MONTHLY REVIEW

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FEDERAL RESERVE BANK OF ATLANTA

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Soybeans: America's Cinderella Crop

The United States' soybean industry is experiencing one of the most outstanding growth levels ever recorded in American agriculture. In the last fifteen years, soybeans have moved from sixth to first place* as a source of farm cash receipts from crop sales. The 150-percent jump in acreages, the 125-percent expansion in domestic consumption, and the 850-percent gain in soybean exports all tell the same story. But why did soybean production suddenly mushroom? Why have markets expanded so rapidly? Why are soybeans one of the few major crops that have not experienced surplus problems? Why is output moving into regions previously not used for soybean production?

The answers seem to lie largely in the adaptability of soybeans to numerous uses, its record of being a cheap source of protein, growth in other industries using soybean products, and the years of research to solve both production problems and the development of new and improved products.

The Oldest Crop

In one respect, the soybean is one of the oldest crops in the U. S. today. According to literature, it was being "adopted to Pennsylvania" in the 1800's. However, the soybean was cultivated in China long before written records were kept.

*BASED on preliminary estimates of crop sales. In terms of the value of crop production, corn still ranks first, followed by soybeans.

Monthly Review, Vol. LII, No. 6. Free subscription and additional copies available upon request to the Research Department, Federal Reserve Bank of Atlanta, Atlanta, Georgia 30303. The success of the soybean on U. S. soil was not immediate. For nearly 100 years beans were grown primarily as garden plants with little or no cultivation for commercial agriculture. After the turn of the century, however, their agricultural importance was recognized. Planted acreages grew from approximately 50,000 acres in 1907 to nearly 500,000 by 1917 and nearly 2 million in 1925. The crop was used mainly for hay, grazing, and soil-enrichment. Only onefourth of the acreages were harvested for beans each year, providing little more than the following year's seed supply.

The modern era of soybean production did not occur until the late 1930's and early 1940's. By this time, the infant commercial soybean processing industries were about a decade old, and the plant capacity for processing soybeans was beginning to grow. In the early war years, approximately 80 percent of the annual soybean production was processed commercially, compared with 25 and 65 percent in 1934 and 1937, respectively.

World War II stimulated the industry. Strong demands for food to fill the "fifth plate" caused bean prices to climb sharply from depression levels. Soybean oil meal, which evolved as a major product in the processing operation, was used increasingly as a high protein feed concentrate for livestock. War-time demands also caused the predominant use of soybean oil to shift from nonfood uses, such as paint, varnish, and soap, to human consumption. Soybean oil began to be used for vegetable shortening, margarine, cooking oil, mayonnaise, candies, and other food items.

Thus, by the end of World War II, soybeans had become the newest major cash crop. Production was concentrated in Iowa, Illinois, Indiana, and Ohio, but some output occurred in

940's. Bymillion acres, or 150 percent. New records were
established every year except 1959 and 1960.and theSimilarly, total production more than tripled,
reflecting some advance in yields and the pro-
portion of soybean acreages harvested for grain.
However, larger acreages were the dominant force
pushing aggregate production up.

In the processing and marketing phase of the industry, similar gains have occurred in the last 16 years. The domestic processing capacity for the 1966-67 marketing season is expected to reach 650 million bushels, more than doubling the capacity in 1950. The average capacity per plant has more than tripled, however, because the number of processing units has dropped from nearly 200 to less than 130. Meanwhile, both domestic and foreign demands for beans have advanced as fast or faster than aggregate production, causing average prices for soybeans and soybean meal to trend sharply upward in recent years. The successive years of record production and the relatively fast expansion of markets have caused one writer to state that "the paradox of new records and shortages is normal in the soybean industry."

every state north and east of Texas, excluding

New England. Yields ranged from 18 to 20 bush-

els per acre, and total production approached the

200-million bushel mark. Over 95 percent of the

total production was consumed in domestic mar-

Boom in 1950's and 1960's

By the 1950's and 1960's, the economic impor-

tance of this sleeping giant had been fully recog-

nized, and all phases of the industry began ex-

panding rapidly. From 1950 through 1966, the

planted acreage of soybeans increased to 37.4

kets with exports at very low levels.

In explaining why the industry has grown so rapidly, it is necessary to identify the major markets or users of soybeans. The market is divided into the domestic and foreign components. Within the domestic market, the heaviest demands are for soybean oil and meal, the two basic elements from the crushing process. Foreign markets demand whole beans, soybean oil, and soybean meal.

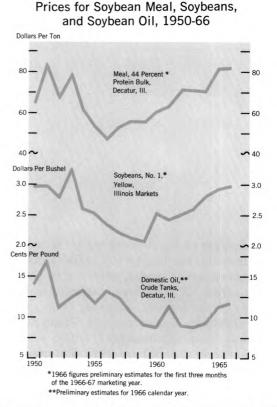
Domestic Market

A bushel of beans, 60 pounds, usually yields about 10.8 pounds of oil and 47.5 pounds of meal. The oil typically makes up about two-fifths of the value of the products, while the meal provides three-fifths. The rapidly growing demand for meal has contributed to most of the strength in the domestic soybean market in recent years.

Soybean meal is used primarily as a high protein feed concentrate for livestock. Therefore, the demand for meal is related to growth in the livestock industry and changes in the supplies of feeds that are competitive with soybean meal.

Generally, since 1950, the production of most livestock and livestock products has increased in the U.S. For example, national broiler production gained over four-fold in this period, while dairy products and red meat output are up 4 and 44 percent, respectively. Also, the output of cottonseed meal, another major source of vegetable protein, has not advanced, so that soybean meal now claims a greater proportion of the protein concentrate in animal feed rations. Furthermore, the general recognition by livestock producers that feeding protein concentrates is profitable has stimulated soybean meal consumption. Thus, the total impact of these and other forces in the domestic market, plus growing exports of soybean meal, has caused meal prices to increase over 70 percent since the 1956-57 season, despite a similar gain in meal production.

The domestic demand for soybean oil has also grown in recent years, but not nearly so strongly as for soybean meal. Since the early 1950's, the use or disappearance of major food fats has expanded from 7 to 9 billion pounds, and soybean oil has gained steadily from less than one-third to 55 percent of the total food fat supply. These trends reflect the decline in consumption of butter and lard and the expanding use of vegetable oils in the production of margarine, shortening, mayonnaise, salad dressings, potato chips, frozen french fries, mellorine, baking products, and other prepared foods.



However, despite this increase in domestic utilization of soybean oil, total private demands have failed to use the annual supply of oil. Thus, the government has diverted large amounts of oil into the export market under various surplus disposal-foreign aid programs. This relatively slow growth in domestic consumption, combined with the lack of a strong foreign market, has caused the wholesale price for soybean oil to trend irregularly downward since 1950.

Export Markets

Total exports of whole soybeans in 1966 have rocketed to a level over nine times higher than in 1950, with exports almost equalling the volume of beans processed domestically. This tremendous increase largely reflects the rising incomes, populations, and livestock industries in postwar Europe, Japan, Canada, and other prosperous nations. Currently, European countries purchase about 55 percent of all soybeans exported by the U.S. Just as in the U.S., these countries need relatively more soybean meal than oil. Thus, many buy for processing in their own mills enough whole beans to satisfy their domestic soybean oil requirements. To round out their soybean meal needs, they then obtain additional quantities of meal from U.S. processors.

Digitize**76**or FRASER http://fraser.stlouisfed.org/ Federal Reserve Bank of St. Louis Continued rising personal incomes in European countries are expected to stimulate further demands for preferred foods, such as meat and livestock products, resulting in even larger markets for U. S. soybeans for years to come.

Japan is now the largest single foreign purchaser of soybeans. Unlike the U. S. and Europe, however, processors in Japan and other oriental countries make the whole bean into highly nutritious foods for human consumption. The Japanese probably will purchase even more soybeans to supplement further existing food supplies.

Since 1950, exports of soybean oil have trended irregularly upward, with a large percent of the annual volume being donated or sold for soft currencies mainly under the provisions of Public Law 480. A larger number of the countries importing U. S. soybean oil could be classed as developing nations, which use the oil to supplement food supplies. Government support of soybean oil exports will probably continue unless new or wider uses for this product are developed, causing dollar purchases to turn upward.

The Southeast—A Major Producing Region

Since the national soybean industry is an amazing success story in itself, some significant trends within producing regions might be overlooked. In the first three decades of the twentieth century, a relatively high proportion of the nation's bean acreages was grown in the South as hay and green manure crops. However, as more beans were harvested for grain, the midwestern states became the major producers.

