 jobs for the sector.

Other traditionally growing sectors which will losses occupations are: Administrative Support such as Communications Equipment Operators, Computer Operators & Periph Equipment Operators, Financial Records Processing, etc. Unlike Region 7, Region 9 will experience stronger growth in Construction, Installation & Repair, and in some Precision Productions workers occupations.

**TABLE 7**  
**Population (Thous)**  
**Region 9**

<b>POPULATION</b>	<b>2000</b>	<b>2005</b>	<b>2010</b>	<b>2015</b>	<b>2020</b>	<b>% change</b>
As a % of U.S.	0.094	0.091	0.088	0.085	0.083	-11.70%
Total	259.330	261.837	262.855	265.963	269.673	3.99%
White	169.210	167.790	165.363	164.536	164.241	-2.94%
Black	82.896	85.292	87.159	89.321	91.238	10.06%
Other	1.575	1.915	2.280	2.674	3.072	95.05%
Hispanic	5.648	6.840	8.052	9.433	11.122	96.92%
<b>AGE RANGE</b>						
0- 14	57.856	56.091	55.846	57.103	58.184	0.57%
15- 24	36.015	39.231	37.644	35.498	35.444	-1.59%
25- 64	132.436	134.159	135.084	136.025	134.547	1.59%
65+	33.530	32.743	34.541	37.550	41.679	24.30%

### **Population and Demographic Changes**

REMI defines population as Mid-year estimates of population, including survivors from the previous year, births, special populations, and three types of migrants (economic, international, and retired). Region 9's population has been broken into two sections: total population by race and by age range. In a region with rapidly growing job opportunities in-migration effect both the profile of the labor force and the profile of the population. However, once the initial burst of migration has taken place then the number of people entering the labor force also increases due to natural increase. Hence, population by age ultimately tells the story of the labor force for the region.

In year 2000, White comprised 65% of the population, Black 32%, Hispanic 2%, and 1% was composed by Others. By year 2020, the Black and Hispanic population is expected to grow as a percentage of the total population. The White population, following the same trend as Region 7, will have a decreased share of total population.

The Hispanic population is the fastest growing portion of the population in Region 9. It is calculated that in the next twenty years, the Hispanic population will increase by 97% in the region. In 2000, there were 5,648 Hispanics in the region, by 2020 there will be 11,122. The main reason for the increase in the Hispanic population is the 96% increase in birth rate; however, a cautionary note here is that this high percent increase is a function only of that increased presence of a Hispanic population.

During the next twenty years, the regional population will grow older. The population over age 65 will grow by 24%, increasing from 33,530 to 41,469 people in 2020. On the other side, the population between the ages 15 to 24 is expected to decrease by 2% and there is virtually no growth in the 0 to 14 year old population. Overall, total population in Region 9 is expected to increase by 4% in the next two decades, but the composition of the population will be an increasingly aging household and retired population. The Region will reach 269,673 people by 2020.

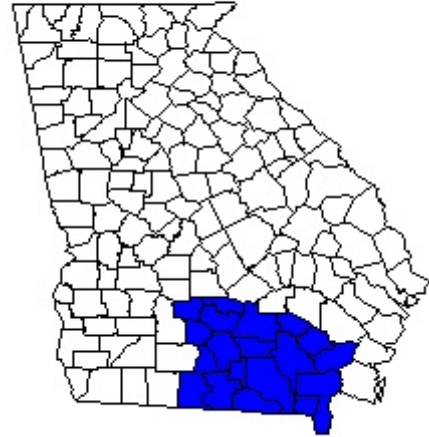
## **Conclusion**

Region 9, like Region 7, will offer the greatest number of job opportunities for highly educated workers. Additionally, like Region 7, there will be a significant growth in the Hispanic population. These workers are vital to the regions agriculture sector, but will also increasing fill other low skill occupations such as construction and services.

Also like Region 7, Region 9 will have an alarmingly high rate of growth in the over age 65 population. This portion of the population will grow by over 24%. There is virtually no growth in the younger age cohorts.

**Region 11: Atkinson, Bacon, Ben Hill, Berrien, Brantley, Brooks, Charlton, Clinch, Coffee, Cook, Echols, Irwin, Lanier, Lowndes, Pierce, Tift, Turner, and Ware.**

There are two primary measures of economic progress, the number of jobs an economy creates and the real income enjoyed by members of the economy. Both measures are reported here because they are not interchangeable. To illustrate this, consider that while incomes are the reward for work, it is quite possible to increase the number of jobs and not improve incomes. If, for example, a region loses high paying professional jobs and replaces those with low skilled jobs, total jobs can increase without total income increasing. In fact, incomes may actually decrease under this scenario.



Region 11 is roughly comparable in size to Region 9 by all economic and demographic measures. Gross Regional Product<sup>4</sup> in constant 1992 dollars for Region 11 is forecast to grow posting an expected 50.5% increase in 20 years. In 2000, Gross Regional Product was \$8.75 billion, and is projected to reach \$13.16 billion by 2020. In comparison to Region 9, Region 11's GRP is expected to grow at a much faster rate. Real Disposable Personal Income is expected to grow from \$6.10 billion to \$8.49 billion in 20 years, resulting in a percent increase of 39%. Population in the region is expected to increase by 10.29%. The increase will result in a population increase of 36,510.

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<sup>4</sup>REMI calculates Gross Regional Product (GRP) as a measure of the money value of goods and services produced and available in a region in a given time period.



**TABLE 8**  
**Employment By Sector (Thous)**  
**Region 11**

Employment	2000	2005	2010	2015	2020	%change
Private Non-Farm	151.542	155.229	157.983	162.554	165.499	9.21%
Government	34.229	36.104	37.552	37.992	38.081	11.25%
Farm	9.086	8.247	7.571	7.200	6.847	-24.64%
<b>Private Non-Farm:</b>						
<i>Manufacturing-Durable</i>						
Lumber	10.770	10.446	10.161	10.377	10.532	-2.21%
Furniture	0.093	0.097	0.094	0.111	0.124	33.33%
Stone,Clay,Etc.	0.630	0.610	0.594	0.614	0.627	-0.48%
Primary Metals	0.565	0.546	0.517	0.522	0.505	-10.62%
Fabricated Metals	2.156	2.252	2.362	2.765	3.171	47.08%
Machin & Comput	0.949	1.004	1.210	1.371	1.503	58.38%
Electric Equip	0.764	0.947	1.189	1.558	1.960	156.54%
Motor Vehicles	0.519	0.498	0.440	0.476	0.500	-3.66%
Rest Trans Equip	2.871	3.700	4.182	4.443	4.585	59.70%
Instruments	0.052	0.069	0.083	0.104	0.124	138.46%
Misc. Manufact	0.013	0.013	0.012	0.012	0.012	-7.69%
<i>Manufacturing-NonDurable</i>						
Food	4.323	4.496	4.602	4.717	4.831	11.75%
Tobacco Manuf	0.345	0.297	0.248	0.218	0.189	-45.22%
Textiles	4.175	3.700	3.163	2.835	2.479	-40.62%
Apparel	3.222	2.533	2.000	1.605	1.306	-59.47%
Paper	1.603	1.614	1.618	1.689	1.735	8.23%
Printing	0.811	0.812	0.818	0.898	0.970	19.61%
Chemicals	0.604	0.596	0.574	0.565	0.545	-9.77%
Petro Products	0.001	0.001	0.001	0.001	0.001	0.00%
Rubber	1.814	1.923	1.978	2.054	2.073	14.28%
Leather	0.000	0.000	0.000	0.000	0.000	0.00%
<i>Non-Manufacturing</i>						
Mining	0.048	0.043	0.041	0.040	0.038	-20.83%
Construction	10.453	10.284	10.273	10.362	10.471	0.17%
Trans.&Public Util.	8.394	8.692	8.731	8.703	8.555	1.92%
Fin&Ins&Real Est	7.987	7.988	7.836	7.702	7.494	-6.17%
Retail Trade	39.109	39.258	38.972	38.907	38.359	-1.92%
Wholesale Trade	6.626	6.550	6.402	6.427	6.321	-4.60%
Services	38.067	41.369	44.719	47.784	50.317	32.18%
Agri&For&Fish Serv	4.581	4.892	5.165	5.693	6.172	34.70%
<i>Government</i>						
State and Local	26.980	28.554	29.629	29.892	29.879	10.74%
Federal Civilian	1.867	1.795	1.778	1.809	1.813	-2.89%
Federal Military	5.382	5.755	6.144	6.290	6.389	18.71%

## **Employment by Sector**

### Private Non-Farm, Farm, and Government

Table 8 shows employment growth by sector in five year increments. Region 11 will grow in Private Non-Farm and Government sector's employment, but the area will lose jobs in the Farm sector. Private Non-Farm employment is expected to increase from 6,441 jobs in 2010 to 13,957 jobs in 2020. Based on growth in employment, Region 11 will be growing faster than Region 7 but slower than Region 9. Region 11's Government sector will add 3,852 jobs to the area in two decades. Government is expected to grow by 18% between 2000 and 2020. The majority of this growth is in Federal Military employment.

