

Expanded Edition

AGRICULTURE & FORESTRY

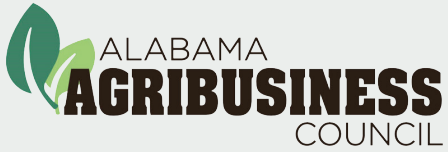
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An Economic Contribution Study



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Letter from the Commissioner



I am honored to present Agriculture & Forestry Grow Alabama: An Economic Contribution Study. This in-depth report demonstrates the profound influence agriculture and these allied industries have on the prosperity and sustainability of Alabama’s economy. As Commissioner of the Alabama Department of Agriculture and Industries, I am proud to highlight vital contributions of our farmers, foresters, landowners, and industry professionals. Their daily work adds to the economic and environmental well-being of our state.

In the following pages, you will find a comprehensive analysis of the economic benefits driven by Alabama’s agricultural and forestry industries. These sectors contribute \$77.3 billion annually to the state’s economy, support 10% of Alabama jobs, and help shape the economy and well-being of Alabama’s rural and urban communities.

Alabama’s diverse agricultural output includes everything from poultry, cattle, and catfish to peanuts, cotton, and soybeans. Additional powerhouses include greenhouse, nursery, and floriculture production, plus fruits, vegetables, hay, corn, wheat, and small grains. Many of these commodities help feed and clothe people in our state and across the globe. Others add beauty to our environment while sustaining our economy. Many times, they are the engines for sustainability in rural Alabama.

Similarly, the state’s abundant forests are essential to both the state’s economy and a healthy environment. Visitors and Alabamians alike are reminded of our natural resources’ dominance when traveling across the state, two-thirds of which is covered in forestland. Through responsible forest management, Alabama remains a leader in timber production while promoting sustainability and protecting our natural resources for future generations.

I encourage you to review Agriculture & Forestry Grow Alabama: An Economic Contribution Study. You’ll gain a greater understanding of our impactful industries. With plans to release biennial updates, this study also tells of a promising future of these industries and rural communities. With your help, I look forward to continuing our work, providing for our communities and growing Alabama’s economy.

Rick Pate, Alabama Department of Agriculture and Industries Commissioner

In 2022, the economic contribution of Alabama’s food, fiber, forestry, and green industries was \$77.3 billion and 273,271 jobs, which accounted for 10% of Alabama’s workforce.

These values represent the total economic activity of the agricultural and forestry sectors including production of goods and services, inputs to production, and expenditures from household income.

\$30.6 BILLION	Timber Production & Processing 91,372 JOBS	
\$19.0 BILLION	Poultry & Egg Production & Processing 47,205 JOBS	
\$812.4 MILLION	Soybean, Corn & Wheat Production 4,736 JOBS	
\$703.6 MILLION	Beef Production 10,063 JOBS	
\$566.9 MILLION	Cotton Production 4,797 JOBS	
\$510.6 MILLION	Greenhouse, Nursery & Floriculture Production 4,360 JOBS	
\$238.0 MILLION	Peanut Production 1,940 JOBS	
\$161.3 MILLION	Catfish Production 676 JOBS	



Highlights

Alabama’s agricultural and forestry industries significantly contribute to the state’s economy. There are many ways to define the sectors that make up these industries. Based on 2022 data, this report focuses on the production, input, service, and processing/manufacturing components of the food, fiber, forestry, and green industries.

- For every \$1.00 of agricultural and forestry output, \$1.40 of activity is generated in the local economy. This is the original \$1.00 of output plus an additional \$0.40.
- The total output contribution of the agricultural and forestry industries translates to \$15,131 per capita.
- The agricultural and forestry industries generate 5 jobs per \$1 million in direct sales.
- Employment contributions represent 10% of the total state employment.
- An additional 0.64 jobs are created for each direct job in the agricultural and forestry industries.
- For every \$1 of income in the agricultural and forestry industries, an additional \$0.66 of income is generated in other industries in the local economy.

The results of this study illustrate the importance of the agricultural and forestry sectors to the Alabama economy. There are additional benefits not accounted for in this analysis, including further economic activity from the distribution and retailing of related agricultural and forestry products and social benefits that enhance the quality of life of Alabama residents.



Total economic contribution of \$77.3 billion.

Total employment of 273,271 jobs.

Total labor income, including employee wages, fringe benefits, and proprietor income, is \$15.4 billion.



Investments in Agricultural and Forestry Conservation Practices

Agricultural and forestry producers in Alabama continuously work to preserve the natural resources their land provides. The Alabama Soil and Water Conservation Districts, together with the US Department of Agriculture Natural Resource Conservation Service (NRCS), has programs to help provide the technical and administrative assistance necessary for producers to adopt practices that may otherwise not be implemented. In 2022, producers utilized more than \$44 million through NRCS programs in the form of Environmental Quality Incentives Program (EQIP) contracts, Conservation Stewardship Program contracts, and other conservation programs such as installation of riparian buffers of irrigation systems.

This contribution study does not directly measure the effects of investment in conservation practices, but it does include the impacts of increased production outputs that may result from adopting these practices, where applicable. Measuring the impact of investment in conservation practices would require the additional assessment of sectors necessary for the capital investment, such as related materials and income for technical assistance.

Introduction

This study focuses on determining the contribution of the agricultural and forestry industries to the Alabama economy. This combined industry plays a crucial role in providing food, fiber, forest, and green industry products and services, contributing to the Alabama economy through production, employment, and income. According to the 2022 Census of Agriculture, Alabama farms have approximately 8.6 million acres of land, including 2.9 million in cropland and 1.9 million acres of pastureland. Forestland covers 69% of the total land mass in the state.

Some key facts about the 2022 agricultural and forestry production sector include the following:

- With 1.2 billion head, Alabama had the second largest number of broilers produced in the United States.
- A total of 1.3 million head of cattle were in inventory, including 672,000 beef cows and 580,000 calves.
- There were 1.8 million tons of hay produced, the second largest total of immediate neighboring states to Alabama.
- Alabama has diverse row crop production with more than 1.4 million planted acres, including 435,000 acres of cotton; 360,000 acres of soybeans; 300,000 acres of corn; 180,000 acres of wheat; and 165,000 acres of peanuts.
- Alabama was the third largest producer of cotton and peanuts in the United States, with 833,000 480-pound bales of cotton and 554.2 million pounds of peanuts.
- Production of timber products totaled 1.2 billion cubic feet.

While production is at the core of this study, essential manufacturing of inputs and processing of outputs exist in Alabama because of the production activities on the land. Thus, this study focuses on the supply chain through the processing and manufacturing of agricultural and forestry production activities.

The following pages provide a breakdown of each category included in the report and the value of direct output or the percentage of the direct category output produced by that industry.



1.2
BILLION
Broilers
Produced

23.1
MILLION
ACRES OF
Forestland

833
THOUSAND
BALES OF
Cotton
Harvested

434.6
MILLION
Eggs
Produced

1.8
MILLION
TONS OF
Hay
Produced

57.4
MILLION
BUSHELS OF
Corn,
Soybeans
& Wheat

1.3
MILLION
HEAD OF
Cattle in
Inventory

554.2
MILLION
POUNDS OF
Peanuts
Harvested

1.2
BILLION
CUBIC FEET OF
Forest
Production



Alabama’s Agricultural and Forestry Industries

Agricultural and forestry operations generate a significant amount of direct economic activity in Alabama. In 2022, this was a combined total of \$55.3 billion. This section highlights eight categories that make up the Alabama agricultural and forestry industries.

Agricultural Production Inputs and Processing

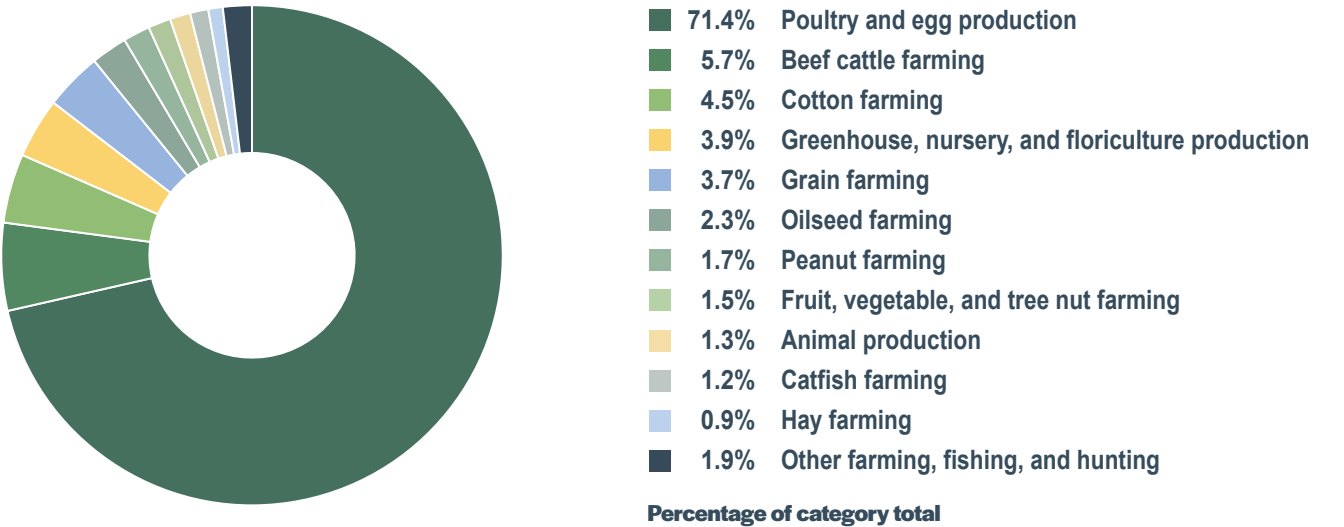
Agricultural Production

The value of agricultural commodities totals \$8.85 billion in direct output. This includes \$6.94 billion in livestock and poultry production and \$1.16 billion in crop production. The major sectors of agricultural production include the following:

Poultry and eggs	\$6.32 billion
Cattle	\$501.5 million
Cotton	\$396 million
Oilseed (including soybeans and peanuts)	\$360.4 million
Greenhouse, nursery, and floriculture	\$343.8 million
Grain farming	\$329.2 million
Catfish	\$104 million