Possible reasons for the migration of production into the Midwest include the development of varieties adaptable to many soil and climate conditions. But perhaps of equal importance was the type of agricultural production and the marketing structure existing in the Midwest at that time.

By the mid-1930's, midwestern agriculture was rapidly becoming mechanized. Soybeans could be planted and cultivated with conventional row crop equipment. Also, the new crop could be harvested with relatively small field combines that were replacing the stationary thrashing machines formerly required to harvest small grains. Thus, most farmers needed no additional equipment to grow soybeans.

Similarly, existing storage facilities were adaptable to soybean production. Any type of grainery or bin that held small grains could be used to store soybeans. This allowed farmers to store their annual seed supply, plus hold the balance of the crop until the best prices were offered.

Perhaps the most important factor attracting soybean production to the Midwest was the marketing facilities available for soybean sales. A majority of the small towns had grain elevators located primarily along railroads for storing and marketing small grains. When soybean processing plants were built and demand grew, the channels for purchasing beans from farmers and shipping them to processors were already in existence.

In the South, however, agriculture in the mid-1930's could be characterized as a single crop, or cotton, economy. Horses and mules were the main source of power. Corn, grown mainly to feed working stock, was harvested by hand, and the acreage of small grain crops requiring combines was very small. Cotton gins were nearly as numerous as local elevators in the Midwest, but the market structure for cotton was not adaptable to the handling and sale of soybeans. Thus, the general lack of harvesting, storage, and marketing facilities slowed the expansion of soybean production in the South.

Today, however, southern agriculture is changing dramatically. Cotton and corn acreages have declined almost continuously since the 1930's. Large acreages have been abandoned or planted in trees and pasture. Livestock production is becoming important in many areas, as the output of broilers, eggs, and beef cattle advance. And many farmers are now seeking alternative sources of income. These and other important factors are contributing to expanded soybean production in the South.

From 1950 to 1966, soybean acreages in the Soybeans: Planted Acreages and Number of





U. S. advanced nearly 150 percent; however, in Alabama, Florida, Georgia, Louisiana, Mississippi, and Tennessee, total acreages approached a 220-percent gain. Similarly, total production more than tripled in the U. S., but jumped nearly seven times in the six District states.

Perhaps more significant, however, is the change in the last five years. Since 1962, U. S. acreages have jumped one-third, while planted acreages in the six states have more than doubled. Louisiana farmers are planting over three times the acreage seeded in 1962.

Perhaps the best example of farmers utilizing existing production equipment and marketing facilities is in the rice producing regions of Louisiana. These farmers use a three-year rotation, leaving the land idle for two years after one crop of rice. This rotation lets air back into the soil after being flooded. Significant acreages of land are available for soybeans, because this crop can be grown on idle acreage and still achieve the objectives of soil aeration. The farmers use their rice combines to harvest the crop, and the beans are sold at the rice marketing facilities. Elsewhere in the state, newly cleared lands, pasture, and other croplands are being planted in soybeans. Thus, factors nearly identical to the ones that encouraged the movement of soybeans into the Midwest in the 1930's are now contributing to unequaled production gains in Louisiana.

Somewhat different factors are causing sharp gains in soybean acreages and production north of Mobile, Alabama. Farmers in this area truck their soybeans to a large export elevator in Mobile. This facility has been enlarged and is one of the many exporting points for various grain crops located along the Gulf Coast. The availability of a relatively close market allows south central Alabama farmers to grow soybeans, even though many have had to purchase harvesting equipment. Generally, large acreages of land are available in this region, because cotton and corn acreages have been declining for many years.

In most areas of the South, however, farmers desiring to grow soybeans are not as fortunate as producers in Louisiana's Rice Belt or the farmers near Mobile and other cities with existing markets. If soybean production is to expand into all parts of the South, further development of marketing facilities near producing areas is essential. Local markets would allow farmers in the region to grow beans and take them to market in farm trucks or wagons. The beans would then be shipped by barge, rail, or semitrailer truck to processing plants, terminal markets, or export markets like Mobile. Such a local buying station was constructed in 1965 near Demopolis, Alabama, on the Tombigbee River. Beans can be shipped from this elevator to Mobile by barge. A similar station has been built at Milton, Florida.

As marketing points become more numerous in the Southeast, more farmers will find it profitable to grow soybeans on land now idle or planted in trees, corn, pasture or other crops. Farmers who own large farms will purchase their own harvesting equipment, while several producers with small acreages may buy the equipment jointly. Some dealers may lease combines to farmers planting beans.

Generally, the long-range outlook for the southern soybean industry is good. Unless the relatively profitable production conditions are changed by fluctuating prices and/or production costs, soybean acreages can be expected to expand in the Southeast. And the rate of expansion may remain above that of the U. S. Anticipated soybean acreages are expected to increase 3.2 million acres during the present crop year. Over one-third of the gain will occur in District states.

ROBERT E. SWEENEY

Bank Announcements

On May 1, four nonmember banks began to remit at par for checks drawn on them when received from the Federal Reserve Bank. They are the **Bank of Heflin**, Heflin, Alabama; **Fayette State Bank**, Peachtree City, Georgia; **Moultrie Banking Company**, Moultrie, Georgia; and **The Patterson Bank**, Patterson, Georgia.

A newly organized nonmember bank, Sugarland State

Bank, Jeanerette, Louisiana, opened for business on May 27 and began to remit at par. Officers include Wade Breaux, president; R. J. Bouterie, executive vice president and cashier; and Harold Junca, Sr., vice president. Capital is \$250,000; surplus and other capital funds, \$250,000.

Diversification of District Employment

Views on promoting the diversification of a region's economy have changed through the years. During the age of mercantilism, public officials stressed diversification in order to make their area more self-sufficient. Concurrent with the publication of Adam Smith's *The Wealth of Nations* in 1776 was the switch in emphasis to economic specialization. The worldwide depression of the 1930's led many areas which were especially hard-hit by the economic decline to seek ways to diversify their economies. Industrial diversification received particular emphasis throughout the Southeast, and several of the states passed legislation to encourage it as a means of decreasing dependence on agriculture.

Measures

Diversification is generally equated with the presence of many different industries in an area or a "balance" among different industries. The critical elements are the number of industries and their relative importance. The concept of "balance" requires a norm for comparison. In measures of diversification in local areas, the distribution of economic activity in the nation is the norm. If a local area has the same percentage of total employment in each sector as the nation, it receives a score of 100. The greater the deviations, the smaller the index. This index tells how close the structure of an area's economy is to that of the nation.

Economic activity could have been measured by other variables, such as payrolls, value added, or output. Employment was chosen because of the greater availability of employment data and the widespread interest attached to it. Other variables would give somewhat different measures of diversification.

Of the three different diversification indexes used in this study, the first is based upon the percentage distribution of total employment among the nine divisions in the economy. The other two are based upon total manufacturing employment, with one index relating to employment in 20 major groups and the other to 142 industries.*

The diversification measure of total employment is the most comprehensive, but the least detailed. This index would be more

^{*}A description and listing of industry groups are given in the appendix.

important in measuring diversification changes in areas dominated by a major sector such as agriculture. In more industrialized areas, on the other hand, a measure of the diversification of manufacturing would be more important because of its key role in the growth and economic fluctuations of an area.

The area statistics in *Census of Manufacturers* permitted the calculation of diversification indices on the basis of the major groups after an estimation of employment in a few of the smaller major groups. Lack of employment data for all major groups in nonmanufacturing prevented the calculation of a similar index for total employment. Because disclosure rules led to significant gaps in the detailed industry statistics for manufacturing, the Federal Reserve Bank of Atlanta contracted with the Bureau of the Census to calculate the indices of diversification of manufacturing employment for 1963 on the basis of unpublished data. The Business and Defense Services Administration published similar indices for 1947 and 1963.

The greater detail of the industry figures provides a somewhat better index of diversification than does the measure based upon major groups. For example, in comparing two areas with a concentration of jobs in a major group like transportation equipment, fluctuations in the area would likely be greater if all the jobs were in one industry, say automobiles, rather than several, like aircraft, railroad equipment, automobiles, and ship building. Each of these industries is affected by different sources of demand.

The size of the index depends upon the number of sectors into which the total is divided and the definition of the area. The more sectors in the total, the smaller the index. The manufacturing diversification index based on 20 major groups is larger than the corresponding index based on 142 industries for each state, as can be seen in the table. Generally, the smaller the definition of the area, the smaller the diversification index. A state will usually have a lower diversification index than the group of states of which it is a part, because different specialties in various states offset each other. However, there are exceptions: In the diversification of total employment, Georgia had a higher index than the six District states in 1963.