### Manufacturing Durables

In 2020, employment in Manufacturing Durables is predicted to grow by 22% over the twenty year period. There are only three sectors with growth of over 1,000 jobs. The highest growth sector is expected to be Transportation Equipment gaining 1,714 jobs. Compared to the other regions, this region offers the most job growth in Transportation Equipment in 20 years. The second largest is the Electric Equipment sector with an increase of 1,196 jobs, and the third largest is Fabricated Metals. Fabricated Metals will add 1,015 new jobs in the next twenty years. Lumber fluctuates slightly over the twenty years. In 2000, Lumber had 10,770 jobs and is predicted to decrease to 10,161 by 2010; however, from 2010 to 2020 this sector rebounds to 10,532, making an overall loss of 2.2%. It should be noted that the 33% increase in Furniture Manufacturing amounts to only 31 new jobs.

### Manufacturing Non-Durables

Manufacturing Non-Durables will lose jobs in the majority of its sectors. The three major losses will be in the Textiles, Apparel, and Tobacco Manufacturing sectors. The three combined will have a total expected loss of 3,768 jobs. The three highest performing sectors are Printing, Rubber, and Food Processing at 20%, 14%, and 12% respectively. Overall, Manufacturing Non-Durables is not expected to offer many net additional job opportunities.

### Non- Manufacturing

Non-Manufacturing's overall growth is fairly high as a result of growth in the Services sector. About 12,250 new jobs will be provided making an increase of 32%. Region 11 will offer more jobs than Region 9 in the Service sector. Also growing in Non-Manufacturing is Agriculture, Forestry, and Fishing Services in which 1,591 jobs will be added in two decades, at an increase of 35%. Region 11's Non-Manufacturing sector is expected to lose 1,558 jobs throughout the entire sector in two decades. These losses are expected to occur mainly in the Finance, Insurance & Real Estate (FIRE) and Retail Trade.

### Government

The 11.25% growth in government employment includes an estimate 18% increase in military employment or 1,000 additional jobs. These jobs should be considered a risk due to the proposed re-organization of the military. Base Realignment and Closure may also involve significant decreases in the regions 5,300 military jobs.

**TABLE 9**  
**Employment By Occupations (Thous)**  
**Region 11**

<b>OCCUPATIONS</b>	<b>2000</b>	<b>2005</b>	<b>2010</b>	<b>2015</b>	<b>2020</b>	<b>% change</b>
<b>Executive, adm. &amp; managerial</b>						
Managerial & administ	11.444	11.808	12.082	12.410	12.618	10.26%
Management support	5.474	5.738	5.924	6.097	6.201	13.28%
<b>Professional Specialty</b>						
Engineers	1.582	1.791	1.964	2.135	2.282	44.25%
Architects & surveyors	0.179	0.184	0.189	0.200	0.208	16.20%
Life scientists	0.252	0.272	0.291	0.308	0.323	28.17%
Comput, math & oper res	1.615	2.085	2.505	2.802	3.083	90.90%
Physical scientists	0.209	0.220	0.231	0.244	0.256	22.49%
Social scientists	0.287	0.306	0.322	0.333	0.341	18.82%
Social, rec & relig wrkrs	2.403	2.735	3.022	3.217	3.379	40.62%
Judges, magis & oth judic wrkrs	0.134	0.136	0.137	0.137	0.135	0.75%
Lawyers	0.558	0.606	0.651	0.700	0.743	33.15%
Teachers, librarians, couns	4.991	5.351	5.623	5.766	5.846	17.13%
Health diagnosing	0.946	1.054	1.155	1.242	1.323	39.85%
Hlth assessmnt & treating	3.370	3.651	3.923	4.143	4.327	28.40%
Writers, artists & entertainers	1.253	1.335	1.395	1.442	1.469	17.24%
All other profes wrkrs	0.902	0.965	1.015	1.055	1.083	20.07%
<b>Technician &amp; rel support</b>						
Hlth technic & technologists	3.210	3.479	3.735	3.947	4.126	28.54%
Engin & scienc tech & technol	1.508	1.586	1.655	1.745	1.815	20.36%
Tech, xcpt hlth, engin & scienc	1.089	1.152	1.210	1.260	1.298	19.19%
<b>Marketing and Sales</b>						
Cashiers	5.610	5.713	5.736	5.755	5.687	1.37%
Counter and rental clerks	0.632	0.673	0.708	0.733	0.746	18.04%
Insurance sales wrkrs	0.183	0.186	0.189	0.203	0.216	18.03%
Real est agents, brokers & apprais	0.149	0.148	0.146	0.145	0.143	-4.03%
Salespersons, retail	7.254	7.273	7.196	7.139	6.953	-4.15%
Secur & finan serv sales wrkrs	0.225	0.251	0.260	0.248	0.233	3.56%
Mktng & sales worker suprvisrs	2.712	2.780	2.809	2.836	2.815	3.80%
Travel agents	0.119	0.130	0.140	0.153	0.165	38.66%
All other sales & rel wrkrs	3.865	3.928	3.970	4.049	4.076	5.46%
<b>Adm spprt, incl clerical</b>						
Adjstrs, investiga & collectors	1.386	1.467	1.524	1.577	1.612	16.31%
Communic equip operators	0.277	0.245	0.214	0.194	0.171	-38.27%
Comput oper & periph equip oper	0.245	0.203	0.166	0.142	0.116	-52.65%
Fin records processing	3.401	3.217	3.060	2.997	2.900	-14.73%
Information clerks	2.220	2.354	2.469	2.591	2.688	21.08%
Mail clerks & messengers	0.248	0.246	0.242	0.241	0.237	-4.44%
Post clerks & mail carriers	0.289	0.295	0.307	0.321	0.330	14.19%
Material rec, sched, disp & distr	6.337	6.150	5.947	5.864	5.698	-10.08%
Recrd processing, xcpt fin	1.247	1.252	1.248	1.250	1.238	-0.72%
Secretar, stenog & typists	4.338	4.115	3.916	3.824	3.680	-15.17%
Oth cleric & admin spprt wrkrs	10.147	10.448	10.647	10.798	10.839	6.82%

**TABLE 9 CONTINUED**  
**Employment By Occupations (Thous)**

<b>OCCUPATIONS</b>	<b>Region 11</b>					<b>% change</b>
	<b>2000</b>	<b>2005</b>	<b>2010</b>	<b>2015</b>	<b>2020</b>	
<b>Service</b>						
Clean & blding serv, ex priv hh	3.672	3.675	3.676	3.722	3.727	1.50%
Food prep and service	11.899	12.190	12.354	12.610	12.811	7.66%
Health service	2.862	3.178	3.483	3.726	3.940	37.67%
Personal service	2.669	2.966	3.246	3.491	3.698	38.55%
Private household wrkrs	0.992	0.865	0.779	0.784	0.769	-22.48%
Protective service	5.446	5.997	6.430	6.633	6.774	24.38%
All other service wrkrs	1.531	1.611	1.674	1.734	1.782	16.39%
<b>Agri, for, fish &amp; rel</b>						
Anim brdrs&trnrs; caretak, ex farm	0.406	0.428	0.445	0.467	0.488	20.20%
Farm wrkrs	4.692	4.261	3.937	3.863	3.778	-19.48%
Farm oper & managers	0.946	0.883	0.836	0.834	0.830	-12.26%
Fish, hunters & trappers	0.121	0.096	0.078	0.069	0.059	-51.24%
Forestry & logging	0.819	0.808	0.797	0.819	0.835	1.95%
Gard, nurs, greenhse, lawn serv	3.497	3.674	3.805	3.977	4.135	18.24%
Supervisors, farm&for&agri rel	0.449	0.433	0.421	0.426	0.431	-4.01%
Veter asst, all other rel wrkrs	1.879	1.783	1.709	1.712	1.709	-9.05%
<b>Blue collr wrker supervisors</b>						
Blue collr wrker supervisors	3.378	3.452	3.499	3.592	3.654	8.17%
<b>Construction trades</b>						
Construction trades	6.727	6.732	6.775	6.881	6.971	3.63%
<b>Extract &amp; rel wrkrs, incl blaster</b>						
Oil and gas extraction	0.006	0.006	0.006	0.006	0.006	0.00%
Mining, quarry & tunneling	0.002	0.002	0.002	0.002	0.002	0.00%
All other extraction & rel wrkrs	0.258	0.266	0.271	0.279	0.286	10.85%
<b>Mechan, installers &amp; rep</b>						
Commun equip mech, inst & rep	0.104	0.106	0.105	0.100	0.094	-9.62%
Electr equip mech, inst & rep	0.302	0.308	0.312	0.321	0.324	7.28%
Mach&rel mech, inst & rep	2.922	2.944	2.934	2.975	2.985	2.16%
Vhicle&mobile equip mech & rep	2.178	2.261	2.331	2.383	2.400	10.19%
Other mech, inst & rep	1.912	1.967	2.009	2.063	2.096	9.62%
<b>Production, precision</b>						
Assemblers, precision	0.300	0.356	0.410	0.470	0.526	75.33%
Food wrkrs, precision	0.618	0.613	0.605	0.605	0.603	-2.43%
Inspect, tsters & graders precis	1.150	1.091	1.037	1.032	1.016	-11.65%
Metal wrkrs, precision	0.742	0.811	0.875	0.950	1.011	36.25%
Printing wrkrs, precision	0.073	0.073	0.073	0.079	0.084	15.07%
Text, appar & furn wrkrs, precis	0.341	0.316	0.290	0.277	0.262	-23.17%
Woodwrkrs, precision	0.839	0.837	0.831	0.858	0.879	4.77%
Other precision wrkrs	0.242	0.246	0.249	0.255	0.259	7.02%
<b>Plant and System</b>						
Chemic plant & syst oper	0.025	0.027	0.027	0.027	0.027	8.00%
Elec pwr gen plant oper&distr&disp	0.069	0.069	0.071	0.075	0.079	14.49%
Gas & petro plant & syst	0.010	0.010	0.009	0.010	0.010	0.00%
Stationary engineers	0.049	0.049	0.049	0.050	0.050	2.04%
Water&liqu wste trtmnt plant&syst oper	0.246	0.262	0.274	0.280	0.284	15.45%
All other plant & syst oper	0.257	0.260	0.260	0.266	0.269	4.67%