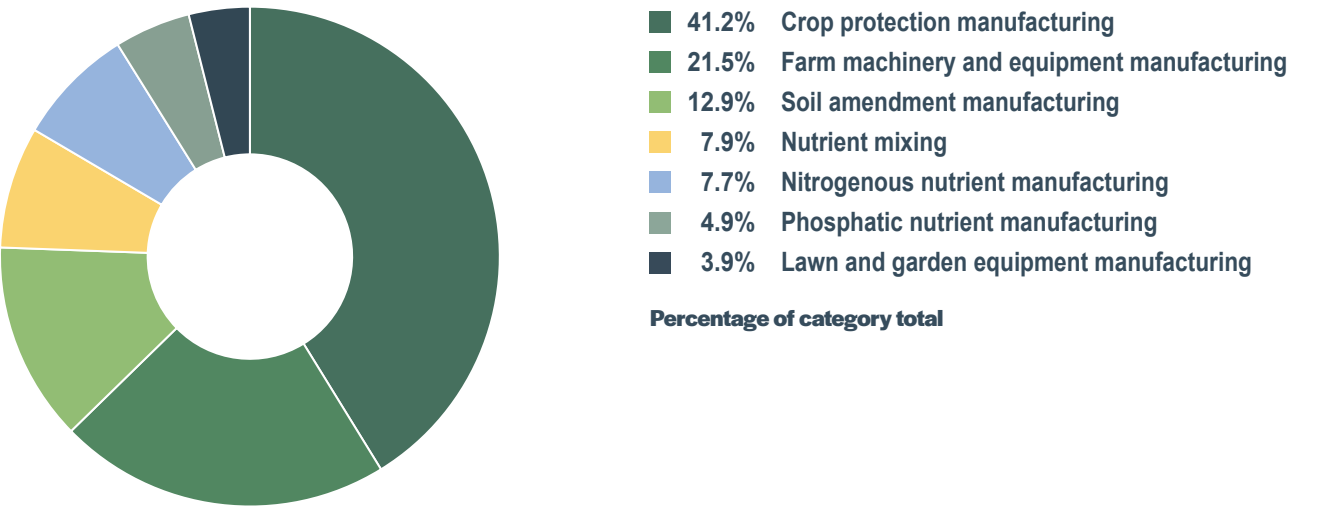
Value of Agricultural Production

Almost three-quarters of the \$8.85 billion in direct output from agricultural production is generated by the poultry and egg sector, which for Alabama is primarily broiler chicken production. Beef production is a distant second, followed by cotton, green industries, and grain farming, which is primarily corn production.



Value of Agricultural Inputs

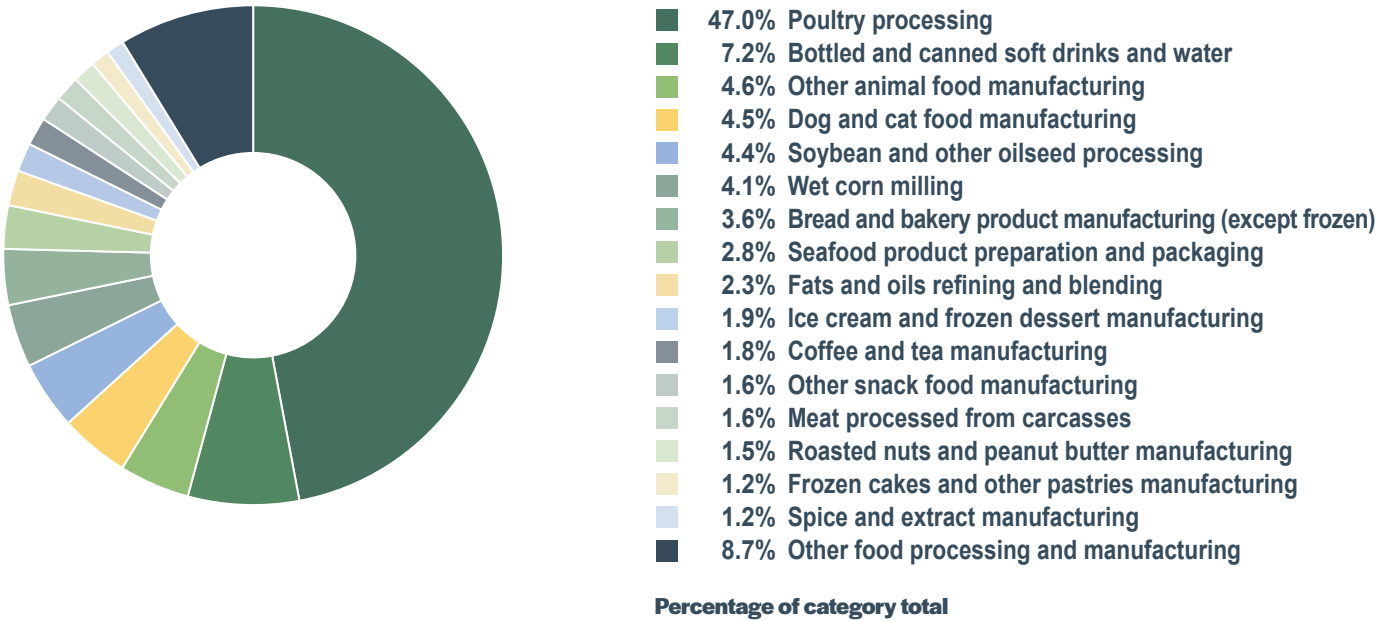
Manufacturing of agricultural inputs totals \$2.73 billion and is led by crop protection, which is almost twice as large as the second category—farm machinery. The next four categories could be considered all related to nutrient management, and if combined, would surpass machinery for the number 2 spot.



Total value: \$8.85 billion + \$2.73 billion = \$11.6 billion

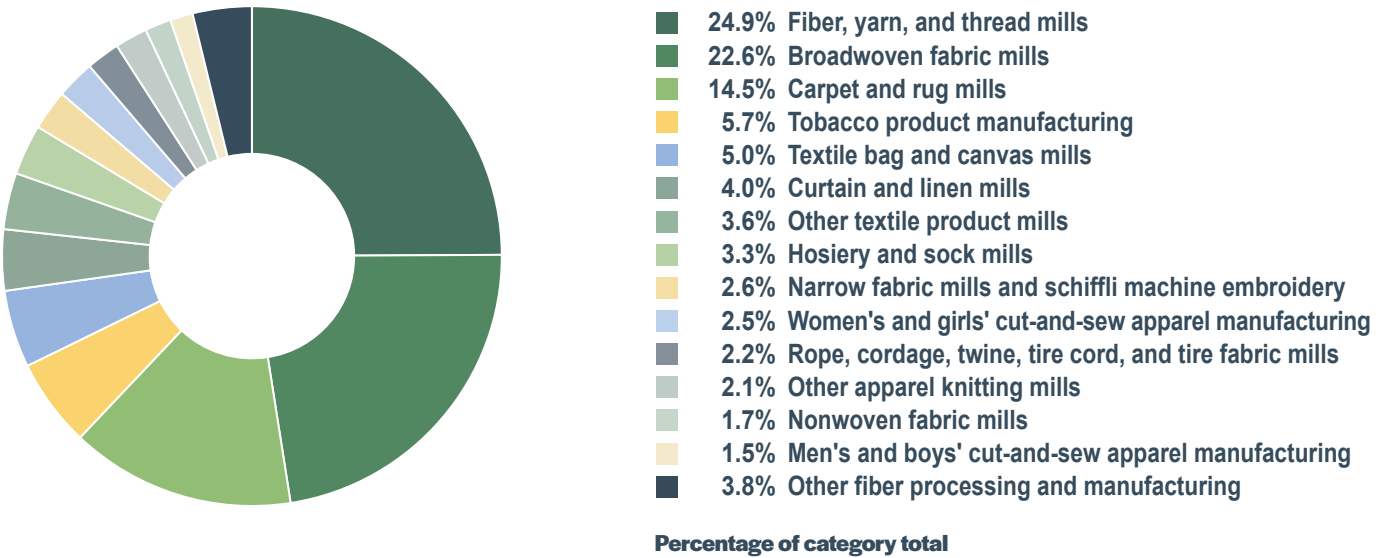
Value of Food Processing and Manufacturing

Food processing is the second largest category of industry contribution with \$17.74 billion but, like production, is dominated by poultry processing in Alabama with almost half the total value. Alabama also has large beverage and animal food manufacturing sectors as well as grain and oilseed processing.



Value of Fiber Processing and Manufacturing

Alabama’s cotton production is backed up by strong fiber processing sectors, especially yarn and thread and broadwoven fabrics. The direct output for this sector totals \$3.01 billion.



Total value: \$17.74 billion + \$3.01 billion = \$20.75 billion



Agricultural and Forestry Services

Two groups are included in agricultural and forestry services for this study. These groups are landscape and horticulture services and agricultural and forestry support activities. These services are reported in a single category because there is no method to separate agriculture and forestry.

Landscape and horticulture services make up the larger of the two service industries, totaling \$1.4 billion. Included are activities such as arborist services; tree pruning, tree removal, and shrub services; lawn care; landscape installation and maintenance; and turf installation. This represents a significant part of the green industry in Alabama.

Agricultural and forestry support activities are a combined industry, including service activities that assist with production and immediate post-harvest handling that are not always completed by the producer. For agriculture, this includes activities such as pollinating, crop protection and nutrient application, harvesting, drying, ginning, cleaning, and packaging. Forestry includes activities such as forest management, pest control, and valuation services. The total combined direct value of agricultural and forestry support activities is \$347.9 million.

Value of Forestry Processing and Manufacturing

Landscape and horticultural services	\$1.4 billion
Agricultural and forestry support activities	\$347.9 million

Total value: \$1.77 billion



Forestry Production Inputs and Processing

Forestry Production and Inputs

The direct output value of forestry is \$21.2 billion. Production activities include the following:

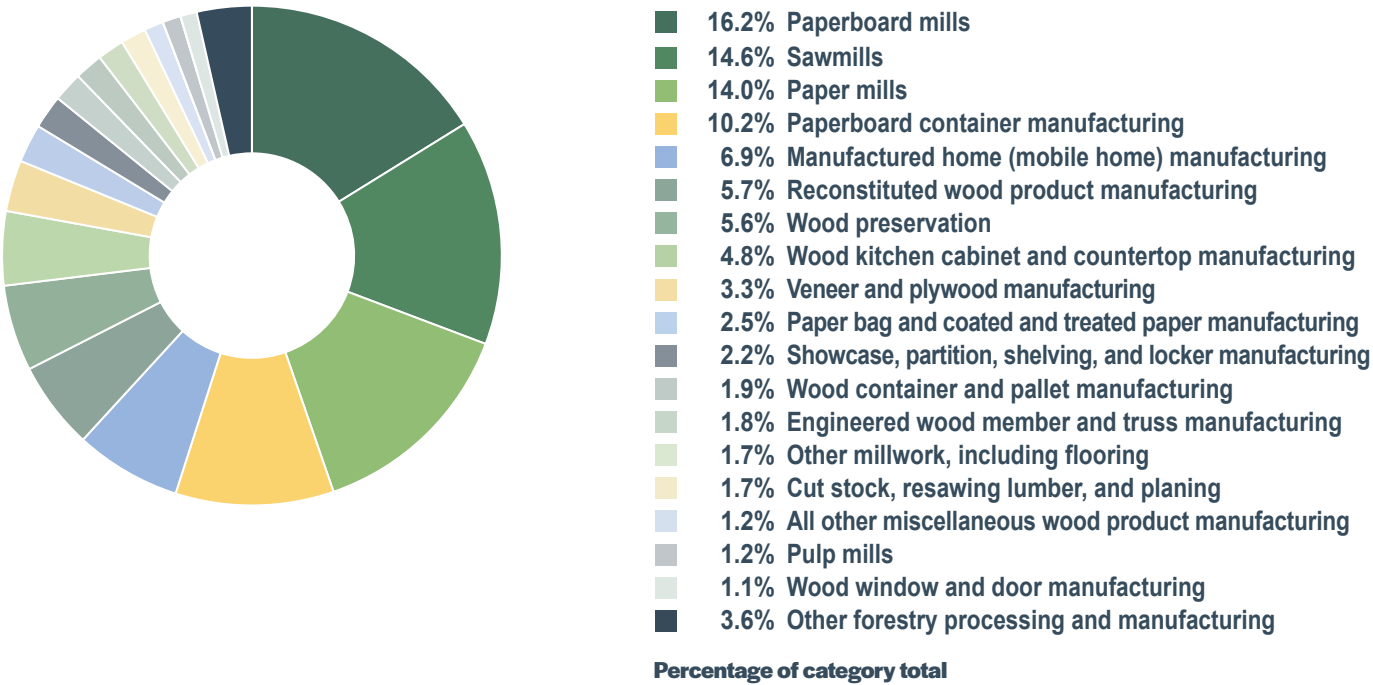
Commercial logging	\$604.1 million
Forestry production	\$69.1 million

Production of inputs to forestry in Alabama include the following:

Sawmill, woodworking, and paper machinery	\$131.7 million
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Value of Forestry Processing and Manufacturing

Forestry processing is the largest industry sector in the combined agricultural and forestry industries for Alabama with \$20.4 billion in direct output. Direct wood product processing and paperboard, paper, and sawmill manufacturing lead the category as the top four sectors with 55% of the total. The rest is scattered among various other wood product manufacturing.



Total value: \$0.13 billion + \$0.67 billion + \$20.4 billion = \$21.2 billion



Methods

Economic Model

This analysis uses IMPLAN to estimate the contribution of Alabama’s agricultural and forestry industries. IMPLAN is a regional economic analysis software package that estimates the effects of a specific economic activity within a specific geographic area. The software implements an input-output (I-O) and social accounting matrix (SAM) model to provide estimates of the connectedness in economic activity (IMPLAN 2024).

The IMPLAN modeling approach analyzes the inputs to production necessary to provide a specific product or service. Then, it quantifies the backward linkages from production to provide those goods and services. Multipliers are estimated to reflect changes in output and employment from the specific activity being modeled within the economy.

Direct effects represent the production value for a specific sector and are the basis for determining additional economic activity. IMPLAN estimates indirect and induced effects based on the level of production (direct effects) the researcher defines. **Indirect effects** represent the business-to-business purchases necessary to provide the raw materials needed to produce the economic activity specified by the direct effects. The **induced effects** are the household expenditures generated from employment income related to the specific production sector. Together, the direct, indirect, and induced effects represent the total economic contribution of the various agricultural and forestry industries in Alabama.

Data Sources

The data packaged in IMPLAN are collected from many different government entities. They include the US Department of Commerce, the Bureau of Economic Analysis, the US Bureau of Labor Statistics, the US Census Bureau, and the US Department of Agriculture (USDA) as well as other sources. The reliability of this data was verified through stakeholder discussions and a review of additional materials from those same government entities. Based on this review, adjustments to the data provided by IMPLAN were made as necessary to reflect the additional information obtained for a particular sector and the general scope of this specific project.

Contribution Analysis Versus Impact Analysis

Two types of analyses are used to model economic activity—a contribution analysis and an impact analysis. These two approaches are sometimes discussed similarly, i.e., the impact of a specific activity within a geographic area. However, there are distinct differences in the modeling approach. Even when defined with the same sectors, there are differences in the outcomes that result from these two methodologies. One way to think about which study is more appropriate is the following:

An **impact analysis** is used to determine how a direct change in expenditure of a specific project will affect the local economy.

A **contribution analysis** provides evidence of how important a particular sector is to the existing economy.

This study is a contribution analysis as it looks at the included sectors’ existence and their effects on the total Alabama economy.



Choices of Geographic Scope and Sectors for Modeling

When defining an industry contribution study, there are two primary considerations. First, the geographic scope to be modeled must be determined. In this study, the state of Alabama is specified as the relevant economy. More local effects are also of interest. The USDA defines regional areas within the state as Agricultural Statistical Districts. Each group of counties in a region represents similar geography, climate, and cropping practices.

The second consideration is how broadly or narrowly to define the industries to be included. This can be thought about as how far down the supply chain the analysis goes. Would that economic activity exist in the state without the contribution of the agricultural and forestry industries? The approach used in this study focuses on the agricultural and forestry supply chain through the processing and manufacturing sectors. This is because of their dependence upon the state’s agricultural and forestry production activities. However, the effects of distribution activities such as wholesale operations, restaurants, and retailers are not modeled because these sectors do not strictly rely upon Alabama agricultural and forestry products for their existence. Specific sectors are identified based on the North American Industry Classification System (NAICS) codes. NAICS codes are used to group businesses based on their primary operation.





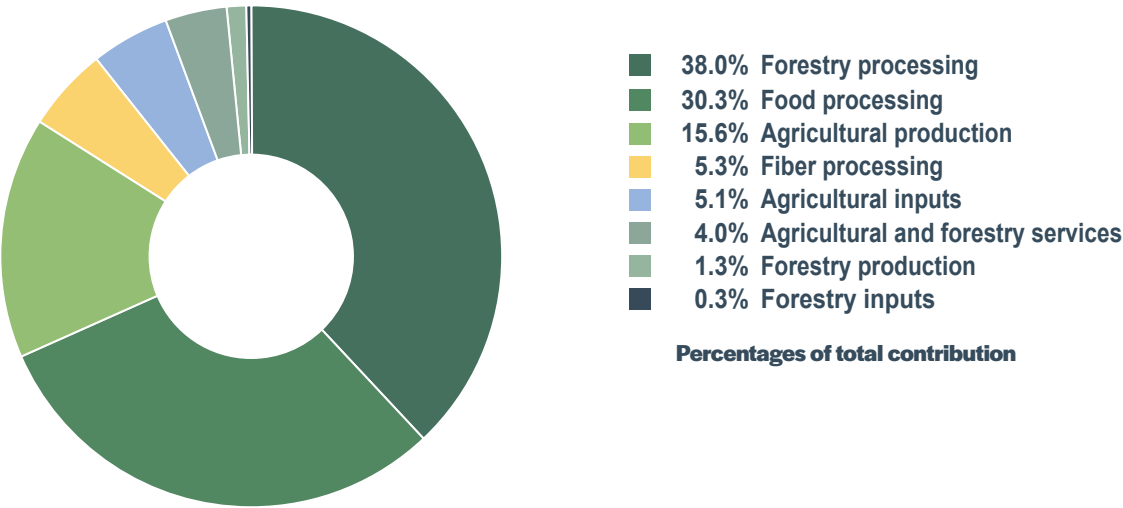
Results

The overall economic contribution of Alabama’s agricultural and forestry industries for 2022 is \$77.3 billion. This includes \$55.3 billion in direct output and \$22 billion in indirect and induced effects. The direct employment in the agricultural and forestry industries is 166,410, including business owners and full-time, part-time, and seasonal workers. Including the effects in indirect and induced employment (106,861 jobs), the total employment contribution is 273,271. Labor income, including employee wages, fringe benefits, and proprietor income, is \$15.4 billion.

The economic contribution is broken down into eight categories throughout the report. These include the agriculture-related categories: agricultural inputs, agricultural production, food processing, and fiber processing as well as the forestry-related categories: forestry inputs, forestry production, and forestry processing. A final category, agricultural and forestry services, includes input and support services for both agriculture and forestry.

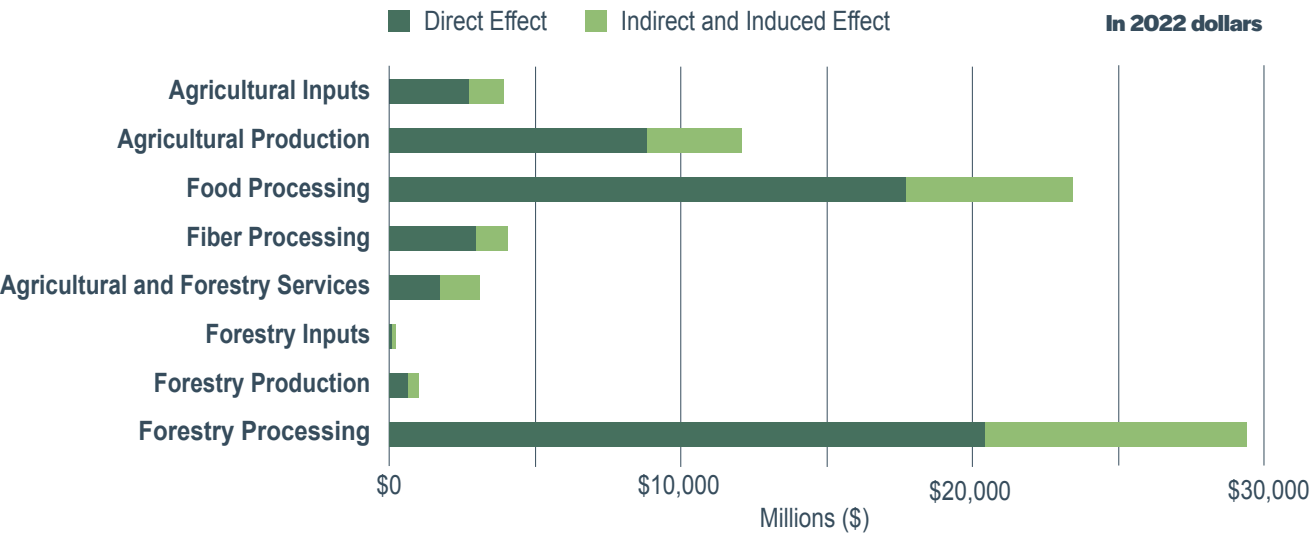
Share of Total Economic Contribution of Agricultural and Forestry Categories

One way to evaluate total economic contribution is to separate it into two major categories: food-and-fiber agriculture and forestry. Food-and-fiber agriculture makes up 56% of the total contribution, but the largest single sector is forestry processing at 38% of the total. However, these two cannot be completely separated, as 4% of the total contribution comprises service industries facilitating activity in both major categories.