DIVERSIFICATION INDICES FOR SIXTH DISTRICT STATES' EMPLOYMENT

| State | | Employn Division | | | nufactu Iajor Gi | • | | | _ | |
|------------------------|------|---------------------|------|------|---------------------|------|-------|---------------|-------|--|
| | 1947 | 1 9 54 | 1963 | 1947 | 1954 | 1963 | 1947b | 1954b | 1963c | |
| Alabama | 83.8 | 88.5 | 91.3 | 58.1 | 63.4 | 68.2 | 45.8 | 51.5 | 58.3 | |
| Florida | 78.7 | 81.3 | 85.9 | 50.1 | 55.9 | 72.3 | 35.8 | 43.8 | 57.8 | |
| Georgia | 88.2 | 92.9 | 94.3 | 55.5 | 59.2 | 62.8 | 46.1 | 5 2. 4 | 56.6 | |
| Louisiana | 85.8 | 86.3 | 85.4 | 50.0 | 55.6 | 59.1 | 39.4 | 43.0 | 46.4 | |
| Mississippi | 55.5 | 63.9 | 76.6 | 54.8 | 57.7 | 65.4 | 34.8 | 41.3 | 47.8 | |
| Tennessee | 83.2 | 88.7 | 89.1 | 73.5 | 72.1 | 72.7 | 56.1 | 57.8 | 63.4 | |
| Six States Mean, 48 | 84.3 | 89.2 | 91.8 | 68.5 | 70.0 | 74.8 | | - | | |
| States | | | | | _ | — | 45.3 | 48.3 | | |

a-Nonfarm payroll plus agricultural employment.

—U.S. Department of Commerce, Office of Area Development, "Diversification of Manufacturing Employment for State and Metropolitan Areas" (Washington: U.S. Government Printing Office) June 1960.

c-Calculations by Bureau of the Census.

Diversification of Total Employment

The structure of the region's total employment and manufacturing jobs have become more nearly like the nation's since 1947. The most pronounced change in total employment structure occurred in Mississippi. In 1947, an estimated 63.6 percent of Mississippi jobs were in agriculture, compared with 19.1 in the nation, for a difference of 43.5 percentage points. By 1963, the percentage point difference in agriculture dropped to 23.3 and caused nearly all of the rise in Mississippi's diversification index for total employment.

Louisiana, on the other hand, registered practically no change in her diversification index. Although the percentage point deviation between the Pelican state and the U. S. dropped 5.4 points for agriculture, the deviations increased in mining, manufacturing, government, and trade. The growth of the petroleum-gas industry increased the state's specialization in mining, and the decline in manufacturing jobs in Louisiana widened the gap in this sector.

Florida, with the best employment growth during the period, had only a moderate gain in her total diversification index because the deviation between U. S. and Florida percentage of employment in agriculture was the smallest of District states in 1947. Consequently, opportunity to reduce the deviation in subsequent years was less.

Manufacturing Diversification

Tennessee had the most diversified structure of manufacturing jobs on the basis of major groups and industries. Florida, with a 140-percent growth in manufacturing jobs, recorded the largest increase in diversification of manufacturing. In 1947 and 1954,

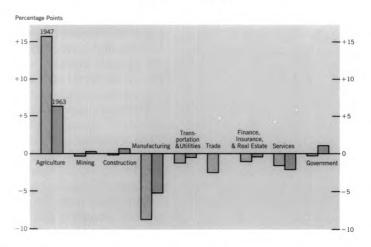


Chart I: Differences in Sixth District and U.S. Percentages of Total Employment in Major Divisions

The distribution of employment in the District became more like that in the nation between 1947 and 1963.

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Alabama, Georgia, and Tennessee had more diversified manufacturing industries than the average state, according to the Census. Although the mean diversification index for all states has not been calculated for 1963, the large increase in Florida's index makes it likely that four of the six District states were more diversified in manufacturing industries than the average state.

The shifts in manufacturing jobs in the six states have generally been toward higher wage industries. The deviation between workers in the textile and lumber groups in the six states and the nation between 1947 and 1963 decreased 6 and 8 percentage points, respectively. The District's percent of employment in the high-wage transportation equipment and machinery groups became more like the nation's. In the textile group the percentage point deviation decreased, even though the District's textile jobs declined only about half as fast as the nation's. In the two machinery groups, jobs grew in the District about ten times as fast as in the nation.

Diversification Arguments

With the aid of these measures, we can better assess some of the arguments for diversification. For areas with marked seasonal and/or cyclical variation in economic activity, it is claimed the introduction of new industries would level out these fluctuations. In the District states, for example, seasonal patterns in the chemical and textile industries complement each other (see Chart II). If the area were small enough, the transfer of workers might be possible. However, the two sectors would have to require workers with the same skills for the transfer to be feasible. But even if the transfer were limited, fluctuations in the total level of activity would be reduced. Less volatile fluctuations in total activity would level out fluctuations in sales of local merchants and the demand for public and private services. However, an area specializing in sectors with stable seasonal and cyclical patterns might decrease its stability by diversifying.

Diversification can also lead to better utilization of the labor force insofar as diversification results in demands for different types of characteristics. For example, some industries, such as coal mining, primarily employ men, while other industries, like the apparel industry, employ a large proportion of women. Employees differ in age, education, and certain physical characteristics among some industries.

Diversification proponents also see variation in the economy as insurance against possible declines in a major existing sector. This reason accords with the proverbial maxim of "not carrying all one's eggs in the same basket." The more evenly jobs are spread among different sectors, the less chance the area will be uprooted by the decline of one sector. A deterioration of a sector locally could stem from a decline nationally; exhaustion of local natural resources; and changes in techniques of production, transportation rates, service costs; or the allocation of public contracts. In areas which specialize in industries with slow growth, diversification would likely mean attracting faster growing industries, for slower growing ones seldom expand to new areas since this in-

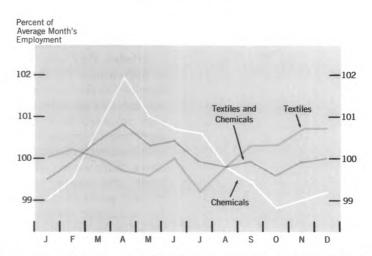


Chart II: Seasonal Activity of Sample Industries Sixth District States

The presence of industries with different seasonal patterns can level out fluctuations in an area. The patterns for seasonal activity for the chemical and textile industries are both greater than would be the pattern of the two industries combined. Balancing the seasonal pattern with other industries might reduce the fluctuations further.

volves building new plants. However, diversification could also increase when total employment declines because of a cutback in a region's major industry. The movement of textile firms to the South increased diversification in some parts of New England because of the loss of these jobs.

In areas with a high percentage of jobs in agriculture, such as the Southeast, diversification of total employment and industrialization are closely related. Even if the new plants have lower payscales than the average manufacturing plant in the nation, the wages will likely be higher than those received by most farm workers. And if rapid mechanization is occurring in agriculture, attracting these plants is necessary to replace the jobs eliminated by new farm machinery. Although the new plants may not increase the diversification of manufacturing jobs, they will increase the diversification of total employment. The economic structure probably improves because of the lessened dependence upon agriculture—a sector with large seasonal and cyclical fluctuations.

An additional argument involves the desire for social balance. There is a tendency for the dominating sectors of the economy to determine the area's outlook. On the other hand, as an area becomes increasingly specialized, it becomes more dependent upon other areas for items not produced locally. Consequently, its ties with other regions become stronger.

Measures and Arguments

In 1947, the District states with the highest diversification of manufacturing industries also had the smallest seasonal fluctuations. Between 1947 and 1963, the marked change in the diversification of Florida's economy brought a sharp reduction in the state's seasonal fluctuations. An increase in seasonal fluctuations accompanied the decrease in the diversification of Tennessee's major manufacturing groups. In Mississippi, on the other hand, the increase in manufacturing diversification brought little change in the seasonal fluctuations in manufacturing jobs.

Between 1947 and 1963, Florida had the most stable growth in manufacturing (measured by the coefficient of variation—the standard deviation divided by the mean—of the annual percentage changes in manufacturing jobs) and the largest change in both manufacturing diversification indices. Louisiana had the most volatile manufacturing growth and the smallest change in manufacturing diversification. However, among the other District states, there was no relation between the two variables. More than likely, the greater specialization of the Pelican state in the cyclical petro-chemicals and lumber accounts for the contrast. No significant correlation was found between the coefficient of variation and manufacturing indices for the six states.