**TABLE 9 CONTINUED**  
**Employment By Occupations (Thous)**  
**Region 11**

<b>OCCUPATIONS</b>	<b>2000</b>	<b>2005</b>	<b>2010</b>	<b>2015</b>	<b>2020</b>	<b>% change</b>
<b>Mach setters &amp; oper &amp; tenders</b>						
Num ctrl mach tool oper, met&plast	0.074	0.092	0.112	0.130	0.148	100.00%
Comb mach tool setters&oper&tnders	0.111	0.128	0.144	0.164	0.182	63.96%
Mach tool cut&form oper, met&plast	0.756	0.776	0.795	0.861	0.912	20.63%
Metal fabricat mach oper	0.185	0.201	0.217	0.248	0.277	49.73%
Met&plast process mach oper	0.588	0.643	0.682	0.744	0.792	34.69%
Print, binding & rel wrkrs	0.399	0.395	0.390	0.403	0.413	3.51%
Textile and related oper	3.627	2.960	2.403	2.056	1.750	-51.75%
Woodworking mach oper	1.309	1.236	1.175	1.184	1.184	-9.55%
Oth mach setters&oper&tnders	3.620	3.688	3.725	3.864	3.972	9.72%
<b>Hand wrkrs, incl assemb&amp;fabricat</b>						
Hand wrkrs, incl assemb&fabricat	4.643	4.882	5.061	5.372	5.643	21.54%
<b>Transp&amp;mater moving mach&amp; vhicle oper</b>						
Motor vehicle operators	6.404	6.637	6.709	6.734	6.675	4.23%
Rail transportation wrkrs	0.067	0.064	0.059	0.057	0.053	-20.90%
Water transp & rel wrkrs	0.055	0.056	0.057	0.061	0.063	14.55%
Material moving equip oper	1.484	1.496	1.491	1.515	1.525	2.76%
All other transp&mat mov equip oper	0.233	0.242	0.247	0.250	0.251	7.73%
<b>Help, labrs &amp; mat movers hand</b>						
Help, labrs & mat movers hand	8.996	8.891	8.798	8.861	8.852	-1.60%

### Employment by Occupation

Table 9 translates the changes in employment by sector into changes in employment by occupation.

The percent changes in blue are the occupations which will grow faster than twice the percent of growth in Private Non- Farm employment. In Region 11 that is a growth rate of 18% or better. Occupations growing faster than Private Non-Farm employment up to twice the percent are labeled in green. These are rates between 9.21% and 18%. Occupations growing by the same percent as Private Non-Farm employment or less are labeled in orange, and occupations that will lose jobs are labeled in red.

Region 11 will gain a total of 14,563 new jobs by 2020. Occupations in Professional Specialty will grow by 42%, gaining 6,117 new positions. Computer, Math, and Operations Research; Engineers; Social, Recreational and Religious workers; Health diagnosis and Health Assessment and Treatment occupations will all be fast growing occupations, labeled in blue and are the major sectors responsible for growth in employment opportunities among Professional Specialists.

In close parallel with the growth in jobs in the Professional Speciality groups of occupations is the expected growth in the jobs for occupations in the Technicians and Related Support category.

The Services sector is expected to add 4,430 job positions to the Region during the next twenty years. Among Services the occupation that will add the most job positions to the Region is Protective Services with 1,328 net new positions by 2020. Two other growing occupations among Services are Health and Personal services, growing 38% and 39% respectively during the next two decades. Cleaning and Building Services and Food Preparations are growing but at a moderate rate. These occupations are growing by the same percent as Private Non-Farm employment or less, and therefore are displayed in orange.

On the other hand, occupations in the fields of Machinery Setters & Operators & Tenders, Administrative Support, and Agricultural Services are expected to diminish employment opportunities in the next twenty years. Total employment losses in these three occupational groups amount to 2,209 positions. However, jobs for Information Clerks will grow adding 468 jobs in 20 years.

**TABLE 10**  
**Population (Thous)**  
**Region 11**

<b>POPULATION</b>	<b>2000</b>	<b>2005</b>	<b>2010</b>	<b>2015</b>	<b>2020</b>	<b>%change</b>
As a % of U.S.	0.094	0.091	0.088	0.085	0.083	-11.70%
Total	259.330	261.837	262.855	265.963	269.673	3.99%
White	169.210	167.790	165.363	164.536	164.241	-2.94%
Black	82.896	85.292	87.159	89.321	91.238	10.06%
Other	1.575	1.915	2.280	2.674	3.072	95.05%
Hispanic	5.648	6.840	8.052	9.433	11.122	96.92%
<b>AGE RANGE</b>						
0- 14	80.025	80.736	81.121	81.843	82.167	2.68%
15- 24	49.279	54.460	53.339	51.975	51.923	5.37%
25- 64	178.288	185.086	190.255	192.904	191.995	7.69%
65+	40.003	40.742	44.260	49.598	56.335	40.83%

### **Population and Demographic Changes**

REMI defines population as Mid-year estimates of population, including survivors from the previous year, births, special populations, and three types of migrants (economic, international, and retired). Region 11's population has been broken into two sections: total population by race and by age range. In a region with rapidly growing job opportunities in-migration effect both the profile of the labor force and the profile of the population. However, once the initial burst of migration has taken place then the number of people entering the labor force also increases due to natural increase. Hence, population by age ultimately tells the story of the labor force for the region.

Total population in Region 11 is expected to increase by 10.29% from 2000 to 2020, growing from 354,722 in 2000 to 391,228 by 2020. As of 2000, the group classified as White comprised 66% of



the total population, Black 31%, Hispanic 2%, and Other 1%. By 2020, the White population will decrease to 62% of the total population, Blacks will increase to 32%, Hispanics will increase to 4%, and Others will also increase to 2%. Region 11's Hispanic population will increase at the same percent as Region 9, 2% in 2000 and 4% in 2020.

During the next two decades it is expected that the Hispanic population will increase by 105.22% from 8,415 people up to 17,269 in year 2020. Even though the Hispanic migration into Region 11 is expected to decrease by 46.62% over the next twenty years, the number of births per year will grow by 104.67%. In this way, the Hispanic population as percentage of total population will increase by 2% by 2020. The ethnic classification Other is also expected to increase its proportion in the total population by 1% by 2020. In year 2000, there were 3,292 people classified as Other in Region 11, by 2020 this number is expected to increase 89.52% to 6,239 people.

During the next twenty years, Region's 11 population is expected to grow older. This is due to the increasing number of people over the age of 65 years old. Presently, there are 40,003 people in this age group, by 2020 it is expected that Region 11 will have 56,335 people over 65 years old. Also, the population between the ages 25 to 64 years old is expected to increase by 7.7%, from the actual 178,288 people to 191,995 people in the year 2020.

## **Conclusion**

With respect to those occupations with high growth in jobs, Region 11 like Region 7 and 9 will provide the most opportunities in the high education, high skills, categories. Like Region 7, Region 11 includes forecasts for growth in military jobs. However, this growth may not occur and should be considered uncertain. In fact, Base Realignment and Closure may result to a loss of up to 5,300 jobs.

There is some expectation of every moderated growth in the younger population cohorts, but like Region 7, there will be very significant increase in the over age 65 population. This portion of the population is expected to increase by 41%.