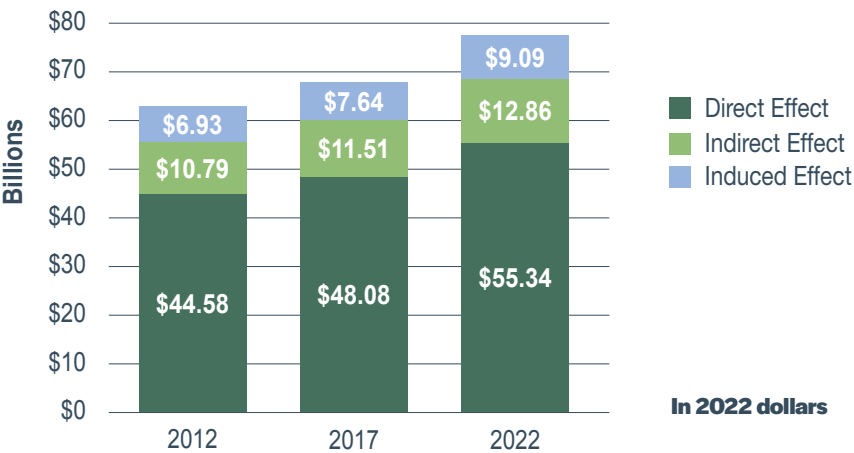
Components of the Total Economic Contribution

The agricultural and forestry services sector includes landscape and horticulture services, which could be considered a hybrid of production agriculture and forestry. This category also contains agricultural and forestry support activities, a bridge between the two major categories, helping facilitate both contributions.



Trends in the Economic Contribution of Alabama's Agricultural and Forestry Industries

The changes over time show that Alabama agriculture and forestry have been on an upward trajectory of growth over the last decade, holding constant for inflation. The induced effects of agriculture and forestry increased by 31% over 10 years. The direct effects increased by 24%, and the indirect effects increased by 19%.



Top 15 Industries Supported

The agricultural and forestry sector supports other industries by purchasing supplies and services (inputs) used for production (indirect effects). Other industries are also supported by household purchases as a result of income earned through the agricultural and forestry industries (induced effects).

Indirect Effects

A total output of \$12.9 billion is generated in the Alabama economy through the agricultural and forestry industries’ purchase of inputs for production, representing the indirect effects. More than \$7.5 billion is generated in the top 15 industries. Truck transportation, wholesalers of durable goods, and wholesalers of nondurable goods represent the top 3 industries providing inputs to agriculture and forestry. Some other industries provide agricultural lending (in monetary authorities and depository credit intermediation) and insurance for agricultural production (in insurance agencies, brokerages, and related activities).

Table 1. Top 15 Industries Supported Through Indirect Effects		
RANK	Industry Display	Indirect Effects (in \$1,000)
1	Truck transportation	\$1,397,969
2	Wholesale—Other durable goods merchant wholesalers	\$978,281
3	Wholesale—Other nondurable goods merchant wholesalers	\$947,922
4	Other real estate	\$618,017
5	Wholesale—Grocery and related product wholesalers	\$589,456
6	Electric power transmission and distribution	\$543,662
7	Management of companies and enterprises	\$413,799
8	Employment services	\$307,534
9	Petroleum refineries	\$298,566
10	Rail transportation	\$297,830
11	Monetary authorities and depository credit intermediation	\$279,003
12	Wholesale—Machinery, equipment, and supplies	\$238,220
13	Insurance agencies, brokerages, and related activities	\$229,109
14	Natural gas distribution	\$215,639
15	Other local government enterprises	\$190,943

In 2022 dollars



Induced Effects

A total output of \$9.1 billion is generated in the Alabama economy through household purchases from income earned through agricultural and forestry industries, representing the induced effects. More than \$4.6 billion in output is generated in the top 15 industries. Housing surpasses all other categories as the top industry supported by income earned in agriculture and forestry, followed by medical services. Some of the other industries include food-related retailers and restaurants.

Table 2. Top 15 Industries Supported Through Induced Effects		
RANK	Industry Display	Induced Effect (in \$1,000)
1	Owner-occupied dwellings	\$1,223,983
2	Offices of physicians	\$386,324
3	Hospitals	\$367,526
4	Other real estate	\$325,966
5	Limited-service restaurants	\$318,752
6	Monetary authorities and depository credit intermediation	\$315,767
7	Retail—Nonstore retailers	\$294,220
8	Full-service restaurants	\$249,643
9	Insurance carriers, except direct life	\$219,614
10	Retail—General merchandise stores	\$169,882
11	Electric power transmission and distribution	\$163,959
12	Other local government enterprises	\$157,210
13	Tenant-occupied housing	\$152,447
14	Insurance agencies, brokerages, and related activities	\$146,114
15	Retail—Food and beverage stores	\$131,954

In 2022 dollars

Employment

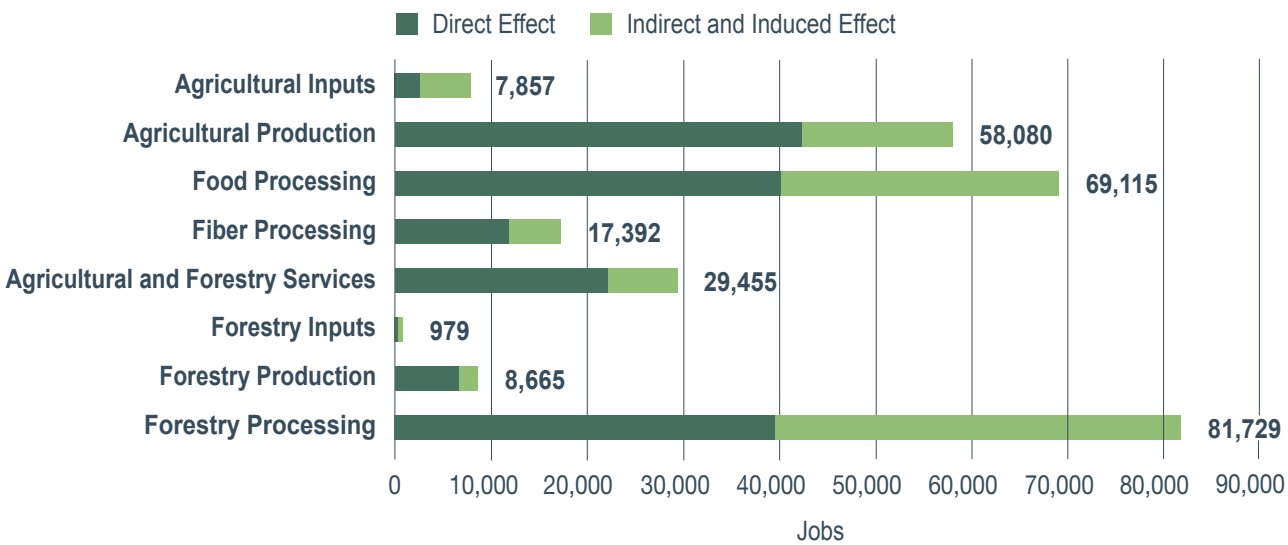
Interpreting Employment

For nonagricultural production sectors, employment is classified based on their NAICS classification, even if they produce in more than one sector. For agricultural production, employment is split between sectors in partial units based upon several assumptions, including the distribution of the value of output. For example, a cattle producer also grows cotton, corn, peanuts, and hay. This producer’s employment is split among the agricultural production sectors in which they produce.



Total Employment Contribution of Agricultural and Forestry Categories

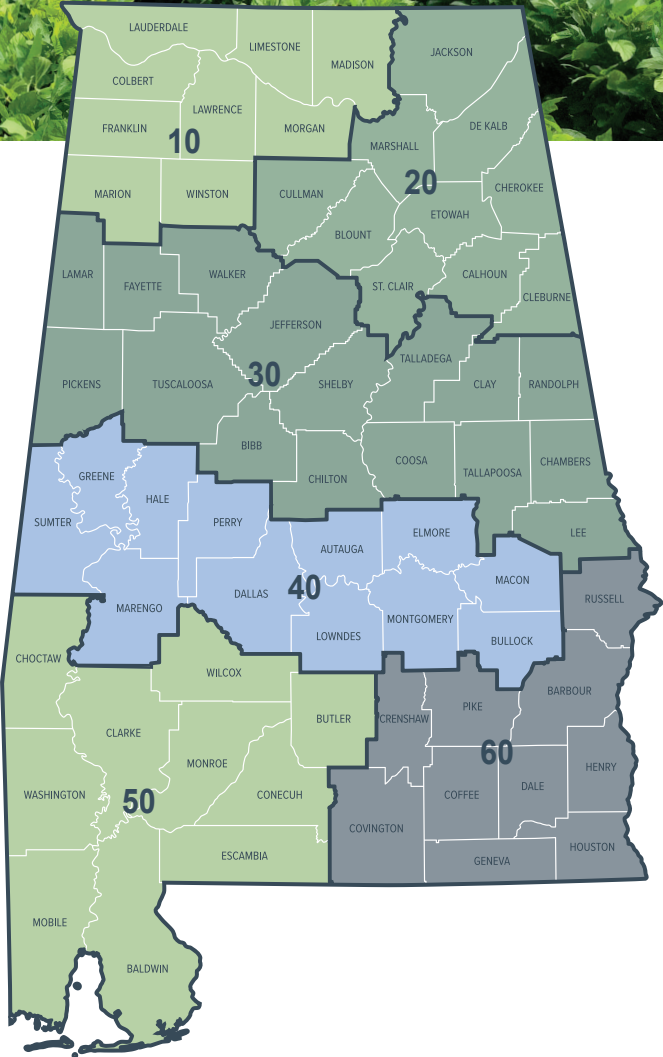
The agricultural sectors make up more than half of the employment from the combined agricultural and forestry industries with agricultural production being the largest source of direct employment. However, when considering indirect and induced employment, the forestry processing sector is the largest single sector, accounting for 30% of the total.



Regional Breakdown

USDA Groupings

The state of Alabama is divided into six geographic regions. These are defined by the USDA as Agricultural Statistical Districts. Each group of counties represents similar geography, climate, and cropping practices. A contribution analysis was performed on each region to provide a better understanding of how the agricultural and forestry industries contribute to the local economy.



Total Contribution and Total Employment in Each Region

Ag District	Total Contribution	Total Employment
10	\$12.9 billion	44,766
20	\$15.2 billion	51,136
30	\$18.8 billion	66,035
40	\$6.7 billion	26,653
50	\$13.3 billion	41,992
60	\$8.4 billion	29,912

The total contribution and total employment are the sum of direct effects, indirect effects, and induced effects in each region. Summing all of the individual regions does not equal the total statewide contribution and employment due to leakages and local effects that are treated differently when modeled as a collective statewide economy.