No consistent relation was evident between diversification and job growth or between changes in these factors. Similarly, no correlation existed between one of the major creators of new manufacturing jobs, plant and equipment spending, and diversification. The key was not diversification, per se, but the particular industries involved.

Growth in Louisiana was spurred by large investments in the petro-chemical industry, and the state became more specialized in this area. Florida, on the other hand, gained many of its investments in industries which were previously of less importance to the Sunshine state. Consequently, her diversification index increased sharply. For the 1947-1963 period, Tennessee ranked third in employment gains, but was the only District state with a lower diversification index for manufacturing groups in 1963 than in 1947.

Georgia had the highest diversification index for total jobs and the largest increase in per capita personal income between 1947 and 1963. Mississippi, which ranked second in per capita personal income growth, registered the largest change in total diversification. Apparently, both the level and the change in diversification affect income growth.

Diversification in the Future

In our comparisons, some relationships between the level and changes in diversification with other economic variables were found. However, no strong correlation existed for the group of six states. Does diversification not matter? Such a conclusion would not be warranted. First, it is more difficult to find significant relationships with only a few observations. More importantly, diversification can influence a number of economic goals, depending upon the initial economic structure of the area and the way in which the increased diversification is achieved. In Mississippi, increased diversification figured prominently in rising per capita income, as many workers moved from the farm to the factory. In Florida, diversification helped to reduce seasonal fluctuations and maintain a stable growth pattern. In Louisiana, on the other hand, the special locational advantages of large oil deposits made specialization, not diversification, the key to economic growth. Economic structure, not diversification per se, should guide the development plans of an area. Diversification for areas with a concentration of low-wage industries carries a higher priority than for areas specializing in high paying industries. The South's attempts to reach national per capita income levels call for a further narrowing of the differences between the distribution of jobs in the nation and the South.

C. RICHARD LONG

APPENDIX

The **Standard Industrial Classification Manual** is the guide for classifying establishments by type of economic activity. The **Manual** divides the economy into nine major divisions. Each division in turn is divided into major groups, which are broken down into industries. The names of the nine divisions are given in Chart I. Below are listed the 21 major groups in manufacturing. One diversification index was based upon the "divisions," one on manufacturing "major groups," and one on manufacturing "major groups, has only 20 groups because statistics on ordnance and miscel-laneous manufacturing were combined.

MAJOR GROUPS IN MANUFACTURING

| Ordnance and Accessories | Petroleum and Coal Products |
|------------------------------------|-----------------------------------|
| Food and Kindred Products | Rubber and Plastics Products |
| Tobacco Manufactures | Leather and Leather Products |
| Textile Mill Products | Stone, Clay, and Glass Products |
| Apparel and other Textile Products | Primary Metal Industries |
| Lumber and Wood Products | Fabricated Metal Products |
| Furniture and Fixtures | Machinery, except Electrical |
| Paper and Allied Products | Electrical Equipment and Supplies |
| Printing and Publishing | Transportation Equipment |
| Chemicals and Allied Products | Instruments and Related Products |
| Miscellaneous Manuf | acturing Industries |

Steps used in computing the index:

(1) Compute the percentage of total employment in each sector of the U. S. economy.

(2) Compute the percentage of the total area's employment in each sector.

(3) For each sector, subtract the percent of employment in the sector in the U. S. (step 1) from the percent of area employment in the sector (step 2).

(4) Since the sum of the positive difference equals the total of the negative deviations, either set of differences may be used.

(5) The sum of the absolute values of the positive or negative differences is called the specialization index.

(6) To obtain the diversification index, subtract the specialization index from 100.

ECONOMIC CHARACTERISTICS

of the Sixth Federal Reserve District

This statistical booklet has been revised to include 1964 and 1965 farming data. Copies are available upon request to the Research Department, Federal Reserve Bank of Atlanta, Atlanta, Georgia 30303.

Sixth District Statistics

Seasonally Adjusted

(All data are indexes, 1957-59 = 100, unless indicated otherwise.)