Hispanic and Other ethnic classifications will also increase as a portion of the population. Growing ethnic diversity is a nation-wide phenomena. These workers are critical to the agricultural economy, but will also increasingly occupy low skill construction and service jobs.

## **Region 12: Bryan, Bulloch, Camden, Chatham, Effingham, Glynn, Liberty, Long, and McIntosh**

There are two primary measures of economic progress, the number of jobs an economy creates and the real income enjoyed by members of the economy. Both measures are reported here because they are not interchangeable. To illustrate this, consider that while incomes are the reward for work, it is quite possible to increase the number of jobs and not improve incomes. If, for example, a region loses high paying professional jobs and replaces those with low skilled jobs, total jobs can increase without total income increasing. In fact, incomes may actually decrease under this scenario.



Geographically the smallest of the four regions Region 12 is the largest by all economic and demographic measures. Gross Regional Product<sup>5</sup> in constant 1992 dollars is expected to grow from \$14.15 billion in 2000 to \$20.57 billion in 2020. This is a 45.4% increase in real GRP in 20 years. This growth will result in an increase in total employment from 304,998 in 2000 to 347,671 in 2020, or an increase in employment of 42,673. Real Disposable Personal Income will grow from \$10 billion in 2000 to \$14.23 billion in 2020. This represents a 42.3% increase in Real Disposable Personal Income.

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<sup>5</sup>REMI calculates Gross Regional Product (GRP) as a measure of the money value of goods and services produced and available in a region in a given time period.

**TABLE 11**  
**Employment By Sector (Thous)**  
**Region 12**

<b>Employment</b>	<b>2000</b>	<b>2005</b>	<b>2010</b>	<b>2015</b>	<b>2020</b>	<b>%Change</b>
Private Non-Farm	229.787	239.691	246.555	255.844	262.307	14.15%
Government	73.610	77.586	81.521	83.216	84.158	14.33%
Farm	1.601	1.453	1.334	1.269	1.206	-24.67%
<b>Disaggregation</b>						
<i>Private Non-Farm:</i>						
<i>Manufacturing-Durable</i>						
Lumber	1.746	1.713	1.694	1.815	1.924	10.19%
Furniture	0.033	0.036	0.036	0.044	0.050	51.52%
Stone,Clay,Etc.	1.620	1.545	1.486	1.525	1.549	-4.38%
Primary Metals	0.797	0.781	0.742	0.786	0.806	1.13%
Fabricated Metals	1.217	1.139	1.079	1.123	1.156	-5.01%
Machin & Comput	1.729	1.754	1.977	2.188	2.339	35.28%
Electric Equip	0.020	0.018	0.016	0.017	0.017	-15.00%
Motor Vehicles	0.552	0.522	0.458	0.493	0.515	-6.70%
Rest Trans Equip	5.337	5.334	5.173	5.495	5.687	6.56%
Instruments	0.328	0.313	0.281	0.267	0.246	-25.00%
Misc. Manufact	0.109	0.107	0.101	0.102	0.101	-7.34%
<i>Manufacturing-NonDurable</i>						
Food	3.232	3.831	4.206	4.395	4.605	42.48%
Tobacco Manuf	0.000	0.000	0.000	0.000	0.000	0.00%
Textiles	0.094	0.078	0.062	0.052	0.043	-54.26%
Apparel	0.218	0.177	0.145	0.124	0.110	-49.54%
Paper	6.346	5.912	5.521	5.442	5.268	-16.99%
Printing	1.520	1.519	1.526	1.667	1.797	18.22%
Chemicals	2.682	2.754	2.773	2.968	3.108	15.88%
Petro Products	0.289	0.287	0.275	0.269	0.263	-9.00%
Rubber	0.175	0.182	0.183	0.186	0.185	5.71%
Leather	0.000	0.000	0.000	0.000	0.000	0.00%
<i>Non-Manufacturing</i>						
Mining	0.148	0.144	0.145	0.143	0.140	-5.41%
Construction	17.665	17.715	17.822	18.206	18.556	5.04%
Trans.&Public Util.	13.622	14.304	14.581	15.027	15.288	12.23%
Fin&Ins&Real Est	14.671	14.786	14.576	14.421	14.125	-3.72%
Retail Trade	60.349	61.529	61.469	61.882	61.573	2.03%
Wholesale Trade	8.152	8.048	7.825	7.830	7.683	-5.75%
Services	83.259	90.825	97.695	104.105	109.353	31.34%
Agri&For&Fish Serv	3.877	4.338	4.706	5.272	5.821	50.14%
<i>Government</i>						
State and Local	34.650	37.009	38.940	39.687	40.079	15.67%
Federal Civilian	10.037	9.650	9.560	9.724	9.744	-2.92%
Federal Military	28.922	30.927	33.021	33.805	34.335	18.72%

## **Employment by Sector**

### Private Non-Farm, Farm, and Government

Table 11 shows the expected change in employment by sector for 2000 to 2020. Private Non-Farm employment is expected to increase by 14.15% over the 20 year period. Region 12 has the highest percent change in Private Non-Farm compared to Region 7, 9, and 11. Additionally, both Federal Military and State and Local Government employment are expected to grow.<sup>6</sup>

### Manufacturing Durables

Region 12 has generally been losing jobs in Durable Good Manufacturing. This trend is expected to continue. However, there are important exceptions to this trend. Both Machine and Computer Equipment and Transportation Equipment Manufacturing are expected to post significant growth with 610 new jobs in Machine and Computer equipment and 350 new jobs in Transportation Equipment Manufacturing. It should be noted that the large percent increase in Furniture Manufacturing is purely a result of the very small base year employment in that sector. The 51% growth in this sector represents only 17 new jobs, hardly enough to offset losses in the other sectors.

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<sup>6</sup> It should be noted that Federal Military employment can be highly volatile and that the issue of a round of base closures similar those undertaken in the early 1990s has again been discussed by Congress. For an analysis of the potential impact of changes in military employment on Region 12, please see *Base Realignment and Closure: Region 12 Georgia*, prepared for the Savannah Chamber of Commerce.

### Manufacturing Non-Durables

In Region 12 the picture in Non-Durable Goods Manufacturing is mixed, but better than in the Durable Goods sector. Textiles, Apparel and Paper are all expected to continue to shrink for a combined loss of over 1,500 jobs. The loss of jobs in the Textile and Apparel sector is a continuous trend for Regions 7, 9, and 11 also. Region 12 has the smallest amount of job loss in the Textiles and Apparel sectors. However, Food Processing, Printing and Chemicals are all suppose to post significant gains with more than 2000 jobs added.

### Non-Manufacturing

The Non-Manufacturing sectors will provide most of Region 12's employment growth. The Service sector will grow by over 31% adding over 26,000 jobs. Compared to Regions 7, 9, and 11, Region 12 offers the most jobs in the Services sector. Employment in Agricultural, Forestry and Fishing Services will increase by 50% resulting in 1,900 new jobs. The Transportation and Public Utility Services sector will add 1,700 jobs and these will largely be in Transportation Services. Retail trade will grow, but will add only 1,200 jobs. Construction will grow by less than 900 jobs. Wholesale trade and Finance, Insurance, and Real Estate (FIRE) will actually lose employment.