Table 3 illustrates the total economic contribution of food-and-fiber agriculture and forestry as well as a regional breakdown of the major components. The single largest sector in the state is forestry processing, which is also the two largest regional totals in Agricultural District 30 followed by Agricultural District 50. The third largest sector is food processing in Agricultural District 20. While agricultural production is spread throughout the state, the greatest contribution is in Agricultural District 20. Meanwhile, the smallest overall contribution and generally smallest or close to smallest within category breakdowns is notably in Agricultural District 40.

Table 3. Total Economic Contribution by Region							
INDUSTRY	Total State Effect (in \$1,000)	Ag District 10 Total Effect (in \$1,000)	Ag District 20 Total Effect (in \$1,000)	Ag District 30 Total Effect (in \$1,000)	Ag District 40 Total Effect (in \$1,000)	Ag District 50 Total Effect (in \$1,000)	Ag District 60 Total Effect (in \$1,000)
Agricultural Inputs	\$3,930,510	\$516,585	\$155,075	\$1,421,060	\$171,755	\$1,445,352	\$148,590
Agricultural Production	\$12,096,171	\$1,834,851	\$4,097,196	\$1,368,558	\$854,624	\$930,630	\$2,424,751
Food Processing	\$23,445,868	\$4,206,450	\$6,033,866	\$5,648,241	\$2,002,662	\$2,504,160	\$2,742,154
Fiber Processing	\$4,067,741	\$353,714	\$1,180,167	\$1,221,189	\$204,577	\$279,067	\$701,744
Agricultural and Forestry Services	\$3,108,761	\$443,713	\$295,145	\$1,127,925	\$365,943	\$510,680	\$259,057
Forestry Inputs	\$230,165	\$7,345	\$96,849	\$44,791	\$350	\$58,577	\$4,581
Forestry Production	\$1,028,931	\$94,302	\$83,660	\$230,362	\$163,911	\$312,837	\$122,651
Forestry Processing	\$29,387,540	\$5,443,600	\$3,336,180	\$7,722,646	\$2,933,961	\$7,289,321	\$2,040,606
Total Contribution	\$77,295,686	\$12,900,560	\$15,278,137	\$18,784,773	\$6,697,782	\$13,330,624	\$8,444,135

Total effect is the sum of direct effect + indirect effect + induced effect.





Agricultural and Forestry Sector Data

Further details of the many industries that make up the agricultural and forestry sector are presented in the following tables.

Table 4. Production, Inputs, and Services				
Contribution of Alabama’s Food, Fiber, Forestry, and Green Industries for 2022				
INDUSTRY	Direct Effect (in \$1,000)	Total Effect* (in \$1,000)	Direct Employment (JOBS)	Total Employment (JOBS)
AGRICULTURAL PRODUCTION				
Poultry and egg production	\$6,321,409	\$8,374,008	2,646	11,998
Beef cattle farming	\$501,507	\$703,629	8,959	10,063
Cotton farming	\$396,029	\$566,921	3,891	4,797
Nursery production	\$343,756	\$510,615	3,518	4,360
Grain farming	\$329,244	\$515,342	2,341	3,284
Oilseed farming	\$206,846	\$297,081	930	1,452
Peanut farming	\$153,513	\$237,967	1,508	1,940
Animal production	\$117,231	\$181,862	2,157	2,534
Catfish farming	\$103,969	\$161,289	341	676
Vegetable farming	\$96,766	\$147,337	878	1,158
Hay farming	\$82,733	\$128,248	6,875	7,108
General crop farming	\$76,717	\$118,922	6,375	6,591
Commercial fishing	\$70,133	\$76,720	1,380	1,396
Fruit and tree nut farming	\$32,190	\$49,997	349	452
Commercial hunting	\$9,262	\$13,066	199	219
Dairy cattle production	\$8,800	\$13,168	30	51
Total for Agricultural Production	\$8,850,105	\$12,096,171	42,377	58,080

INDUSTRY	Direct Effect (in \$1,000)	Total Effect* (in \$1,000)	Direct Employment (JOBS)	Total Employment (JOBS)
FORESTRY PRODUCTION				
Commercial logging	\$604,133	\$926,619	5,947	7,722
Forestry production	\$69,123	\$102,312	751	942
Total for Forestry Production	\$673,255	\$1,028,931	6,698	8,665
AGRICULTURAL INPUTS				
Crop protection manufacturing	\$1,124,622	\$1,485,370	644	2,259
Farm machinery and equipment manufacturing	\$586,407	\$886,611	887	2,243
Soil amendment manufacturing	\$351,791	\$559,806	448	1,226
Nutrient mixing	\$214,976	\$294,578	328	716
Nitrogenous nutrient manufacturing	\$209,246	\$361,123	106	643
Phosphatic nutrient manufacturing	\$134,551	\$191,414	114	369
Lawn and garden equipment manufacturing	\$107,582	\$151,608	200	401
Total for Agricultural Inputs	\$2,729,176	\$3,930,510	2,727	7,857
FORESTRY INPUTS				
Sawmill, woodworking, and paper machinery	\$131,729	\$230,165	444	979
Total for Forestry Inputs	\$131,729	\$230,165	444	979
AGRICULTURAL AND FORESTRY SERVICES				
Landscape and horticultural services	\$1,420,376	\$2,498,845	15,186	20,883
Support activities for agriculture and forestry	\$347,912	\$609,916	7,063	8,573
Total for Agricultural and Forestry Services	\$1,768,287	\$3,108,761	22,249	29,455
Total for Production, Inputs, and Services				
	\$14,152,553	\$20,394,537	74,495	105,035

*Total effect is the sum of direct effect + indirect effect + induced effect.



Table 5. Processing				
Contribution of Alabama’s Food, Fiber, Forestry, and Green Industries for 2022				
INDUSTRY	Direct Effect (in \$1,000)	Total Effect* (in \$1,000)	Direct Employment (JOBS)	Total Employment (JOBS)
FOOD PROCESSING				
Poultry processing	\$8,343,572	\$10,650,794	23,045	35,207
Bottled and canned soft drinks and water	\$1,274,924	\$1,774,595	1,839	4,296
Other animal food manufacturing	\$809,416	\$1,030,811	644	1,711
Dog and cat food manufacturing	\$797,103	\$1,018,315	919	1,986
Soybean and other oilseed processing	\$786,062	\$910,926	140	724
Wet corn milling	\$724,275	\$992,070	389	1,621
Bread and bakery product manufacturing (except frozen)	\$641,867	\$944,653	3,994	5,574
Seafood product preparation and packaging	\$498,085	\$705,811	983	2,032
Fats and oils refining and blending	\$403,784	\$514,837	189	725
Ice cream and frozen dessert manufacturing	\$328,474	\$460,402	775	1,432
Coffee and tea manufacturing	\$323,342	\$479,301	451	1,232
Other snack food manufacturing	\$292,136	\$401,173	511	1,034
Meat processed from carcasses	\$284,830	\$365,357	517	919
Roasted nuts and peanut butter manufacturing	\$262,910	\$390,771	440	1,064
Frozen cakes and other pastries manufacturing	\$213,758	\$313,278	2,022	2,554
Spice and extract manufacturing	\$204,702	\$295,068	357	802
All other food manufacturing	\$183,821	\$269,393	416	856
Breweries	\$149,068	\$210,752	528	806
Mayonnaise, dressing, and sauce manufacturing	\$141,125	\$183,699	249	454
Animal, except poultry, harvesting	\$138,753	\$182,948	193	420
Flour milling	\$136,959	\$192,433	111	364
Fluid milk manufacturing	\$120,360	\$161,525	148	362
Rendering and meat byproduct processing	\$102,824	\$181,615	200	598
Canned fruit and vegetable manufacturing	\$94,390	\$136,399	174	378
Dry pasta, mixes, and dough manufacturing	\$79,421	\$114,306	133	309
Frozen specialties manufacturing	\$71,692	\$93,657	213	323
Nonchocolate confectionery manufacturing	\$60,962	\$91,580	149	296
Canned specialties	\$54,540	\$66,706	79	138
Distilleries	\$52,699	\$72,141	78	166

INDUSTRY	Direct Effect (in \$1,000)	Total Effect* (in \$1,000)	Direct Employment (JOBS)	Total Employment (JOBS)
Frozen fruit, juice, and vegetable manufacturing	\$42,072	\$65,914	83	200
Cookie and cracker manufacturing	\$30,185	\$44,250	91	163
Confectionery manufacturing from purchased chocolate	\$25,325	\$37,558	75	133
Wineries	\$16,974	\$26,237	55	99
Flavoring syrup and concentrate manufacturing	\$15,314	\$20,100	8	30
Dehydrated food products manufacturing	\$13,207	\$17,492	29	50
Dry, condensed, and evaporated dairy product manufacturing	\$8,309	\$11,169	7	21
Cheese manufacturing	\$7,756	\$9,963	8	19
Sugar cane mills and refining	\$4,208	\$6,139	4	13
Chocolate and confectionery manufacturing from cacao beans	\$1,119	\$1,729	2	5
Total for Food Processing	\$17,740,323	\$23,445,868	40,247	69,115
FIBER PROCESSING				
Fiber, yarn, and thread mills	\$749,153	\$945,180	2,309	3,184
Broadwoven fabric mills	\$679,448	\$928,474	2,231	3,467
Carpet and rug mills	\$437,314	\$551,084	1,362	1,912
Tobacco product manufacturing	\$171,225	\$212,372	62	282
Textile bag and canvas mills	\$150,581	\$225,008	687	1,126
Curtain and linen mills	\$118,884	\$168,432	576	831
Other textile product mills	\$109,687	\$181,431	611	1,013
Hosiery and sock mills	\$98,238	\$145,674	1,118	1,361
Narrow fabric mills and schiffli machine embroidery	\$78,189	\$109,690	405	563
Women's and girls' cut-and-sew apparel manufacturing	\$75,167	\$110,872	379	603
Rope, cordage, twine, tire cord, and tire fabric mills	\$65,309	\$101,073	233	418
Other apparel knitting mills	\$63,196	\$87,090	602	726
Nonwoven fabric mills	\$50,739	\$66,595	104	176
Men's and boys' cut-and-sew apparel manufacturing	\$44,225	\$63,214	418	531
Other cut-and-sew apparel manufacturing	\$28,086	\$43,667	241	330
Cut-and-sew apparel contractors	\$22,030	\$32,901	285	347
Knit fabric mills	\$18,592	\$26,896	74	116