| | | Month 967) | One Month Ago | Two Months Ago | One Year Ago |
|--|---|---|--|---|---|
| SIXTH DISTRICT | | | | | |
| INCOME AND SPENDING | | | | | |
| Personal Income, (Mil. \$ Ann. Rate) | Mar. | 56.812 | 56.340r | 54,846r | 52,428 |
| Manufacturing Payrolls | . Mar. | 195 | 195 | 196 | 181 |
| | . Mar. | 139 | 137 | 131 | 150 |
| Crops | . Mar. | 137 | 125 | 116 | 158 |
| Livestock | . Mar. | 145 | 146 | 148 | 152 |
| Instalment Credit at Banks, *(Mil. \$) | | 1.0 | | | |
| | . Apr. | 261 265 | 295r 254 | 289 258 | 287 249 |
| PRODUCTION AND EMPLOYMENT | | | | | |
| | . Apr. | 135 | 136 | 136 | 131 |
| Manufacturing | . Apr. | 135 | 136 | 136 | 132 |
| Apparel | . Mar. | 165 | 167r | 169r | 162 |
| Chemicals | . Mar. | 130r | 130r | 131r | 126 |
| Fabricated Metals | . Mar. | 153r | 153r | 152r | 148 |
| Food | . Mar. | 116 | 115 | 114r | 1111 |
| Lbr., Wood Prod., Furn. & Fix | . Mar. | 105 | 106 | 107r | 106 |
| Paper | . Mar. | 117 | 116r | 115r | 111 |
| Primary Metals | . Mar. | 125r | 127r | 128r | 124 |
| Textiles | . Mar. | 105r | 105r | 106r | 104 |
| Transportation Equipment | . Mar. | 174 | 177 | 177r | 170 |
| Nonmanufacturing | . Apr. | 136 | 136 | 136 | 130 |
| Construction | . Mar. | 130r | 133r | 131r | 139 |
| Farm Employment | . Apr. | 61 | 68 | 70 | 66 |
| Unemployment Rate (Percent of Work Force) | | 3.7 | 3.5r | 3.4 | 3.3 |
| Insured Unemployment | | | | | |
| (Percent of Cov. Emp.) | . Mar. | 2.1 | 2.1 | 2.2 | 1.8 |
| Avg. Weekly Hrs. in Mfg., (Hrs.) | . Mar. | 40.9 | 40.9 | 41.4 | 41.8 |
| Construction Contracts* | . Apr. | 154 | 140 | 142 | 152 |
| Residential | . Apr. | 138 | 159 | 121 | 164 |
| All Other | . Apr. | 168 | 124 | 159 | 143 |
| Electric Power Production** | . Mar. | 143 | 141 | 146 | 134 |
| Cotton Consumption** | . Apr. | 120 | 118 | 117 | 119 |
| FINANCE AND BANKING Member Bank Loans* | | | | | |
| | | | | | |
| | Anr | 248 | 247 | 245 | 220 |
| All Banks | . Apr. | 248 | 247 | 245 | |
| All Banks | . Apr. . May | 248 228 | 247 222 | 245 223 | |
| All Banks | . May | | | | 210 |
| All Banks | . May | 228 | 222 | 223 | 210 174 |
| All Banks | . May | 228 187 | 222 185 | 223 183 | 210 174 159 |
| All Banks | . May . Apr. . May | 228 187 173 | 222 185 170 | 223 183 167 | 210 174 159 |
| All Banks | . May . Apr. . May | 228 187 173 | 222 185 170 | 223 183 167 | 210 174 159 |
| All Banks Leading Cities | . May . Apr. . May . Apr. | 228 187 173 178 | 222 185 170 193 | 223 183 167 190 | 210 174 159 190 |
| All Banks Leading Cities | . May . Apr. . May . Apr. | 228 187 173 178 | 222 185 170 | 223 183 167 | 210 174 159 190 |
| All Banks Leading Cities | . May . Apr. . May . Apr. . Mar. . Apr. | 228 187 173 178 7,455 172 | 222 185 170 193 7,411r | 223 183 167 190 7,259r | 210 174 159 190 7,009 168 |
| All Banks Leading Cities | . May . Apr. . May . Apr. . Mar. . Apr. | 228 187 173 178 7,455 172 | 222 185 170 193 7,411r 175 | 223 183 167 190 7,259r 177 | 210 174 159 190 7,009 168 |
| All Banks Leading Cities | . May . Apr. . May . Apr. . Mar. . Mar. . Mar. | 228 187 173 178 7,455 172 146 | 222 185 170 193 7,411r 175 148 | 223 183 167 190 7,259r 177 140 | 210 174 159 190 7,009 168 153 |
| All Banks Leading Cities | . May . Apr. . May . Apr. . Mar. . Mar. . Mar. | 228 187 173 178 7,455 172 146 | 222 185 170 193 7,411r 175 148 125 | 223 183 167 190 7,259r 177 140 125 | 210 174 159 190 7,009 168 153 |
| All Banks | . May . Apr. . May . Apr. . Mar. . Apr. . Mar. . Apr. . Apr. | 228 187 173 178 7,455 172 146 124 121 | 222 185 170 193 7,411r 175 148 125 122 | 223 183 167 190 7,259r 177 140 125 124 | 210 174 159 190 7,009 168 153 123 123 |
| All Banks Leading Cities | May Apr. May Apr. Mar. Apr. Mar. Apr. Apr. Apr. Apr. Apr. Apr. Apr. | 228 187 173 178 7,455 172 146 124 121 125 | 222 185 170 193 7,411r 175 148 125 122 126 | 223 183 167 190 7,259r 177 140 125 124 126 | 210 174 159 190 7,009 168 153 123 122 123 |
| All Banks Leading Cities | May Apr. May Apr. Mar. Apr. Mar. Apr. Apr. Apr. Apr. Apr. Apr. Apr. Apr. | 228 187 173 178 7,455 172 146 124 121 125 120 | 222 185 170 193 7,411r 175 148 125 122 126 121r | 223 183 167 190 7,259r 177 140 125 124 126 125 | 210 174 159 190 7,009 168 153 123 122 123 128 |
| All Banks Leading Cities | May Apr. May Apr. Mar. Apr. Mar. Apr. Apr. Apr. Apr. Apr. Apr. Apr. | 228 187 173 178 7,455 172 146 124 121 125 | 222 185 170 193 7,411r 175 148 125 122 126 | 223 183 167 190 7,259r 177 140 125 124 126 | 210 174 159 190 7,009 168 153 123 122 123 128 |
| All Banks Leading Cities | May Apr. May Apr. Apr. Mar. Apr. | 228 187 173 178 7,455 172 146 124 121 125 120 68 | 222 185 170 193 7,411r 175 148 125 122 126 121r 75 | 223 183 167 190 7,259r 177 140 125 124 126 125 80 | 210 174 159 190 7,009 168 153 123 123 123 128 72 |
| All Banks Leading Cities | May Apr. May. Apr. Mar. Apr. Mar. Apr. | 228 187 173 178 7,455 172 146 124 125 120 68 4.3 | 222 185 170 193 7,411r 175 148 125 122 126 121r 75 4.1 | 223 183 167 190 7,259r 177 140 125 124 125 80 3.9 | 210 174 159 190 7,009 168 153 122 123 128 72 4.0 |
| All Banks Leading Cities | May Apr. May. Apr. Mar. Apr. Mar. Apr. | 228 187 173 178 7,455 172 146 124 125 120 68 4.3 | 222 185 170 193 7,411r 175 148 125 122 126 121r 75 | 223 183 167 190 7,259r 177 140 125 124 126 125 80 | 210 174 159 190 7,009 168 153 122 123 128 72 4.0 |
| All Banks Leading Cities | . May Apr. May Apr. May . Apr. . Mar. . Apr. . Apr. . Apr. . Apr. . Apr. . Apr. . Apr. . Apr. . Apr. | 228 187 173 178 7,455 172 146 124 125 120 68 4.3 40.5 | 222 185 170 193 7,411r 175 148 125 122 126 121r 75 4.1 | 223 183 167 190 7,259r 177 140 125 124 125 80 3.9 | 210 174 159 190 7,009 168 153 122 123 128 72 4.0 42.0 |
| All Banks Leading Cities | May Apr. May Apr. Apr. Mar. Apr. | 228 187 173 178 7,455 172 146 124 121 125 120 68 4.3 40.5 232 | 222 185 170 193 7,411r 175 148 125 122 126 121r 75 4.1 41.2 234 | 223 183 167 190 7,259r 177 140 125 124 126 125 80 3.9 41.1 231 | 2100 1744 1555 1900 7,005 1685 1533 1223 1233 1222 4.00 42.00 2133 |
| All Banks Leading Cities | May Apr. May. Apr. Mar. Apr. | 228 187 173 178 7,455 172 146 124 121 125 120 68 4.3 40.5 232 184 | 222 185 170 193 7,411r 175 148 125 122 126 121r 75 4.1 41.2 234 184 | 223 183 167 190 7,259r 177 140 125 124 126 125 80 3.9 41.1 231 181 | 210 174 159 190 168 153 122 123 122 123 128 122 123 128 128 128 128 128 128 128 128 128 128 |
| All Banks | May Apr. May. Apr. Mar. Apr. | 228 187 173 178 7,455 172 146 124 121 125 120 68 4.3 40.5 232 | 222 185 170 193 7,411r 175 148 125 122 126 121r 75 4.1 41.2 234 | 223 183 167 190 7,259r 177 140 125 124 126 125 80 3.9 41.1 231 | 210 174 159 190 168 153 122 123 122 123 128 122 123 128 128 128 128 128 128 128 128 128 128 |
| All Banks Leading Cities | May Apr. May. Apr. Mar. Apr. | 228 187 173 178 7,455 172 146 124 121 125 120 68 4.3 40.5 232 184 | 222 185 170 193 7,411r 175 148 125 122 126 121r 75 4.1 41.2 234 184 | 223 183 167 190 7,259r 177 140 125 124 126 125 80 3.9 41.1 231 181 | 210 174 159 190 166 153 122 123 122 123 122 123 122 123 122 123 122 123 122 123 122 123 122 123 122 123 122 123 124 124 124 124 124 125 190 |
| All Banks Leading Cities | May Apr. May. Apr. Mar. Apr. | 228 187 173 178 7,455 172 146 124 121 125 120 68 4.3 40.5 232 184 | 222 185 170 193 7,411r 175 148 125 122 126 121r 75 4.1 41.2 234 184 | 223 183 167 190 7,259r 177 140 125 124 126 125 80 3.9 41.1 231 181 | 210 174 159 190 168 153 122 123 122 123 128 122 123 128 128 128 128 128 128 128 128 128 128 |
| All Banks | May Apr. May. Apr. Mar. Apr. | 228 187 173 178 7,455 172 146 124 121 125 120 68 4.3 40.5 232 184 171 | 222 185 170 193 7,411r 175 148 125 122 126 121r 75 4.1 41.2 234 183 | 223 183 167 190 7,259r 177 140 125 124 126 125 80 3.9 41.1 231 181 186 | 210 174 159 190 168 153 122 123 128 72 4.0 42.0 42.0 213 173 192 |
| All Banks Leading Cities | May Apr. May. Apr. Mar. Apr. | 228 187 173 178 7,455 172 146 124 125 120 68 4.3 40.5 232 184 171 | 222 185 170 193 7,411r 175 148 125 122 126 121r 75 4.1 41.2 234 184 183 16,084r 241 | 223 183 167 190 7,259r 177 140 125 124 126 125 80 3.9 41.1 231 181 186 15,698r 235 | 210 174 155 190 7,009 168 153 122 123 122 72 4.0 42.0 213 173 192 15,066 206 |
| All Banks | May Apr. May. Apr. Mar. Apr. | 228 187 173 178 7,455 172 146 124 125 120 68 4.3 40.5 232 184 171 | 222 185 170 193 7,411r 175 148 125 122 126 121r 75 4.1 41.2 234 183 16,084r | 223 183 167 190 7,259r 177 140 125 124 126 125 80 3.9 41.1 231 181 186 15,698r | 210 174 159 190 168 153 123 122 123 128 72 4.0 42.0 42.0 213 173 192 |
| All Banks Leading Cities | May Apr. May. Apr. Mar. | 228 187 173 178 7,455 172 146 124 121 125 120 68 4.3 40.5 232 184 171 | 222 185 170 193 7,411r 175 148 125 122 126 121r 75 4.1 41.2 234 184 183 16,084r 241 126 | 223 183 167 190 7,259r 177 140 125 124 126 125 80 3.9 41.1 231 181 186 15,698r 235 116 | 210 174 159 190 168 153 123 122 123 128 72 4.0. 42.0 42.0 42.0 213 173 192 15,064 206 161 |
| All Banks Leading Cities | May Apr. May. Apr. Mar. Apr. | 228 187 173 178 7,455 172 146 124 121 125 120 68 4.3 40.5 232 184 171 16,390 239 141 | 222 185 170 193 7,411r 175 148 125 122 126 121r 75 4.1 41.2 234 184 183 16,084r 241 | 223 183 167 190 7,259r 177 140 125 124 126 125 80 3.9 41.1 231 181 186 15,698r 235 | 230 210 174 159 190 168 153 122 123 122 123 122 123 122 123 122 123 122 123 123 |