**TABLE 12**  
**Employment By Occupation (Thous)**  
**Region 12**

<b>OCCUPATIONS</b>	<b>2000</b>	<b>2005</b>	<b>2010</b>	<b>2015</b>	<b>2020</b>	<b>%Change</b>
<b>Executive, adm. &amp; managerial</b>						
Managerial & administ	18.020	18.870	19.487	20.191	20.683	14.78%
Management support	9.095	9.450	9.717	10.049	10.260	12.81%
<b>Professional Specialty</b>						
Engineers	2.805	2.956	3.088	3.300	3.470	23.71%
Architects & surveyors	0.260	0.266	0.273	0.289	0.301	15.77%
Life scientists	0.453	0.497	0.538	0.579	0.615	35.76%
Comput, math & oper res	3.151	4.135	5.033	5.655	6.245	98.19%
Physical scientists	0.443	0.467	0.490	0.525	0.553	24.83%
Social scientists	0.502	0.532	0.560	0.582	0.598	19.12%
Social, rec & relig wrkrs	3.774	4.315	4.781	5.130	5.423	43.69%
Judges, magis & oth judic wrkrs	0.260	0.264	0.269	0.273	0.273	5.00%
Lawyers	0.996	1.081	1.161	1.253	1.332	33.73%
Teachers, librarians, couns	8.609	9.299	9.815	10.159	10.384	20.62%
Health diagnosing	1.382	1.550	1.715	1.861	1.994	44.28%
Hlth assessmnt & treating	5.589	6.112	6.607	7.026	7.377	31.99%
Writers, artists & entertainers	2.253	2.400	2.500	2.582	2.629	16.69%
All other profes wrkrs	1.702	1.797	1.882	1.959	2.015	18.39%
<b>Technician &amp; rel support</b>						
Hlth technic & technologists	4.956	5.445	5.902	6.289	6.617	33.51%
Engin & scienc tech & technol	2.497	2.568	2.637	2.761	2.850	14.14%
Tech, xcpt hlth, engin & scienc	2.152	2.295	2.428	2.534	2.617	21.61%
<b>Marketing and Sales</b>						
Cashiers	8.319	8.624	8.733	8.853	8.843	6.30%
Counter and rental clerks	1.198	1.284	1.351	1.398	1.422	18.70%
Insurance sales wrkrs	0.339	0.343	0.345	0.370	0.391	15.34%
Real est agents, brokers & apprais	0.389	0.387	0.382	0.378	0.372	-4.37%
Salespersons, retail	9.755	9.902	9.830	9.811	9.604	-1.55%
Secur & finan serv sales wrkrs	0.367	0.408	0.419	0.396	0.370	0.82%
Mktng & sales worker suprvisrs	3.968	4.139	4.219	4.301	4.311	8.64%
Travel agents	0.809	0.888	0.941	1.038	1.120	38.44%
All other sales & rel wrkrs	5.915	6.182	6.371	6.564	6.676	12.87%
<b>Adm spprt, incl clerical</b>						
Adjstrs, investiga & collectors	2.246	2.395	2.504	2.610	2.685	19.55%
Communic equip operators	0.524	0.472	0.420	0.387	0.348	-33.59%
Comput oper & periph equip oper	0.456	0.377	0.308	0.263	0.213	-53.29%
Fin records processing	5.166	5.001	4.838	4.810	4.718	-8.67%
Information clerks	4.213	4.534	4.796	5.099	5.349	26.96%
Mail clerks & messengers	0.471	0.469	0.466	0.469	0.467	-0.85%
Post clerks & mail carriers	1.553	1.588	1.648	1.725	1.776	14.36%
Material rec, sched, disp & distr	9.105	8.938	8.725	8.695	8.531	-6.30%
Recrd processing, xcpt fin	1.924	1.950	1.959	1.973	1.963	2.03%
Secretar, stenog & typists	7.139	6.838	6.554	6.440	6.231	-12.72%
Oth cleric & admin spprt wrkrs	16.372	17.052	17.530	17.957	18.190	11.10%

**TABLE 12 CONTINUED**  
**Employment By Occupation (Thous)**

OCCUPATIONS	Region 12					%Change
	2000	2005	2010	2015	2020	
<b>Service</b>						
Clean & blding serv, ex priv hh	8.028	8.230	8.366	8.634	8.808	9.72%
Food prep and service	24.295	25.187	25.614	26.341	26.941	10.89%
Health service	4.675	5.236	5.772	6.216	6.609	41.37%
Personal service	5.178	5.767	6.276	6.755	7.155	38.18%
Private household wrkrs	2.177	1.916	1.720	1.739	1.712	-21.36%
Protective service	8.264	9.108	9.826	10.199	10.481	26.83%
All other service wrkrs	3.043	3.253	3.408	3.567	3.700	21.59%
<b>Agri, for, fish &amp; rel Services</b>						
Anim brdrs&trnrs; caretak, ex farm	0.243	0.274	0.299	0.326	0.352	44.86%
Farm wrkrs	1.883	1.881	1.870	1.963	2.042	8.44%
Farm oper & managers	0.379	0.389	0.397	0.423	0.448	18.21%
Fish, hunters & trappers	0.049	0.042	0.037	0.035	0.032	-34.69%
Forestry & logging	0.222	0.223	0.225	0.237	0.247	11.26%
Gard, nurs, greenhse, lawn serv	2.801	3.044	3.240	3.458	3.662	30.74%
Supervisors, farm&for&agri rel	0.204	0.214	0.221	0.235	0.249	22.06%
Veter asst, all other rel wrkrs	0.932	0.970	0.997	1.053	1.104	18.45%
<b>Blue collr wrker supervisors</b>						
Blue collr wrker supervisors	4.180	4.303	4.388	4.537	4.637	10.93%
<b>Construction trades</b>						
Construction trades	10.310	10.424	10.542	10.797	11.006	6.75%
<b>Extract &amp; rel wrkres, incl blaster</b>						
Oil and gas extraction	0.019	0.020	0.020	0.021	0.021	10.53%
Mining, quarry & tunneling	0.006	0.006	0.006	0.006	0.006	0.00%
All other extraction & rel wrkrs	0.340	0.345	0.348	0.356	0.361	6.18%
<b>Mechan, installers &amp; rep</b>						
Commun equip mech, inst & rep	0.196	0.198	0.194	0.185	0.173	-11.73%
Electr equip mech, inst & rep	0.535	0.531	0.527	0.535	0.534	-0.19%
Mach&rel mech, inst & rep	4.227	4.294	4.323	4.424	4.477	5.91%
Vhicle&mobile equip mech & rep	3.368	3.527	3.665	3.781	3.845	14.16%
Other mech, inst & rep	2.815	2.920	2.994	3.088	3.146	11.76%
<b>Production, precision</b>						
Assemblers, precision	0.410	0.408	0.407	0.433	0.448	9.27%
Food wrkrs, precision	0.623	0.646	0.652	0.655	0.656	5.30%
Inspect, tsters & graders precis	1.064	1.034	1.006	1.022	1.023	-3.85%
Metal wrkrs, precision	0.989	0.991	1.003	1.064	1.103	11.53%
Printing wrkrs, precision	0.141	0.139	0.138	0.148	0.157	11.35%
Text, appar & furn wrkrs, precis	0.296	0.284	0.274	0.278	0.278	-6.08%
Woodwrkrs, precision	0.294	0.299	0.301	0.316	0.328	11.56%
Other precision wrkrs	0.379	0.384	0.385	0.394	0.397	4.75%
<b>Plant and System</b>						
Chemic plant & syst oper	0.114	0.123	0.128	0.140	0.149	30.70%
Elec pwr gen plant oper&distr&disp	0.100	0.098	0.098	0.102	0.105	5.00%
Gas & petro plant & syst	0.061	0.060	0.057	0.057	0.057	-6.56%
Stationary engineers	0.096	0.094	0.091	0.091	0.090	-6.25%
Water&liqu wste trtmnt plant&syst oper	0.326	0.348	0.367	0.377	0.384	17.79%
All other plant & syst oper	0.293	0.300	0.305	0.313	0.317	8.19%



**TABLE 12 CONTINUED**  
**Employment By Occupation (Thous)**  
**Region 12**

OCCUPATIONS	2000	2005	2010	2015	2020	%Change
<b>Mach setters &amp; oper &amp; tenders</b>						
Num ctrl mach tool oper, met&plast	0.100	0.112	0.125	0.141	0.154	54.00%
Comb mach tool setters&oper&tnders	0.108	0.112	0.116	0.127	0.135	25.00%
Mach tool cut&form oper, met&plast	0.741	0.705	0.680	0.704	0.713	-3.78%
Metal fabricat mach oper	0.180	0.179	0.180	0.191	0.200	11.11%
Met&plast process mach oper	0.364	0.372	0.372	0.397	0.413	13.46%
Print, binding & rel wrkrs	0.795	0.779	0.762	0.784	0.796	0.13%
Textile and related oper	0.567	0.532	0.503	0.503	0.500	-11.82%
Woodworking mach oper	0.224	0.213	0.206	0.217	0.226	0.89%
Oth mach setters&oper&tnders	4.862	4.955	4.993	5.165	5.278	8.56%
<b>Hand wrkrs, incl assemb&amp;fabricat</b>						
Hand wrkrs, incl assemb&fabricat	3.968	4.140	4.256	4.483	4.655	17.31%
<b>Transp&amp;mater moving mach&amp; vchle oper</b>						
Motor vehicle operators	7.519	7.842	7.986	8.118	8.159	8.51%
Rail transportation wrkrs	0.124	0.116	0.106	0.101	0.094	-24.19%
Water transp & rel wrkrs	0.342	0.353	0.356	0.379	0.395	15.50%
Material moving equip oper	1.681	1.727	1.749	1.802	1.837	9.28%
All other transp&mat mov equip oper	0.398	0.420	0.437	0.452	0.462	16.08%
<b>Help, labrs &amp; mat movers hand</b>						
Help, labrs & mat movers hand	11.426	11.667	11.849	12.116	12.265	7.34%

### Employment by Occupation

Table 12 translates the changes in employment by sector into changes in employment by occupation. The percent changes in blue are the occupation which will grow faster by more than twice the percent growth in Private Non-Farm employment.<sup>7</sup> Occupations growing faster than Private Non-Farm employment up to a 33% increase are labeled in green. Occupations growing by the same percent as Private Non-Farm or less are labeled in orange, and occupations losing jobs are labeled in red.

<sup>7</sup> Private Non-Farm employment is expected to grow by approximately 15%. Hence, occupations expected to grow by more than twice that amount had to have at least a 30% increase. To be included in the blue fast growing occupation the estimated percent change had to be 33% or more.