INDUSTRY	Direct Effect (in \$1,000)	Total Effect* (in \$1,000)	Direct Employment (JOBS)	Total Employment (JOBS)
FIBER PROCESSING (CONTINUED)				
Apparel accessories and other apparel manufacturing	\$13,440	\$19,178	108	138
Other leather and allied product manufacturing	\$12,682	\$20,729	118	155
Textile and fabric finishing mills	\$11,194	\$16,059	40	63
Fabric coating mills	\$6,755	\$9,113	20	31
Leather and hide tanning and finishing	\$1,052	\$1,343	4	6
Footwear manufacturing	\$1,014	\$1,666	10	13
Total for Fiber Processing	\$3,006,198	\$4,067,741	11,997	17,392
FORESTRY PROCESSING				
Paperboard mills	\$3,306,828	\$4,915,638	3,154	10,134
Sawmills	\$2,978,164	\$4,420,652	5,611	12,392
Paper mills	\$2,851,644	\$4,005,592	2,907	8,006
Paperboard container manufacturing	\$2,092,723	\$2,970,818	3,458	7,821
Manufactured home (mobile home) manufacturing	\$1,404,677	\$2,035,600	4,182	7,419
Reconstituted wood product manufacturing	\$1,161,491	\$1,550,185	1,160	2,759
Wood preservation	\$1,138,703	\$1,560,295	1,233	3,177
Wood kitchen cabinet and countertop manufacturing	\$979,820	\$1,459,052	5,264	7,819
Veneer and plywood manufacturing	\$677,654	\$930,609	1,564	2,765
Paper bag and coated and treated paper manufacturing	\$507,912	\$684,302	968	1,828
Showcase, partition, shelving, and locker manufacturing	\$444,505	\$669,457	1,624	2,646
Wood container and pallet manufacturing	\$390,796	\$581,715	1,463	2,383
Engineered wood member and truss manufacturing	\$372,407	\$530,705	889	1,652
Other millwork, including flooring	\$353,203	\$495,304	1,087	1,805
Cut stock, resawing lumber, and planing	\$337,394	\$448,789	793	1,350
All other miscellaneous wood product manufacturing	\$253,381	\$383,942	830	1,508
Pulp mills	\$242,668	\$352,989	315	824
Wood window and door manufacturing	\$217,886	\$325,160	732	1,266

INDUSTRY	Direct Effect (in \$1,000)	Total Effect* (in \$1,000)	Direct Employment (JOBS)	Total Employment (JOBS)
Prefabricated wood building manufacturing	\$145,479	\$206,149	369	681
Wood office furniture manufacturing	\$124,439	\$192,816	501	850
Upholstered household furniture manufacturing	\$102,963	\$163,416	470	777
All other converted paper product manufacturing	\$94,885	\$137,928	199	420
Sanitary paper product manufacturing	\$88,728	\$114,534	80	204
Nonupholstered wood household furniture manufacturing	\$81,197	\$122,191	493	704
Stationery product manufacturing	\$55,340	\$78,472	139	255
Custom architectural woodwork and millwork	\$33,310	\$51,230	186	281
Total for Forestry Processing	\$20,438,197	\$29,387,540	39,671	81,729
Total for Processing	\$41,184,718	\$56,901,148	91,915	168,235

*Total effect is the sum of direct effect + indirect effect + induced effect.

Total for Alabama's Food, Fiber, and Forestry Industries	\$55,337,271	\$77,295,686	166,410	273,271
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Table 6. Regional Production, Inputs, and Services							
By Agricultural District of Alabama's Food, Fiber, Forestry, and Green Industries for 2022							
INDUSTRY	Total State Effect (in \$1,000)	Ag District 10 Total Effect (in \$1,000)	Ag District 20 Total Effect (in \$1,000)	Ag District 30 Total Effect (in \$1,000)	Ag District 40 Total Effect (in \$1,000)	Ag District 50 Total Effect (in \$1,000)	Ag District 60 Total Effect (in \$1,000)
AGRICULTURAL PRODUCTION							
Poultry and egg production	\$8,374,008	\$1,107,264	\$3,513,319	\$987,693	\$211,582	\$302,545	\$1,841,925
Beef cattle farming	\$703,629	\$92,605	\$166,330	\$102,117	\$128,596	\$68,002	\$116,062
Cotton farming	\$566,921	\$138,415	\$56,983	\$39,016	\$74,583	\$92,457	\$136,193
Grain farming	\$515,342	\$256,551	\$82,610	\$31,570	\$44,703	\$34,683	\$40,531
Nursery production	\$510,615	\$20,294	\$68,667	\$110,199	\$70,232	\$194,432	\$31,726
Oilseed farming	\$297,081	\$162,583	\$64,267	\$14,719	\$16,782	\$12,580	\$8,891
Peanut farming	\$237,967	\$498	\$453	\$3,223	\$2,867	\$62,870	\$153,406
Animal production	\$181,862	\$14,622	\$39,420	\$19,870	\$86,431	\$13,004	\$14,948
Catfish farming	\$161,289	\$25	\$31	\$3,640	\$136,244	\$108	\$122
Vegetable farming	\$147,337	\$3,855	\$58,040	\$9,165	\$13,094	\$15,630	\$38,547
Hay farming	\$128,248	\$16,825	\$32,695	\$19,977	\$24,685	\$9,216	\$20,013
General crop farming	\$118,922	\$13,486	\$57	\$4,536	\$20,433	\$65,391	\$5,233
Commercial fishing	\$76,720	\$11	\$14	\$752	\$15,630	\$50,796	\$7,536
Fruit and tree nut farming	\$49,997	\$3,167	\$7,161	\$17,956	\$4,997	\$7,114	\$6,086
Dairy cattle production	\$13,168	\$3,028	\$3,499	\$2,405	\$680	\$957	\$1,862
Commercial hunting	\$13,066	\$1,624	\$3,652	\$1,722	\$3,085	\$842	\$1,672
Total for Agricultural Production	\$12,096,171	\$1,834,851	\$4,097,196	\$1,368,558	\$854,624	\$930,630	\$2,424,751
FORESTRY PRODUCTION							
Commercial logging	\$926,619	\$89,629	\$75,437	\$208,617	\$139,267	\$280,103	\$113,530
Forestry production	\$102,312	\$4,673	\$8,222	\$21,745	\$24,644	\$32,733	\$9,122
Total for Forestry Production	\$1,028,931	\$94,302	\$83,660	\$230,362	\$163,911	\$312,837	\$122,651

INDUSTRY	Total State Effect (in \$1,000)	Ag District 10 Total Effect (in \$1,000)	Ag District 20 Total Effect (in \$1,000)	Ag District 30 Total Effect (in \$1,000)	Ag District 40 Total Effect (in \$1,000)	Ag District 50 Total Effect (in \$1,000)	Ag District 60 Total Effect (in \$1,000)
AGRICULTURAL INPUTS							
Crop protection manufacturing	\$1,485,370	\$59,215	\$1,961	\$212,263	\$2,484	\$1,178,913	\$913
Farm machinery and equipment manufacturing	\$886,611	\$249,342	\$84,872	\$198,152	\$108,615	\$117,947	\$75,401
Soil amendment manufacturing	\$559,806	\$1,246	\$4,737	\$569,052	\$1,817	\$12,159	\$377
Nitrogenous nutrient manufacturing	\$361,123	\$29,317	\$42,712	\$148,490	\$57,283	\$73,254	\$1,296
Nutrient mixing	\$294,578	\$4,915	\$9,630	\$202,920	\$1,087	\$62,734	\$21,124
Phosphatic nutrient manufacturing	\$191,414	\$172,050	\$909	\$2,382	\$106	\$140	\$12
Lawn and garden equipment manufacturing	\$151,608	\$500	\$10,254	\$87,800	\$362	\$206	\$49,467
Total for Agricultural Inputs	\$3,930,510	\$516,585	\$155,075	\$1,421,060	\$171,755	\$1,445,352	\$148,590
FORESTRY INPUTS							
Sawmill, woodworking, and paper machinery	\$230,165	\$7,345	\$96,849	\$44,791	\$350	\$58,577	\$4,581
Total for Forestry Inputs	\$230,165	\$7,345	\$96,849	\$44,791	\$350	\$58,577	\$4,581
AGRICULTURAL AND FORESTRY SERVICES							
Landscape and horticultural services	\$2,498,845	\$364,767	\$234,201	\$991,056	\$282,342	\$431,183	\$120,523
Support activities for agriculture and forestry	\$609,916	\$78,946	\$60,945	\$136,869	\$83,601	\$79,497	\$138,534
Total for Agricultural and Forestry Services	\$3,108,761	\$443,713	\$295,145	\$1,127,925	\$365,943	\$510,680	\$259,057
Total for Production, Inputs, and Services							
Total for Production, Inputs, and Services	\$20,394,537	\$2,896,796	\$4,727,925	\$4,192,697	\$1,556,583	\$3,258,076	\$2,959,630

Total effect is the sum of direct effect + indirect effect + induced effect.

Table 7. Regional Processing							
By Agricultural District of Alabama’s Food, Fiber, Forestry, and Green Industries for 2022							
INDUSTRY	Total State Effect (in \$1,000)	Ag District 10 Total Effect (in \$1,000)	Ag District 20 Total Effect (in \$1,000)	Ag District 30 Total Effect (in \$1,000)	Ag District 40 Total Effect (in \$1,000)	Ag District 50 Total Effect (in \$1,000)	Ag District 60 Total Effect (in \$1,000)
FOOD PROCESSING							
Poultry processing	\$10,650,794	\$2,038,101	\$4,794,924	\$1,134,665	\$769,586	\$34,214	\$1,727,354
Bottled and canned soft drinks and water	\$1,774,595	\$7,327	\$124,197	\$1,359,463	\$130,970	\$112,133	\$57,630
Other animal food manufacturing	\$1,030,811	\$152,139	\$202,807	\$242,475	\$166,947	\$28,873	\$219,035
Dog and cat food manufacturing	\$1,018,315	\$654,942	\$229,357	\$91,009	\$555	\$1,410	\$133
Wet corn milling	\$992,070	\$149	\$103	\$2,505	\$1,680	\$954,618	\$790
Bread and bakery product manufacturing (except frozen)	\$944,653	\$143,169	\$71,213	\$357,614	\$131,752	\$151,349	\$77,233
Soybean and other oilseed processing	\$910,926	\$826,049	\$7,032	\$5,664	\$455	\$44,673	\$164
Seafood product preparation and packaging	\$705,811	\$418	\$308	\$29,436	\$102,549	\$551,718	\$1,392
Fats and oils refining and blending	\$514,837	\$1,860	\$181,073	\$300,675	\$29,330	\$1,052	\$293
Coffee and tea manufacturing	\$479,301	\$2,393	\$42,823	\$392,628	\$3,188	\$20,498	\$26,032
Ice cream and frozen dessert manufacturing	\$460,402	\$64,959	\$4,804	\$371,145	\$2,174	\$27,151	\$638
Other snack food manufacturing	\$401,173	\$18,115	\$34,140	\$275,142	\$31,629	\$37,184	\$12,080
Roasted nuts and peanut butter manufacturing	\$390,771	\$18,657	\$14,895	\$78,290	\$32,853	\$33,938	\$197,358
Meat processed from carcasses	\$365,357	\$17,574	\$45,542	\$70,406	\$51,948	\$143,593	\$36,298
Frozen cakes and other pastries manufacturing	\$313,278	\$56,530	\$35,264	\$110,579	\$27,638	\$50,814	\$25,263