| | | | Month 67) | One Month Ago | Two Months Ago | On Yea Age |
|---|---------------------------------------|--|---|--|---|--|
| Nonmanufacturing | | Apr. | 147 | 146 | 145 | 14 |
| Construction | | Apr. | 111 | 110 | 111 | 10 |
| Farm Employment | | Apr. | 83 | 88 | 96 | 9 |
| Unemployment Rate | | | | | | |
| (Percent of Work Force) | • • • | | 2.6 | 2.6 42.4r | 2.7 | 2. 42. |
| Avg. Weekly Hrs. in Mfg., (Hrs.) | • • • | . Apr. | 42.8 | 42.41 | 41.6 | 42. |
| INANCE AND BANKING | | | | | | |
| Member Bank Loans | | Apr. | 256 | 256 | 252 | 23 |
| Member Bank Deposits | | Apr. | 194 | 189 | 184 | 17 |
| Bank Debits** | | Apr. | 172 | 185 | 184 | 18 |
| | | | | | | |
| SEORGIA | | | | | | |
| NCOME AND SPENDING | | | | | | |
| Personal Income, (Mil. \$ Ann. I | Rate) | . Mar. | 10,923 | 10,883r | 10,649 | 10,15 |
| Manufacturing Payrolls | | | 191 | 194r | 195 | 18 |
| Farm Cash Receipts | | | 135 | 137 | 141 | 15 |
| PODUCTION AND FUEL OWNER | | | | | | |
| PRODUCTION AND EMPLOYMENT | | 1.1 | - and | T (all | 1.1.1 | |
| Nonfarm Employment | | . Apr. | 134 | 134 | 134 | 13 |
| Manufacturing | | . Apr. | 129 | 129 | 129 | 12 |
| Nonmanufacturing | | . Apr. | 136 | 137 | 137 | 13 |
| Construction | | . Apr. | 132 | 133 | 132 | 14 |
| Farm Employment Unemployment Rate | • • • | . Apr. | 51 | 55 | 59 | 5 |
| | | . Apr. | 3.3 | 3.4 | 3.2 | 3 |
| Avg. Weekly Hrs. in Mfg., (Hrs.) | | | 40.1 | 40.4 | 40.6 | 41 |
| | | | | | | |
| FINANCE AND BANKING | | | | | | |
| Member Bank Loans | | . Apr. | 258 | 258 | 257 | 24 |
| Member Bank Deposits | | . Apr. | 206 | 204 | 204 | 19 |
| Bank Debits** | ••• | . Apr. | 186 | 215 | 207 | 20 |
| LOUISIANA | | | | | | |
| INCOME AND SPENDING | | | | | | |
| Personal Income, (Mil. \$ Ann. | Rate) | . Mar. | 8,553 | 8,566r | 8,312 | 7,77 |
| Manufacturing Payrolls | | . Apr. | 175 | 177 | 178 | 16 |
| Farm Cash Receipts | | . Mar. | 138 | 147 | 133 | 13 |
| PRODUCTION AND EMPLOYMENT | | | | | | |
| | | 4 | 127 | 127 | 128 | 12 |
| | | . Apr. . Apr. | 12/ | 127 | 128 | 11 |
| Nonmanufacturing | | . Apr. | 121 | 121 | 120 | 13 |
| Construction | | . Apr. | 154 | 150 | 155 | 13 |
| Farm Employment | | . Apr. | 58 | 60 | 64 | |
| Unemployment Rate | | | | | | |
| | | . Apr. | 4.5 | 4.1r | | 4 |
| Avg. Weekly Hrs. in Mfg., (Hrs.) | ••• | . Apr. | 41.8 | 42.5r | 42.6 | 42 |
| FINANCE AND BANKING | | | | | | |
| Member Bank Loans* | | . Apr. | 222 | 220 | 221 | 20 |
| Member Bank Deposits* | | . Apr. | 158 | 158 | 156 | 15 |
| Bank Debits*/** | • • | . Apr. | 156 | 163 | 161 | 16 |
| | | | | | | |
| MISSISSIPPI | | | | | | |
| MISSISSIPPI | | | | | | |
| INCOME AND SPENDING | | | 1 | | 4,123r | |
| INCOME AND SPENDING Personal Income, (Mil. \$ Ann. | | | | 4,362r | | |
| INCOME AND SPENDING Personal Income, (Mil. \$ Ann. Manufacturing Payrolls | | . Apr. | 212 | 211 | 212 | |
| INCOME AND SPENDING Personal Income, (Mil. \$ Ann. | | . Apr. | 212 | | | |
| INCOME AND SPENDING Personal Income, (Mil. \$ Ann. Manufacturing Payrolls | :: | . Apr. | 212 | 211 | 212 | |
| INCOME AND SPENDING Personal Income, (Mil. \$ Ann. Manufacturing Payrolls Farm Cash Receipts PRODUCTION AND EMPLOYMENT | :: | . Apr. . Mar. | 212 144 | 211 145 | 212 140 | 1 |
| INCOME AND SPENDING Personal Income, (Mil. \$ Ann. Manufacturing Payrolls Farm Cash Receipts PRODUCTION AND EMPLOYMENT Nonfarm Employment | :: | . Apr. . Mar. | 212 144 138 | 211 145 139 | 212 140 139 | 1 |
| INCOME AND SPENDING Personal Income, (Mil. \$ Ann. Manufacturing Payrolls Farm Cash Receipts PRODUCTION AND EMPLOYMENT Nonfarm Employment Manufacturing | :: :: | . Apr. . Mar. . Apr. . Apr. | 212 144 | 211 145 139 146 | 212 140 139 148 | 18 13 14 |
| INCOME AND SPENDING Personal Income, (Mil. \$ Ann. Manufacturing Payrolls Farm Cash Receipts PRODUCTION AND EMPLOYMENT Nonfarm Employment Manufacturing Nonmanufacturing | :: | . Apr. . Mar. . Apr. . Apr. . Apr. | 212 144 138 145 | 211 145 139 146 136 | 212 140 139 148 136 | 11 12 14 13 |
| INCOME AND SPENDING Personal Income, (Mil. \$ Ann. Manufacturing Payrolls Farm Cash Receipts PRODUCTION AND EMPLOYMENT Nonfarm Employment Manufacturing Nonmanufacturing | :: | . Apr. . Mar. . Apr. . Apr. | 212 144 138 145 134 | 211 145 139 146 | 212 140 139 148 | 1: 1: 1: 1: 1: |
| INCOME AND SPENDING Personal Income, (Mil. \$ Ann. Manufacturing Payrolls Farm Cash Receipts PRODUCTION AND EMPLOYMENT Nonfarm Employment Manufacturing Construction Farm Employment Rate | :: | Apr. Mar. Apr. Apr. Apr. Apr. | 212 144 138 145 134 136 | 211 145 139 146 136 147 | 212 140 139 148 136 152 | 1: 1: 1: 1: 1: |
| INCOME AND SPENDING Personal Income, (Mil. \$ Ann. Manufacturing Payrolls Farm Cash Receipts PRODUCTION AND EMPLOYMENT Nonfarm Employment Monmanufacturing Construction Farm Employment Unemployment Rate (Percent of Work Force) | | . Apr. . Mar. . Apr. . Apr. . Apr. . Apr. . Apr. . Apr. | 212 144 138 145 134 136 51 4.6 | 211 145 139 146 136 147 61 4.2r | 212 140 139 148 136 152 62 4.1 | 1: 1: 1: 1: 1: 1: 3 |
| INCOME AND SPENDING Personal Income, (Mil. \$ Ann. Manufacturing Payrolls Farm Cash Receipts PRODUCTION AND EMPLOYMENT Nonfarm Employment Manufacturing Construction Farm Employment Unemployment Rate | | . Apr. . Mar. . Apr. . Apr. . Apr. . Apr. . Apr. . Apr. | 212 144 138 145 134 136 51 | 211 145 139 146 136 147 61 | 212 140 139 148 136 152 62 | 1: 14 13 14 13 14 13 14 13 |
| INCOME AND SPENDING Personal Income, (Mil. \$ Ann. Manufacturing Payrolls Farm Cash Receipts PRODUCTION AND EMPLOYMENT Nonfarm Employment Monmanufacturing Construction Farm Employment Unemployment Rate (Percent of Work Force) | | . Apr. . Mar. . Apr. . Apr. . Apr. . Apr. . Apr. . Apr. | 212 144 138 145 134 136 51 4.6 | 211 145 139 146 136 147 61 4.2r | 212 140 139 148 136 152 62 4.1 | 1: 1: 1: 1: 1: 3 |
| INCOME AND SPENDING Personal Income, (Mil. \$ Ann. Manufacturing Payrolls Farm Cash Receipts PRODUCTION AND EMPLOYMENT Nonfarm Employment Manufacturing Nonmanufacturing Construction Farm Employment Rate (Percent of Work Force) Avg. Weekly Hrs. in Mfg., (Hrs.) | · · · · · · · · · · · · · · · · · · · | . Apr. . Mar. . Apr. . Apr. . Apr. . Apr. . Apr. . Apr. | 212 144 138 145 134 136 51 4.6 | 211 145 139 146 136 147 61 4.2r | 212 140 139 148 136 152 62 4.1 | 1: 14 1: 14 1: 14 14 |
| INCOME AND SPENDING Personal Income, (Mil. \$ Ann. Manufacturing Payrolls Farm Cash Receipts PRODUCTION AND EMPLOYMENT Nonfarm Employment Manufacturing Nonmanufacturing Construction Farm Employment Rate (Percent of Work Force) Avg. Weekly Hrs. in Mfg., (Hrs.) FINANCE AND BANKING | · · · · · · · · · · · · · · · · · · · | Apr. Mar. Apr. Apr. Apr. Apr. Apr. Apr. Apr. Apr. | 212 144 138 145 134 136 51 4.6 40.2 | 211 145 139 146 136 147 61 4.2r 40.6 | 212 140 139 148 136 152 62 4.1 40.7 | 20 15 14 14 13 14 5 3 41 27 20 |