One characteristic that is shared by all of the occupations which will have the most new jobs and where opportunities will be created at a faster rate than over all job growth, is the need to know Mathematics, Science and Technology. To insure that students are qualified for future job markets, math education must be made a priority for all schools at all grade levels.

Employment in Professional Specialty Occupations will increase at between 16% and 98%, with Computer, Math and Operations Research alone adding nearly 3,100 jobs. While teaching occupations are expected to increase by only 20%, this represents a gain in jobs of 1,775. A total of 2,400 jobs will be created in Health Diagnosing and Health Assessment and Treatment.

Occupations supporting the Professional Specialty occupations such as Technicians & Related Support will generate over 1,700 jobs in Health Technology resulting in a 34% increase in employment in this occupational sector. An additional 900 jobs will be created in engineering, science and other technology occupations.

Marketing & Sales, Administrative Support and Clerical will be non-growth occupational sectors except for Information Clerks, which will add will introduce 1,136 jobs.

In the Service Occupations, employment in Health and Personal Services, represented in blue, will increase by nearly 2,000 jobs. This represents an increase of 41% and 38% respectively. Compared to Regions 9 and 11, Region 12 offers the more jobs within these sectors. There is one occupation in the Service Sector, however, that is not performing as well. Private Household Workers is expect to decrease by 21% over the next twenty years.

Overall, growth will be slow in manufacturing, processing and most blue collar occupations. Approximately 500 Blue Collar Worker Supervisory jobs will be created and about 700 jobs in Construction occupations will be created, qualifying these sectors to be represented as occupations growing by the same percent as Private Non-Farm or less, labeled in orange. A total of about 800 new jobs in Vehicle Repair and Other Machine or Instrument Repair occupations. The positive Trend in these occupations are unique to Region 12.

**TABLE 13**  
**Population (Thous): By Age and Race**  
**Region 12**

<b>POPULATION</b>	<b>2000</b>	<b>2005</b>	<b>2010</b>	<b>2015</b>	<b>2020</b>	<b>%Change</b>
As a % of U.S.	0.196	0.197	0.196	0.194	0.192	-2.04%
Total	540.476	566.391	587.206	604.748	620.672	14.84%
White	325.323	335.539	342.306	346.615	349.709	7.50%
Black	187.744	198.149	206.960	214.715	221.318	17.88%
Other	10.118	11.682	13.184	14.608	15.994	58.07%
Hispanic	17.291	21.021	24.755	28.810	33.651	94.62%
<b>AGE RANGE</b>						
0- 14	110.978	113.497	112.706	112.729	114.216	2.92%
15- 24	68.887	70.977	74.543	76.262	75.293	9.30%
25- 64	252.796	267.124	276.127	281.139	284.564	12.57%
65+	56.615	60.234	65.733	75.178	86.275	52.39%

### **Region 12 Population and Demographic Changes**

Total population in Region 12 will increase by 80,196 between 2000 and 2020. This will result in a 15% increase in the region's population. Table 13 shows the growth in population by race and age. REMI defines population as Mid-year estimates of population, including survivors from the previous year, births, special populations, and three types of migrants (economic, international, and retired). Region 12's population has been broken into two sections: total population by race and by age range. In a region with rapidly growing job opportunities in-migration effect both the profile of the labor force and the profile of the population. However, once the initial burst of migration has taken place then the number of people entering the labor force also increases due to natural increase. Hence, population by age ultimately tells the story of the labor force for the region.

The White population will decrease from 60% of total population to 55% of total population. The two fastest growing race classifications will be Hispanic and Other increasing by 95% and 58% respectively. The Hispanic population will increase by 16,360 and the populations included in the category Other races will increase by 5,875. The Black population will grow at twice the rate of the White population and will increase by 33,575.

The portion of the population over the age of 65 will increase from 10% to 14% in two decades. This age group will increase by nearly 30,000 persons, increasing by 52%. Compared to Region's 9 and 11, Region 12 has the most growth in this age group. By comparison the youth cohorts of 0 to 14 and 15 to 25 will grow by 9,600. These statistics highlight the primary social issue of the first two decades of the 21<sup>st</sup> century, the aging of the population associated with the baby boomers.

## **Conclusion**

High education occupations will absolutely dominate the region 12 market. These jobs will require competency and comfort with Math, Science and Technology and the associated skills of logic and problem solving.

Hispanic and Other ethnic populations will be an increasing portion of the regions workforce. This has implications both for educational institution and for other workforce training organizations.

Finally, like the other regions, Region 12, will have a very significant increase in the over age 65 population. This portion of the population will increase by 53% in the next 20 years. However, unlike the other regions, Region 12 will also have significant growth in the household formation age population as well as the teens population.

Finally, in the overall growth projected for this region, these forecasts assume a continued significant military presence in the region. The region currently has nearly 29,000 military jobs. Base Realignment and Closure place some or all of these at risk.

**SAVANNAH Area : Beaufort, Bryan, Chatham, Effingham, Hampton, Jasper, Liberty, and Screven**

This region is partially a subset of Region 12, but includes three counties in South Carolina which are economically linked to Savannah. The Gross Regional Product, as calculated by REMI, in the Savannah Area is expected to increase by 41%. This increase will elevate the 2000 GRP from \$15.25 billion, in constant 1992 dollars, to \$21.52 billion in 2020. By 2020, there will be a 12% increase in employment compared to 2000. Total employment in the Savannah Area will grow from 304,146 jobs in 2000, to 340,781 in 2020. With the increase in employment, Real Disposable Personal Income is expected to increase by 40% from \$10.36 billion to \$14.45 billion in 2020. Concurrent with the region's economic growth, the Savannah Area's population is expected to reach 589,511 people by 2020. This represents a 13% increase from 519,531 in 2000. In general, the Savannah Area is expected to have a steady growth period in the next twenty years. The regional growth is illustrated in more detail in the following three sections: employment by sector, employment by occupation, and population and demographic changes.

FIGURE 6  
SAVANNAH AREA



**TABLE 14**  
**Employment By Sector (Thous)**  
**Savannah Area**

<b>Employment</b>	<b>2000</b>	<b>2005</b>	<b>2010</b>	<b>2015</b>	<b>2020</b>	<b>%Change</b>
Private Non-Farm	229.527	237.756	243.308	251.127	256.281	11.66%
Government	72.900	76.996	80.928	82.432	83.204	14.13%
Farm	1.720	1.561	1.433	1.363	1.296	-24.65%
<b>Disaggregation</b>						
<b>Private Non-Farm:</b>						
<i>Manufacturing-Durable</i>						
Lumber	1.748	1.682	1.656	1.766	1.862	6.52%
Furniture	0.017	0.017	0.017	0.020	0.023	35.29%
Stone,Clay,Etc.	1.223	1.157	1.105	1.128	1.141	-6.70%
Primary Metals	0.035	0.029	0.025	0.025	0.024	-31.43%
Fabricated Metals	0.266	0.275	0.293	0.357	0.426	60.15%
Machin & Comput	1.312	1.291	1.455	1.596	1.692	28.96%
Electric Equip	0.114	0.132	0.161	0.215	0.274	140.35%
Motor Vehicles	0.511	0.476	0.413	0.443	0.462	-9.59%
Rest Trans Equip	5.496	5.506	5.357	5.695	5.896	7.28%
Instruments	0.016	0.016	0.015	0.015	0.014	-12.50%
Misc. Manufact	0.110	0.107	0.101	0.102	0.101	-8.18%
<i>Manufacturing-NonDurable</i>						
Food	1.658	1.685	1.672	1.676	1.685	1.63%
Tobacco Manuf	0.000	0.000	0.000	0.000	0.000	0.00%
Textiles	0.832	0.746	0.644	0.583	0.513	-38.34%
Apparel	0.549	0.466	0.392	0.334	0.287	-47.72%
Paper	4.410	4.154	3.930	3.920	3.847	-12.77%
Printing	1.343	1.341	1.348	1.473	1.588	18.24%
Chemicals	2.257	2.306	2.315	2.469	2.580	14.31%
Petro Products	0.289	0.287	0.275	0.269	0.263	-9.00%
Rubber	1.031	1.108	1.161	1.231	1.265	22.70%
Leather	0.000	0.000	0.000	0.000	0.000	0.00%
<i>Non-Manufacturing</i>						
Mining	0.191	0.196	0.203	0.207	0.208	8.90%
Construction	19.983	19.585	19.398	19.600	19.872	-0.56%
Trans.&Public Util.	14.261	14.991	15.313	15.750	15.993	12.15%
Fin&Ins&Real Est	17.516	17.729	17.616	17.522	17.272	-1.39%
Retail Trade	58.743	59.649	59.302	59.312	58.680	-0.11%
Wholesale Trade	7.564	7.465	7.258	7.245	7.096	-6.19%
Services	83.602	90.519	96.668	102.351	106.820	27.77%
Agri&For&Fish Serv	4.451	4.840	5.212	5.824	6.398	43.74%
<i>Government</i>						
State and Local	29.703	31.743	33.256	33.683	33.806	13.81%
Federal Civilian	8.701	8.365	8.287	8.429	8.447	-2.92%
Federal Military	34.496	36.887	39.385	40.320	40.951	18.71%

## **Employment by Sector**

In Table 14, employment is separated into different categories: Private Non-Farm, Government, and Farm. Private Non-Farm employment is further divided into Manufacturing Durables, Manufacturing Non-Durables and Non-Manufacturing.