INDUSTRY	Total State Effect (in \$1,000)	Ag District 10 Total Effect (in \$1,000)	Ag District 20 Total Effect (in \$1,000)	Ag District 30 Total Effect (in \$1,000)	Ag District 40 Total Effect (in \$1,000)	Ag District 50 Total Effect (in \$1,000)	Ag District 60 Total Effect (in \$1,000)
Spice and extract manufacturing	\$295,068	\$809	\$64,777	\$42,698	\$112,636	\$67,398	\$1,674
All other food manufacturing	\$269,393	\$19,784	\$30,297	\$120,117	\$19,319	\$16,714	\$60,338
Breweries	\$210,752	\$68,468	\$22,617	\$97,331	\$1,339	\$13,556	\$4,548
Flour milling	\$192,433	\$38,173	\$549	\$38,117	\$89,891	\$473	\$20,783
Mayonnaise, dressing, and sauce manufacturing	\$183,699	\$1,853	\$12,959	\$32,084	\$27,274	\$630	\$102,556
Animal, except poultry, harvesting	\$182,948	\$35,576	\$40,720	\$35,241	\$29,793	\$32,544	\$10,327
Rendering and meat byproduct processing	\$181,615	\$10,460	\$8,598	\$100,869	\$40,184	\$13,087	\$9,337
Fluid milk manufacturing	\$161,525	\$99	\$276	\$22,467	\$527	\$917	\$131,956
Canned fruit and vegetable manufacturing	\$136,399	\$316	\$15,688	\$81,031	\$18,348	\$3,722	\$17,261
Dry pasta, mixes, and dough manufacturing	\$114,306	\$145	\$167	\$13,716	\$33,334	\$64,790	\$360
Frozen specialties manufacturing	\$93,657	\$106	\$144	\$1,388	\$73,184	\$17,476	\$539
Nonchocolate confectionery manufacturing	\$91,580	\$196	\$15,682	\$2,458	\$62,772	\$7,911	\$424
Distilleries	\$72,141	\$15,938	\$168	\$13,833	\$100	\$41,082	\$30
Canned specialties	\$66,706	\$125	\$374	\$67,289	\$253	\$37	\$34
Frozen fruit, juice, and vegetable manufacturing	\$65,914	\$108	\$569	\$67,448	\$399	\$32	\$49
Cookie and cracker manufacturing	\$44,250	\$185	\$495	\$45,450	\$299	\$107	\$58
Confectionery manufacturing from purchased chocolate	\$37,558	\$10,351	\$224	\$16,686	\$148	\$9,765	\$60
Wineries	\$26,237	\$696	\$14,932	\$8,668	\$38	\$882	\$5
Flavoring syrup and concentrate manufacturing	\$20,100	\$3	\$3	\$58	\$31	\$19,690	\$22

INDUSTRY	Total State Effect (in \$1,000)	Ag District 10 Total Effect (in \$1,000)	Ag District 20 Total Effect (in \$1,000)	Ag District 30 Total Effect (in \$1,000)	Ag District 40 Total Effect (in \$1,000)	Ag District 50 Total Effect (in \$1,000)	Ag District 60 Total Effect (in \$1,000)
FOOD PROCESSING CONTINUED							
Dehydrated food products manufacturing	\$17,492	\$89	\$15,980	\$475	\$13	\$10	\$4
Dry, condensed, and evaporated dairy product manufacturing	\$11,169	\$389	\$107	\$10,890	\$56	\$14	\$19
Cheese manufacturing	\$9,963	\$182	\$10	\$136	\$9,437	\$101	\$72
Sugar cane mills and refining	\$6,139	\$11	\$34	\$6,321	\$21	\$2	\$2
Chocolate and confectionery manufacturing from cacao beans	\$1,729	\$3	\$14	\$1,774	\$12	\$4	\$5
Total for Food Processing	\$23,445,868	\$4,206,450	\$6,033,866	\$5,648,241	\$2,002,662	\$2,504,160	\$2,742,154
FIBER PROCESSING							
Fiber, yarn, and thread mills	\$945,180	\$10,962	\$321,199	\$358,529	\$90,418	\$9,733	\$137,547
Broadwoven fabric mills	\$928,474	\$3,203	\$93,809	\$493,336	\$3,643	\$1,551	\$315,926
Carpet and rug mills	\$551,084	\$23,158	\$347,088	\$12,398	\$2,379	\$139,770	\$2,390
Textile bag and canvas mills	\$225,008	\$42,690	\$42,989	\$32,714	\$9,257	\$30,145	\$56,297
Tobacco product manufacturing	\$212,372	\$65,889	\$866	\$45,953	\$592	\$212	\$94,241
Other textile product mills	\$181,431	\$49,707	\$32,221	\$42,661	\$405	\$10,007	\$37,004
Curtain and linen mills	\$168,432	\$22,043	\$46,827	\$55,649	\$23,550	\$15,976	\$229
Hosiery and sock mills	\$145,674	\$2,803	\$99,543	\$23,230	\$3,994	\$3,136	\$2,796
Women's and girls' cut-and-sew apparel manufacturing	\$110,872	\$30,887	\$13,022	\$27,948	\$16,174	\$5,346	\$13,876
Narrow fabric mills and schiffli machine embroidery	\$109,690	\$41,421	\$15,949	\$23,926	\$23,915	\$159	\$158

INDUSTRY	Total State Effect (in \$1,000)	Ag District 10 Total Effect (in \$1,000)	Ag District 20 Total Effect (in \$1,000)	Ag District 30 Total Effect (in \$1,000)	Ag District 40 Total Effect (in \$1,000)	Ag District 50 Total Effect (in \$1,000)	Ag District 60 Total Effect (in \$1,000)
Rope, cordage, twine, tire cord, and tire fabric mills	\$101,073	\$10,801	\$67,109	\$2,988	\$11,491	\$215	\$94
Other apparel knitting mills	\$87,090	\$1,064	\$66,397	\$10,870	\$398	\$893	\$1,954
Nonwoven fabric mills	\$66,595	\$158	\$138	\$14,857	\$256	\$49,927	\$52
Men's and boys' cut-and-sew apparel manufacturing	\$63,214	\$18,385	\$7,435	\$15,689	\$8,825	\$3,177	\$7,629
Other cut-and-sew apparel manufacturing	\$43,667	\$11,974	\$4,964	\$11,701	\$5,916	\$2,558	\$5,025
Cut-and-sew apparel contractors	\$32,901	\$1,583	\$364	\$6,094	\$375	\$1,554	\$21,075
Knit fabric mills	\$26,896	\$80	\$273	\$27,193	\$85	\$19	\$21
Other leather and allied product manufacturing	\$20,729	\$729	\$5,065	\$11,046	\$1,969	\$1,553	\$278
Apparel accessories and other apparel manufacturing	\$19,178	\$6,389	\$609	\$3,823	\$924	\$3,125	\$3,605
Textile and fabric finishing mills	\$16,059	\$76	\$14,238	\$494	\$5	\$4	\$21
Fabric coating mills	\$9,113	\$8,480	\$55	\$67	\$4	\$6	\$2
Footwear manufacturing	\$1,666	\$1,231	\$7	\$15	\$1	\$0	\$253
Leather and hide tanning and finishing	\$1,343	\$1	\$0	\$7	\$3	\$2	\$1,271
Total for Fiber Processing	\$4,067,741	\$353,714	\$1,180,167	\$1,221,189	\$204,577	\$279,067	\$701,744





INDUSTRY	Total State Effect (in \$1,000)	Ag District 10 Total Effect (in \$1,000)	Ag District 20 Total Effect (in \$1,000)	Ag District 30 Total Effect (in \$1,000)	Ag District 40 Total Effect (in \$1,000)	Ag District 50 Total Effect (in \$1,000)	Ag District 60 Total Effect (in \$1,000)
FORESTRY PROCESSING							
Paperboard mills	\$4,915,638	\$24,644	\$807,344	\$707,842	\$823,619	\$2,044,762	\$336,979
Sawmills	\$4,420,652	\$276,833	\$189,733	\$1,555,889	\$386,111	\$1,345,569	\$638,594
Paper mills	\$4,005,592	\$571,820	\$16,288	\$1,114,393	\$693,221	\$1,535,793	\$11,351
Paperboard container manufacturing	\$2,970,818	\$622,800	\$544,059	\$232,376	\$524,570	\$458,948	\$493,402
Manufactured home (mobile home) manufacturing	\$2,035,600	\$1,731,694	\$144,925	\$23,501	\$1,090	\$12,999	\$491
Wood preservation	\$1,560,295	\$508,024	\$9,221	\$601,046	\$19,072	\$243,129	\$172,100
Reconstituted wood product manufacturing	\$1,550,185	\$7,854	\$647,580	\$386,788	\$2,710	\$470,146	\$1,196
Wood kitchen cabinet and countertop manufacturing	\$1,459,052	\$175,697	\$102,047	\$974,234	\$87,345	\$73,524	\$59,595
Veneer and plywood manufacturing	\$930,609	\$2,350	\$67,419	\$294,614	\$17,925	\$480,941	\$64,062
Paper bag and coated and treated paper manufacturing	\$684,302	\$381,909	\$71,302	\$156,818	\$1,647	\$50,965	\$265
Showcase, partition, shelving, and locker manufacturing	\$669,457	\$69,731	\$308,093	\$141,017	\$91,841	\$2,441	\$10,784
Wood container and pallet manufacturing	\$581,715	\$98,589	\$147,437	\$161,381	\$57,731	\$28,254	\$71,855
Engineered wood member and truss manufacturing	\$530,705	\$52,676	\$101,595	\$149,969	\$31,003	\$135,725	\$54,289
Other millwork, including flooring	\$495,304	\$124,182	\$33,803	\$202,016	\$17,094	\$60,788	\$56,688