MONTHLY REVIEW

http://fraser.stlouisfed.org/ Federal Reserve Bank of St. Louis

| L | atest Month (1967) | One Month Ago | Two Months Ago | One Year Ago | La | test Month (1967) | One Month Ago | Two Months Ago | One Year Ago |
|--|-----------------------|---------------------|----------------------|--------------------|-------------------------------------|----------------------|---------------------|----------------------|--------------------|
| TENNESSEE | | | | | Nonmanufacturing Apr | r. 133 | 134 | 135 | 128 |
| | | | | | Construction Ma | r. 160 | 169 | 169 | 159 |
| INCOME AND SPENDING | | | | | Farm Employment Apr | r. 65 | 77 | 70 | 73 |
| Personal Income, (Mil. \$ Ann. Rate) . M | ar. 9,103 | 9,034r | 8,805r | 8,367 | Unemployment Rate | | | | |
| Manufacturing Payrolls M | | 191 | 193 | 178 | (Percent of Work Force) Apr | . 4.0 | 3.3 | 3.2 | 3.0 |
| Farm Cash Receipts M | | 127 | 120 | 136 | Avg. Weekly Hrs. in Mfg., (Hrs.) Ma | r. 40.0 | 39.9 | 40.6 | 41.5 |
| | | | | | FINANCE AND BANKING | | | | |
| PRODUCTION AND EMPLOYMENT | | | | | Member Bank Loans* Apr | . 243 | 240 | 238 | 228 |
| Nonfarm Employment A | or. 136 | 138 | 139 | 132 | Member Bank Deposits* Apr | | 173 | 173 | 171 |
| Manufacturing A | pr. 143 | 145 | 146 | 140 | Bank Debits*/** Apr | | 215 | 208 | 202 |
| | | | | | | | | | |

*For Sixth District area only. Other totals for entire six states. **Daily average basis. r-Revised.

Sources: Personal income estimated by this Bank; nonfarm, mfg. and nonmfg. emp., mfg. payrolls and hours, and unemp., U. S. Dept. of Labor and cooperating state agencies; cotton consumption, U. S. Bureau of Census; construction contracts, F. W. Dodge Corp.; petrol. prod., U. S. Bureau of Mines; industrial use of elec. power, Fed. Power Comm.; farm cash receipts and farm emp., U.S.D.A. Other indexes based on data collected by this Bank. All indexes calculated by this Bank.

Debits to Demand Deposit Accounts

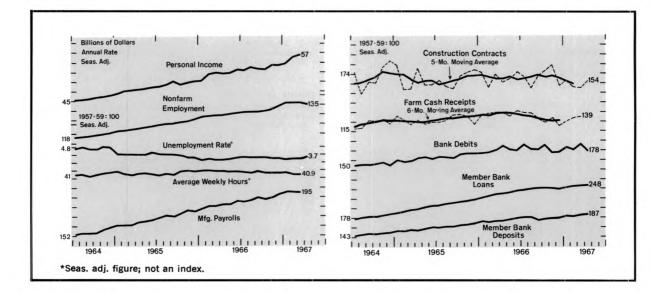
| | | | | Perc | cent Ch | nange | | |
|----------------------|--------------|--------------|--------------|--------------|---------|--------------|-----------------------|--------------|
| | | | | | Year-to | | | |
| | | | Ma | ar. 196 | | mos. 1967 | | |
| | Mar. 1967 | Feb. 1967 | Mar. 1966 | Feb. 1967 | | from 1966 | | Mar. 1967 |
| STANDARD METROPOLIT | AN | | | | | | Lakeland | 124,74 |
| STATISTICAL AREAST | | | | | | | Monroe County | 38,70 |
| Birmingham | 1,513,815 | 1,318,176 | 1,426,694r | +15 | +6 | +11 | Ocala | 56,492 |
| Gadsden | 59,370 | 54,090 | 63,519r | | -7 | -6 | St. Augustine | 19,615 |
| Huntsville | 186,993 | 159,435 | 183,590r | | +2 | +3 | St. Petersburg | 361,940 |
| Mobile | 470,016 | 418,819 | 467,271r | | +1 | +4 | Sarasota | 101,679 |
| Montgomery | 306,223 | 272,077 | 292,771r | | +5 | +5 | Tampa | 692,594 |
| Tuscaloosa | 98,340 | 88,077 | 89,107 | | +10 | +7 | Winter Haven | 62,688 |
| 1030010030 | 50,540 | 00,077 | 05,107 | | 110 | ., | Athens | 73,710 |
| Ft. Lauderdale- | | | | | | | Brunswick | 40,49 |
| Hollywood | 671,413 | 598,690 | 656,524r | +12 | +2 | +7 | Dalton | 78,41 |
| Jacksonville | 1,644,258 | 1,404,259 | 1,555,490r | +17 | +6 | +6 | Elberton | 18,552 |
| Miami | 2,417,751 | 2,028,491r | 2,230,660 | +19 | +8 | +9 | Gainesville | 71,082 |
| Orlando | 555,654 | 484,221 | 572,492r | +15 | -3 | +3 | Griffin | 31,530 |
| Pensacola | 197,844 | 179,245r | 185,627r | +10 | +7 | +11 | LaGrange | 23,694 |
| Tallahassee | 128,230 | 138,815 | 120,393 | -8 | +7 | +15 | Newnan | 21,43 |
| Tampa-St. Petersburg | 1,380,371 | 1,212,802r | 1,305,988r | +14 | +6 | +7 | Rome | 71,564 |
| W. Palm Beach | 446,687 | 415,839 | 449,095r | +7 | -1 | +3 | Valdosta | 54,47 |
| Albany | 86,005 | 77,550 | 100,756 | +11 | -17 | -4 | Abbeville | 11,659 |
| Atlanta | 4,745,483 | 3,928,464 | 4,381,111r | +21 | +8 | +9 | Alexandria | 139,08 |
| Augusta | 287,852 | 257,794 | 249,524r | +12 | +15 | +15 | Bunkie | 6,784 |
| Columbus | 216,282 | 190,153 | 206,708r | +14 | +5 | +10 | Hammond | 38,17 |
| Macon | 254,615 | 211,107 | 224,301r | +21 | +14 | +10 | New Iberia | 33,58 |
| Savannah | 282,970 | 235,022 | 256,085r | +20 | +10 | +9 | Plaquemine | 10,634 |
| | | | | | | | Thibodaux | 22,87 |
| Baton Rouge | 549,869 | 494,962 | 552,953r | | -1 | +7 | | |
| Lafayette | 112,850 | 111,002 | 119,309 | +2 | -5 | +3 | Biloxi-Gulfport | 108,223 |
| Lake Charles | 141,788 | 131,780 | 121,942 | +8 | +16 | +21 | Hattiesburg | 55,42 |
| New Orleans | 2,473,333 | 2,035,376 | 2,571,256r | +22 | -4 | +3 | Laurel | 33,96 |
| Jackson | 619,416 | 589,355 | 584,205r | +5 | +6 | +10 | Meridian | 64,13 |
| | | | | | | | Natchez | 39,74 |
| Chattanooga | 632,411 | 509,581 | 577,089r | | +10 | +9 | Pascagoula- | |
| Knoxville | 451,693 | 411,410 | 426,879r | | +6 | +10 | Moss Point | 54,014 |
| Nashville | 1,627,292 | 1,444,260 | 1,430,014r | +13 | +14 | +16 | Vicksburg | 40,82 |
| | | | | | | | Yazoo City | 26,44 |
| OTHER CENTERS | | | | | | | Bristol | 65,384 |
| Anniston | 63,473 | 54,590 | 61,953 | +16 | +2 | +4 | Johnson City | 77,289 |
| Dothan | 62,285 | 53,610 | 57,279 | +16 | +9 | +13 | Kingsport | 170,164 |
| Selma | 44,288 | 40,071 | 40,974 | +11 | +8 | +8 | | |
| Bartow | 38,273 | 36,793 | 38,518 | +4 | -1 | +8 | SIXTH DISTRICT, Total | 30,720,039 |
| Bradenton | 75,188 | 61,052 | 57,987 | +23 | +30 | +27 | Alabamat | 3,849,40 |
| Brevard County | 217,750 | 192,396 | 224,956 | +13 | -3 | +1 | Floridat | 9,619,88 |
| Daytona Beach | 96,394 | 73,901 | 80,088 | +30 | +20 | +7 | Georgia‡ | |
| Ft. Myers- | 50,394 | 75,501 | 00,000 | 130 | 120 | ., | Louisiana*† | 4,086,17 |
| N. Ft. Myers | 82,466 | 70,836 | 78,011 | +16 | +6 | +6 | Mississippi*† | 1,385,98 |
| Gainesville | 82,400 | 74,508 | 78,011 | +16 | +11 | +9 | Tennessee*† | 4,088,50 |
| | | | , | | | | | |