### Private Non-Farm, Government, and Farm

In the Private Non-Farm sector, percent growth within a 20 year span will double from 6% in ten years to 12%. This will lead to an increase in jobs from about 14,000 in the first ten years to about 27,000 jobs in twenty years. The Government sector will have a gradual increase over the 20 year span. The total overall expected growth in government employment will be 14%. This represents an additional 10,304 new jobs to the area.<sup>8</sup> The Farm sector is expected to decrease over the next twenty years. In 2000, the Farm sector makes up 1,720 jobs. However, in the years following, it drops to represent 1,296 in 2020 with a negative 25% change. This results in an extra 400 jobs that are lost due to the decrease. However, farming will continue to account for over on third of GRP.

### Manufacturing Durables

Within the Private Non-Farm sector is the Manufacturing Durables sector which contains segments such as Lumber, Furniture, Electric Equipment, etc. The Electric Equipment manufacturing will grow by the largest amount with 140% over the next twenty-year period; however, this only translates into an absolute increase of 160 jobs. The second largest will be the Machinery and

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<sup>8</sup>This includes projected increase in military employment. With proposed further *Base Realignment and Closure*, this expected growth may not occur.



Computers occupation with a total increase of 380 jobs, or 29%. There will be some losses in this sector, mainly in the Primary Metals, Stone, Clay, Etc., and Motor Vehicles. The overall growth of this sector is expected to be 10% over the next twenty years.

### Manufacturing Non-Durables

Along with the Manufacturing Durables, is Manufacturing Non-Durables. This sector is expected to have as many increases in jobs as decreases. The three sectors with the largest increases will be Printing, Chemicals, and Rubber with an increase of 18%, 14%, and 23% respectively. These three sectors combined will add 802 new jobs to the area. On the other hand, there are several sectors that will have negative growth. Among these sectors are Textiles, Apparel, and Paper with a decrease of 38%, 48%, and 13%. The total loss with all three sectors amounts to 1,144 jobs. Overall this sector is expected to decrease by 3%.

### Non-Manufacturing

In Non-Manufacturing, there are three sectors that are increasing. They are Transportation and Public Utilities, Agriculture & Fish Services, and Services with 12%, 44%, and 28%. Services will provide the majority of growth in total number of jobs, 23,218; however, Transportation and Public Utilities and Agriculture & Fish Services will provide 3,697 jobs together. The overall growth in this sector is an estimated 11.66% and growth in Non-Manufacturing jobs will provide about 28,000 jobs in the next twenty years.

**TABLE 15**  
**Employment By Occupation (Thous)**  
**Savannah Area**

<b>OCCUPATIONS</b>	<b>2000</b>	<b>2005</b>	<b>2010</b>	<b>2015</b>	<b>2020</b>	<b>%Change</b>
<b>Executive, adm. &amp; managerial</b>						
Managerial & administ	18.141	18.903	19.443	20.054	20.467	12.82%
Management support	8.616	8.941	9.177	9.470	9.652	12.02%
<b>Professional Specialty</b>						
Engineers	2.653	2.799	2.929	3.136	3.304	24.54%
Architects & surveyors	0.269	0.273	0.278	0.293	0.304	13.01%
Life scientists	0.410	0.450	0.487	0.523	0.555	35.37%
Comput, math & oper res	2.951	3.871	4.708	5.287	5.837	97.80%
Physical scientists	0.404	0.425	0.448	0.479	0.506	25.25%
Social scientists	0.461	0.489	0.514	0.532	0.545	18.22%
Social, rec & relig wrkrs	3.666	4.186	4.615	4.921	5.165	40.89%
Judges, magis & oth judic wrkrs	0.224	0.227	0.231	0.234	0.233	4.02%
Lawyers	0.980	1.056	1.128	1.213	1.285	31.12%
Teachers, librarians, couns	8.395	9.086	9.565	9.864	10.040	19.59%
Health diagnosing	1.274	1.419	1.559	1.679	1.785	40.11%
Hlth assessmnt & treating	5.133	5.572	5.971	6.290	6.544	27.49%
Writers, artists & entertainers	2.332	2.482	2.578	2.648	2.681	14.97%
All other profes wrkrs	1.612	1.706	1.786	1.856	1.905	18.18%
<b>Technician &amp; rel support</b>						
Hlth technic & technologists	4.700	5.131	5.520	5.834	6.088	29.53%
Engin & scienc tech & technol	2.360	2.423	2.487	2.605	2.691	14.03%
Tech, xcpt hlth, engin & scienc	2.074	2.210	2.334	2.432	2.509	20.97%
<b>Marketing and Sales</b>						
Cashiers	8.141	8.406	8.472	8.533	8.475	4.10%
Counter and rental clerks	1.326	1.412	1.476	1.519	1.538	15.99%
Insurance sales wrkrs	0.333	0.338	0.341	0.365	0.384	15.32%
Real est agents, brokers & apprais	0.579	0.573	0.566	0.563	0.556	-3.97%
Salespersons, retail	9.469	9.561	9.438	9.356	9.102	-3.88%
Secur & finan serv sales wrkrs	0.404	0.456	0.471	0.446	0.415	2.72%
Mktng & sales worker suprvisrs	3.919	4.072	4.133	4.191	4.181	6.69%
Travel agents	0.752	0.827	0.878	0.968	1.045	38.96%
All other sales & rel wrkrs	5.690	5.932	6.104	6.272	6.366	11.88%
<b>Adm spprt, incl clerical</b>						
Adjstrs, investiga & collectors	2.061	2.197	2.295	2.387	2.452	18.97%
Communic equip operators	0.510	0.459	0.407	0.373	0.333	-34.71%
Comput oper & periph equip oper	0.423	0.350	0.286	0.244	0.197	-53.43%
Fin records processing	5.143	4.941	4.752	4.697	4.585	-10.85%
Information clerks	4.223	4.537	4.795	5.086	5.325	26.10%
Mail clerks & messengers	0.452	0.450	0.446	0.448	0.445	-1.55%
Post clerks & mail carriers	1.346	1.377	1.429	1.495	1.540	14.41%
Material rec, sched, disp & distr	8.582	8.391	8.156	8.090	7.905	-7.89%