| | | | | | | mos |
|---------------------------|--------------|--------------|--------------|--------------|--------------|-----|
| | | | | r. 1967 | | |
| | Mar. 1967 | Feb. 1967 | Mar. 1966 | Feb. 1967 | Mar. 1966 | |
| Lakeland | 124,741 | 116,403 | 128,309 | +7 | -3 | + |
| Monroe County | 38,706 | 32,058 | 38,202 | +21 | +1 | +4 |
| Ocala | 56,492 | 57,079 | 59,540 | -1 | -5 | ++ |
| St. Augustine | 19,615 | 17,370 | 21,308 | +13 | -8 | + |
| St. Petersburg | 361,940 | 302,149r | 316,121 | +20 | +14 | + |
| Sarasota | 101,679 | 92,631 | 111,596 | +10 | -9 | - |
| Tampa | 692,594 | 612,060 | 684,113 | +13 | +1 | + |
| Winter Haven | 62,688 | 59,228 | 68,684r | +6 | -9 | + |
| Athens | 73,710 | 66,700 | 70,140 | +11 | +5 | +1 |
| Brunswick | 40,492 | 34,725 | 38,616 | +17 | +5 | + |
| Dalton | 78,412 | 71,669 | 89,949 | +9 | -13 | - |
| Elberton | 18,552 | 11,949 | 13,688 | +55 | +36 | +1 |
| Gainesville | 71,082 | 65,660 | 56,443 | +8 | +26 | +1 |
| Griffin | 31,530 | 29,157 | 31,449 | +8 | +0 | + |
| LaGrange | 23,694 | 20,280 | 25,159 | +17 | -6 | - |
| Newnan | 21,438 | 22,466 | 25,965 | -5 | -17 | + |
| Rome | 71,564 | 63,650 | 71,196 | +12 | +1 | + |
| Valdosta | 54,475 | 47,419 | 50,823 | +15 | +7 | +1 |
| Abbeville | 11,659 | 10,015 | 11,111 | +16 | +5 | + |
| Alexandria | 139,084 | 132,604 | 112,659 | +5 | +23 | +2 |
| Bunkie | 6,784 | 5,727 | 5,462 | +18 | +24 | +2 |
| Hammond | 38,171 | 34,608 | 33,121 | +10 | +15 | +2 |
| New Iberia | 33,581 | 30,843 | 34,953 | +9 | -4 | - |
| Plaquemine | 10,634 | 11,634 | 9,776 | -8 | +9 | +2 |
| Thibodaux | 22,879 | 19,508 | 22,005 | +17 | +4 | + |
| Biloxi-Gulfport | 108,221 | 90,445 | 89,228 | +20 | +21 | +1 |
| Hattiesburg | 55,421 | 49,393 | 52,534 | +12 | +5 | + |
| Laurel | 33,963 | 31,546 | 35,915 | +8 | -5 | - |
| Meridian | 64,132 | 58,616 | 61,385 | +9 | +4 | + |
| Natchez | 39,747 | 33,495 | 35,443 | +19 | +12 | +1 |
| Pascagoula- Moss Point | 54.014 | 50,177 | 51,031 | +8 | +6 | +1 |
| Vicksburg | 40,828 | 38,442 | 39,342 | +6 | +4 | +1 |
| Yazoo City | 26,447 | 23,809 | 24,185 | +11 | +9 | +1 |
| Bristol | 65,384 | 55,345 | 68,765 | +18 | -5 | + |
| Johnson City | 77,289 | 68,611 | 71,520 | +13 | +8 | +1 |
| Kingsport | 170,164 | 135,172 | 162,646 | +26 | +5 | +1 |
| XTH DISTRICT, Total 3 | 0,720,039 | 26,750,194r | 29,127,453r | +15 | +5 | + |
| Alabama‡ | 3,849,406 | 3,501,560 | 3,726,846r | +10 | +3 | + |
| Floridat | 9,619,880 | 8,337,548r | 9,097,087 | +15 | +6 | + |
| | 7,690,087 | 6,542,131 | 7,131,866r | +18 | +8 | + |
| | 4,086,178 | 3,558,006 | 4,127,658r | | -1 | + |
| | 1,385,980 | 1,265,822 | 1,275,543r | | +9 | +1 |
| | 4.088.508 | 3,545,127 | 3,768,453r | | +8 | +1 |

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Percent Change

District Business Conditions



Activity in various sectors of the District's economy continues hesitant. In recent months, little or no growth in nonfarm jobs and business loans reflected the strain of inventory adjustments nationally. Retail spending was marked by caution. Lower cash incomes to farmers, mixed conditions in construction activity, and rising defense contracts contributed to the generally uneven picture.

In April, nonfarm jobs hovered around a plateau, as manufacturers cut the workweek and the number of jobs in adjusting to current demand. While the sensitive insured unemployment rate has increased in recent months, the total unemployment rate has remained stable. Nevertheless, defense contracts awarded to District firms jumped 30 percent in the first quarter.

Although passbook savings showed the first significant expansion in many months during May, certificates of deposit continue to provide most of the deposit growth at District banks. Rates on smaller denomination CD's have been lowered in some areas. Loan expansion was relatively weak at city banks, indicating that the April pick-up in business loans was short-lived. However, many large District banks are optimistic about loan demand this summer.

According to preliminary estimates, total retail sales declined from March to April. A sharp upturn in automobile sales in March, which boosted total retail sales, apparently did not persist through April. Instalment lending at commercial banks declined primarily because of a drop in automobile loans. Loans to purchase other retail consumer goods also dropped. Planting of all major row crops except soybeans nears completion. However, cold and rainy weather in several regions has caused the cotton crop to deteriorate, forcing the replanting of some acreages. General rains have relieved drought conditions in South Georgia and parts of Florida. Through the first quarter, cash receipts from farm marketings were 8 percent less than in the same period a year earlier. Lower prices account for most of the decrease in crop and livestock sales. All District states except Tennessee shared in the decline.

Total construction contracts in the District gained somewhat in April, but not enough to reverse the downtrend prevalent since third quarter 1966. Residential contract volume was off considerably from March but remained well above that of February. Recent weakness in nonresidential contract volume was reversed, however, and this index showed a sharp rebound from the depressed level of March. Rising yields on competitive investments are being reflected in higher discounts on FHA-VA mortgages.

NOTE: Data on which statements are based have been adjusted whenever possible to eliminate seasonal influences.