**TABLE 15 CONTINUED**  
**Employment By Occupation (Thous)**

OCCUPATIONS	Savannah Area					%Change
	2000	2005	2010	2015	2020	
<b>Service</b>						
Clean & bldg serv, ex priv hh	8.004	8.155	8.260	8.497	8.640	7.95%
Food prep and service	23.866	24.671	25.001	25.562	26.006	8.97%
Health service	4.325	4.810	5.257	5.608	5.905	36.53%
Personal service	5.591	6.169	6.654	7.092	7.437	33.02%
Private household wrkrs	2.325	2.055	1.842	1.850	1.806	-22.32%
Protective service	7.500	8.245	8.848	9.137	9.342	24.56%
All other service wrkrs	3.111	3.313	3.456	3.599	3.713	19.35%
<b>Agri, for, fish &amp; rel</b>						
Anim brdrs&trnrs; caretak, ex farm	0.270	0.302	0.328	0.357	0.384	42.22%
Farm wrkrs	2.121	2.079	2.057	2.156	2.235	5.37%
Farm oper & managers	0.427	0.430	0.436	0.465	0.490	14.75%
Fish, hunters & trappers	0.055	0.047	0.041	0.038	0.035	-36.36%
Forestry & logging	0.213	0.212	0.213	0.224	0.233	9.39%
Gard, nurs, greenhse, lawn serv	3.200	3.434	3.633	3.860	4.069	27.16%
Supervisors, farm&for&agri rel	0.235	0.241	0.247	0.263	0.276	17.45%
Veter asst, all other rel wrkrs	0.984	1.003	1.021	1.078	1.126	14.43%
<b>Blue collr wrker supervisors</b>						
Blue collr wrker supervisors	4.004	4.082	4.137	4.255	4.334	8.24%
<b>Construction trades</b>						
Construction trades	11.123	11.040	11.025	11.191	11.359	2.12%
<b>Extract &amp; rel wrkres, incl blaster</b>						
Oil and gas extraction	0.024	0.026	0.028	0.029	0.030	25.00%
Mining, quarry & tunneling	0.007	0.008	0.008	0.008	0.008	14.29%
All other extraction & rel wrkrs	0.339	0.344	0.347	0.356	0.360	6.19%
<b>Mechan, installers &amp; rep</b>						
Commun equip mech, inst & rep	0.207	0.211	0.207	0.197	0.184	-11.11%
Electr equip mech, inst & rep	0.534	0.527	0.520	0.527	0.525	-1.69%
Mach&rel mech, inst & rep	4.466	4.538	4.575	4.675	4.726	5.82%
Vhicle&mobile equip mech & rep	3.117	3.223	3.307	3.381	3.409	9.37%
Other mech, inst & rep	2.902	2.988	3.048	3.128	3.178	9.51%
<b>Production, precision</b>						
Assemblers, precision	0.365	0.365	0.369	0.397	0.418	14.52%
Food wrkrs, precision	0.486	0.457	0.426	0.410	0.390	-19.75%
Inspect, tsters & graders precis	0.985	0.951	0.924	0.938	0.937	-4.87%
Metal wrkrs, precision	0.863	0.865	0.877	0.931	0.966	11.94%
Printing wrkrs, precision	0.124	0.122	0.121	0.130	0.139	12.10%
Text, appar & furn wrkrs, precis	0.350	0.333	0.318	0.319	0.315	-10.00%
Woodwrkrs, precision	0.297	0.297	0.298	0.310	0.319	7.41%
Other precision wrkrs	0.331	0.333	0.333	0.339	0.340	2.72%
<b>Plant and System</b>						
Chemic plant & syst oper	0.096	0.104	0.108	0.118	0.125	30.21%
Elec pwr gen plant oper&distr&disp	0.094	0.093	0.094	0.099	0.103	9.57%
Gas & petro plant & syst	0.061	0.060	0.058	0.059	0.058	-4.92%
Stationary engineers	0.092	0.090	0.088	0.088	0.087	-5.43%
Water&liqu wste trtmnt plant&syst oper	0.281	0.301	0.317	0.326	0.331	17.79%
All other plant & syst oper	0.261	0.266	0.270	0.277	0.280	7.28%

**TABLE 15 CONTINUED**  
**Employment By Occupation (Thous)**  
**Savannah Area**

OCCUPATIONS	2000	2005	2010	2015	2020	%Change
<b>Mach setters &amp; oper &amp; tenders</b>						
Num ctrl mach tool oper, met&plast	0.080	0.090	0.101	0.114	0.126	57.50%
Comb mach tool setters&oper&tnders	0.087	0.093	0.098	0.108	0.117	34.48%
Mach tool cut&form oper, met&plast	0.524	0.508	0.503	0.528	0.542	3.44%
Metal fabricat mach oper	0.128	0.127	0.130	0.141	0.149	16.41%
Met&plast process mach oper	0.327	0.351	0.369	0.400	0.422	29.05%
Print, binding & rel wrkrs	0.641	0.633	0.624	0.647	0.662	3.28%
Textile and related oper	1.073	0.964	0.863	0.817	0.767	-28.52%
Woodworking mach oper	0.221	0.207	0.199	0.209	0.216	-2.26%
Oth mach setters&oper&tnders	3.980	4.007	4.015	4.159	4.251	6.81%
<b>Hand wrkrs, incl assemb&amp;fabricat</b>						
Hand wrkrs, incl assemb&fabricat	3.496	3.568	3.618	3.798	3.927	12.33%
<b>Transp&amp;mater moving mach&amp; vchle oper</b>						
Motor vehicle operators	7.631	7.910	8.022	8.121	8.129	6.53%
Rail transportation wrkrs	0.121	0.112	0.103	0.097	0.091	-24.79%
Water transp & rel wrkrs	0.318	0.329	0.332	0.353	0.368	15.72%
Material moving equip oper	1.550	1.582	1.598	1.642	1.671	7.81%
All other transp&mat mov equip oper	0.388	0.407	0.421	0.435	0.443	14.18%
<b>Help, labrs &amp; mat movers hand</b>						
Help, labrs & mat movers hand	10.930	10.989	11.040	11.210	11.287	3.27%

### Employment by Occupation

Table 15 converts the change in employment by sector into changes in employment by occupation. The table will portray changes in occupation in 5 year increments beginning with 2000 and ending in 2020. The percent changes in blue are the occupations which will grow faster than twice the percent of growth in Private Non-Farm employment. Occupations growing faster than Private Non-Farm employment up to twice the percent of growth are labeled in green. Occupations growing by the same percent as Private Non-Farm employment or less are labeled in orange, and occupations that will lose jobs are labeled in red.

In 2000, The Service sector, the major employer in the Savannah Area, provides 54,722 jobs. Of the total employment in the Service sector, 44% came from the Food Preparation & Services. The total number of jobs offered by this group of occupations is expected to increase by 8.97% from 23,868 to 26,006 during the next two decades. The two fastest growing occupations in the Service sector are Health Services, increasing by 36.53% over the next twenty years, and Personal Services, growing by 33.02%. These two sectors are classified in blue because they grow faster than twice the percent of growth in Private Non-Farm employment. In red, Private Household Workers, on the other hand, is expected to decrease total employment opportunities by 22.32% by 2020.

Administrative Support & Clerical occupations, the second largest occupation in the region offering 47,247 jobs in 2000, is expected to have no overall growth in the next twenty years. Even though Information Clerks, Collectors, and Postal Clerks are expected to increase by 26.10%, 18.97%, and 14.41% respectively, there will be sharp decreases in other occupations. The two largest decreases will be in Computer operators, 53.43%, and Communication Equipment Operators, 34.71%. Overall, Administrative Support & Clerical occupations, will grow by 1% providing about 600 jobs.

Occupations with the fastest growth are in the Professional Specialty field. The entire group of occupations is expected to grow by 32.26%. Employment, over the next two decades, will grow from 30,764 in 2000, to 40,689 in 2020 . Within this occupational field, Computing, in blue, is the fastest growing occupation, growing 97.80% by the year 2020 from 2,951 to 5,837 jobs. Teachers, Librarians, and Counselors account for 8,395 jobs and are expected to grow 19.59% by the year 2020.

**TABLE 16**  
**Population (Thous) : By age and race**  
**Savannah Area**

<b>POPULATION</b>	<b>2000</b>	<b>2005</b>	<b>2010</b>	<b>2015</b>	<b>2020</b>	<b>%Change</b>
As a % of U.S.	0.189	0.190	0.188	0.185	0.182	-3.70%
Total	519.531	545.747	564.091	577.705	589.511	13.47%
White	298.944	308.750	313.587	315.301	315.952	5.69%
Black	194.059	205.310	213.854	220.657	226.110	16.52%
Other	9.338	10.943	12.450	13.849	15.202	62.80%
Hispanic	17.190	20.744	24.200	27.898	32.248	87.60%
<b>AGE RANGE</b>						
0- 14	102.380	105.413	105.177	105.447	106.959	4.47%
15- 24	60.004	64.922	68.296	69.314	68.315	13.85%
25- 64	230.389	240.227	246.126	248.648	249.193	8.16%
65+	63.221	67.475	72.491	80.721	90.349	42.91%

### **Population and Demographic Changes**

Total population was divided into two sections: total population by race and by age range. This was done in order to better explain the demographic changes in the region. During the next twenty years, population in the Savannah Area is expected to increase by 13.47%, reaching 589,511 people in the year 2020. During the next two decades, the White population is expected to grow by 5.69%, Black population by 16.52%, Hispanic population by 87.60%, and Other category by 62.80%.

The Hispanic population is expected to grow, in relative to total population, from 3.31% in 2000 to 5.47% in 2020. The major cause for the Hispanic growth in the region will be due to a 107.32% growth of the natural population. However, this high birth rate is largely a function of the small initial base population.

In 2000, the Other ethnic population comprised 1.79% of the total population in the Savannah Area. During the next twenty years, this population is expected to grow from 9,338 to 15,202 people, rising by 2.57% as a share of total population. The major motive for the growth is the 78.40% increase in the natural growth rate. This again is largely a function of the small initial base population.

Similar to Regions 7, 9, 11, and 12, the population of the Savannah Area is expected to grow older in the next two decades. The fastest growing segment of the population, with respect to age, is the segment of people over the age of 65. This group is expected to increase by 42.91% during the next two decades. This represents an increase of about 27,000 people. The next largest growth is the 15 to 24 age range at 14%, or about 8,300 people. This means that the region will have an increasingly older population.

## **Conclusion**

Even though the Savannah Area market is made only of a portion of Region 12 and an additional three counties in South Carolina. The Savannah Area economy and the Region 12 economy are very much alike. One slight exception may be that the Savannah Area with Savannah as the regions primary growth center will have relatively more growth in Professional Services, Services and relatively less growth in manufacturing.

Additionally, the region will have a slightly lower percent increase in the over age 65 population and prominent percent increase in teens and healthy growth in the household formation cohort.