INDUSTRY	Total State Effect (in \$1,000)	Ag District 10 Total Effect (in \$1,000)	Ag District 20 Total Effect (in \$1,000)	Ag District 30 Total Effect (in \$1,000)	Ag District 40 Total Effect (in \$1,000)	Ag District 50 Total Effect (in \$1,000)	Ag District 60 Total Effect (in \$1,000)
Cut stock, resawing lumber, and planing	\$448,789	\$133,140	\$21,849	\$192,478	\$47,895	\$23,232	\$31,127
All other miscellaneous wood product manufacturing	\$383,942	\$185,162	\$6,653	\$73,784	\$48,554	\$59,837	\$697
Pulp mills	\$352,989	\$959	\$1,822	\$207,739	\$1,763	\$145,752	\$667
Wood window and door manufacturing	\$325,160	\$118,864	\$27,052	\$64,294	\$37,168	\$65,942	\$596
Prefabricated wood building manufacturing	\$206,149	\$49,858	\$50,678	\$55,826	\$17,696	\$18,015	\$8,978
Wood office furniture manufacturing	\$192,816	\$75,814	\$2,102	\$114,078	\$535	\$537	\$177
Upholstered household furniture manufacturing	\$163,416	\$15,966	\$1,575	\$109,157	\$8,310	\$13,417	\$15,828
All other converted paper product manufacturing	\$137,928	\$498	\$26,636	\$112,115	\$591	\$387	\$109
Nonupholstered wood household furniture manufacturing	\$122,191	\$92,311	\$3,508	\$10,366	\$661	\$8,513	\$1,312
Sanitary paper product manufacturing	\$114,534	\$107,827	\$638	\$843	\$79	\$105	\$12
Stationery product manufacturing	\$78,472	\$2,120	\$753	\$66,369	\$11,799	\$1,238	\$167
Custom architectural woodwork and millwork	\$51,230	\$12,277	\$2,069	\$13,712	\$3,931	\$8,363	\$9,283
Total for Forestry Processing	\$29,387,540	\$5,443,600	\$3,336,180	\$7,722,646	\$2,933,961	\$7,289,321	\$2,040,606
Total for Processing	\$56,901,148	\$10,003,764	\$10,550,213	\$14,592,076	\$5,141,199	\$10,072,548	\$5,484,505

Total effect is the sum of direct effect + indirect effect + induced effect.

Total for Alabama's Food, Fiber, and Forestry Industries	\$77,295,686	\$12,900,560	\$15,278,137	\$18,784,773	\$6,697,782	\$13,330,624	\$8,444,135
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Table 8. Production, Inputs, and Services for 2012–2022

Contribution of Alabama’s Food, Fiber, Forestry, and Green Industries (Adjusted for Inflation in 2022 Dollars)

INDUSTRY	2022 Total Effect (in \$1,000)	2017 Total Effect (in \$1,000)	2012 Total Effect (in \$1,000)
AGRICULTURAL PRODUCTION			
Poultry and egg production	\$8,374,008	\$5,340,607	\$4,579,004
Beef cattle farming	\$703,629	\$881,215	\$828,327
Cotton farming	\$566,921	\$466,241	\$415,914
Grain farming	\$515,342	\$326,391	\$345,353
Nursery production	\$510,615	\$520,906	\$447,191
Oilseed farming	\$297,081	\$215,748	\$224,024
Peanut farming	\$237,967	\$273,990	\$338,392
Animal production	\$181,862	\$150,237	\$186,977
Catfish farming	\$161,289	\$201,340	\$174,490
Vegetable farming	\$147,337	\$105,362	\$92,462
Hay farming	\$128,248	\$108,015	\$62,458
General crop farming	\$118,922	\$163,159	\$22,343
Commercial fishing	\$76,720	\$78,792	\$97,114
Fruit and tree nut farming	\$49,997	\$63,647	\$92,612
Dairy cattle production	\$13,168	\$27,374	\$44,452
Commercial hunting	\$13,066	\$12,805	\$25,806
Total for Agricultural Production	\$12,096,171	\$8,935,832	\$7,976,917

INDUSTRY	2022 Total Effect (in \$1,000)	2017 Total Effect (in \$1,000)	2012 Total Effect (in \$1,000)
FORESTRY PRODUCTION			
Commercial logging	\$926,619	\$708,263	\$564,249
Forestry production	\$102,312	\$76,950	\$57,880
Total for Forestry Production	\$1,028,931	\$785,213	\$622,129
AGRICULTURAL INPUTS			
Crop protection manufacturing	\$1,485,370	\$1,691,104	\$2,124,358
Farm machinery and equipment manufacturing	\$886,611	\$809,811	\$874,117
Soil amendment manufacturing	\$559,806	\$458,809	\$453,409
Nitrogenous nutrient manufacturing	\$361,123	\$592,920	\$406,101
Nutrient mixing	\$294,578	\$265,501	\$176,744
Phosphatic nutrient manufacturing	\$191,414	\$0	\$0
Lawn and garden equipment manufacturing	\$151,608	\$22,157	\$35,178
Total for Agricultural Inputs	\$3,930,510	\$3,840,303	\$4,069,907
FORESTRY INPUTS			
Sawmill, woodworking, and paper machinery	\$230,165	\$182,321	\$133,843
Total for Forestry Inputs	\$230,165	\$182,321	\$133,843
AGRICULTURAL AND FORESTRY SERVICES			
Landscape and horticultural services	\$2,498,845	\$1,980,839	\$1,746,160
Support activities for agriculture and forestry	\$609,916	\$693,693	\$671,123
Total for Agricultural and Forestry Services	\$3,108,761	\$2,674,532	\$2,417,283
Total for Production, Inputs, and Services	\$20,394,537	\$16,418,201	\$15,220,080

Total effect is the sum of direct effect + indirect effect + induced effect.



Table 9. Processing for 2012–2022			
Contribution of Alabama’s Food, Fiber, Forestry, and Green Industries (Adjusted for Inflation in 2022 Dollars)			
INDUSTRY	2022 Total Effect (in \$1,000)	2017 Total Effect (in \$1,000)	2012 Total Effect (in \$1,000)
FOOD PROCESSING			
Poultry processing	\$10,650,794	\$9,952,681	\$8,529,644
Bottled and canned soft drinks and water	\$1,774,595	\$1,990,292	\$1,906,217
Other animal food manufacturing	\$1,030,811	\$1,159,817	\$952,096
Dog and cat food manufacturing	\$1,018,315	\$1,289,348	\$1,171,720
Wet corn milling	\$992,070	\$283,878	\$284,374
Bread and bakery product manufacturing (except frozen)	\$944,653	\$925,425	\$885,391
Soybean and other oilseed processing	\$910,926	\$1,385,519	\$667,366
Seafood product preparation and packaging	\$705,811	\$825,045	\$708,682
Fats and oils refining and blending	\$514,837	\$1,131,882	\$993,464
Coffee and tea manufacturing	\$479,301	\$454,641	\$129,758
Ice cream and frozen dessert manufacturing	\$460,402	\$386,106	\$300,099
Other snack food manufacturing	\$401,173	\$467,079	\$526,125
Roasted nuts and peanut butter manufacturing	\$390,771	\$312,426	\$264,157
Meat processed from carcasses	\$365,357	\$307,328	\$1,052,049
Frozen cakes and other pastries manufacturing	\$313,278	\$256,655	\$254,729
Spice and extract manufacturing	\$295,068	\$180,242	\$159,467
All other food manufacturing	\$269,393	\$207,806	\$151,130
Breweries	\$210,752	\$301,180	\$64,387
Flour milling	\$192,433	\$162,557	\$85,843
Mayonnaise, dressing, and sauce manufacturing	\$183,699	\$221,467	\$124,314
Animal, except poultry, harvesting	\$182,948	\$292,259	\$200,727
Rendering and meat byproduct processing	\$181,615	\$124,123	\$177,935
Fluid milk manufacturing	\$161,525	\$323,969	\$372,600
Canned fruit and vegetable manufacturing	\$136,399	\$140,089	\$28,611
Dry pasta, mixes, and dough manufacturing	\$114,306	\$84,239	\$85,103
Frozen specialties manufacturing	\$93,657	\$21,374	\$5,894
Nonchocolate confectionery manufacturing	\$91,580	\$94,228	\$95,290
Distilleries	\$72,141	\$70,986	\$0
Canned specialties	\$66,706	\$0	\$0
Frozen fruit, juice, and vegetable manufacturing	\$65,914	\$289,076	\$75,015

INDUSTRY	2022 Total Effect (in \$1,000)	2017 Total Effect (in \$1,000)	2012 Total Effect (in \$1,000)
Cookie and cracker manufacturing	\$44,250	\$93,656	\$54,898
Confectionery manufacturing from purchased chocolate	\$37,558	\$21,187	\$37,073
Wineries	\$26,237	\$10,780	\$30,168
Flavoring syrup and concentrate manufacturing	\$20,100	\$135,187	\$26,718
Dehydrated food products manufacturing	\$17,492	\$43,751	\$0
Dry, condensed, and evaporated dairy product manufacturing	\$11,169	\$0	\$0
Cheese manufacturing	\$9,963	\$44,952	\$59,328
Sugar cane mills and refining	\$6,139	\$41,187	\$27,906
Chocolate and confectionery manufacturing from cacao beans	\$1,729	\$0	\$0
Total for Food Processing	\$23,445,868	\$24,032,415	\$20,488,276
FIBER PROCESSING			
Fiber, yarn, and thread mills	\$945,180	\$1,119,003	\$1,326,956
Broadwoven fabric mills	\$928,474	\$812,614	\$876,179
Carpet and rug mills	\$551,084	\$803,908	\$804,593
Textile bag and canvas mills	\$225,008	\$76,952	\$86,837
Tobacco product manufacturing	\$212,372	\$303,900	\$427,824
Other textile product mills	\$181,431	\$165,685	\$179,317
Curtain and linen mills	\$168,432	\$228,571	\$150,149
Hosiery and sock mills	\$145,674	\$196,932	\$248,689
Women's and girls' cut-and-sew apparel manufacturing	\$110,872	\$36,810	\$26,832
Narrow fabric mills and schiffli machine embroidery	\$109,690	\$24,673	\$51,644
Rope, cordage, twine, tire cord, and tire fabric mills	\$101,073	\$116,456	\$110,948
Other apparel knitting mills	\$87,090	\$20,617	\$201,994
Nonwoven fabric mills	\$66,595	\$114,965	\$54,646
Men's and boys' cut-and-sew apparel manufacturing	\$63,214	\$159,936	\$245,971
Other cut-and-sew apparel manufacturing	\$43,667	\$58,842	\$67,767
Cut-and-sew apparel contractors	\$32,901	\$31,178	\$43,124
Knit fabric mills	\$26,896	\$25,395	\$17,377
Other leather and allied product manufacturing	\$20,729	\$22,338	\$28,173
Apparel accessories and other apparel manufacturing	\$19,178	\$18,850	\$45,535
Textile and fabric finishing mills	\$16,059	\$34,447	\$76,580
Fabric coating mills	\$9,113	\$7,107	\$13,988
Footwear manufacturing	\$1,666	\$1,543	\$0
Leather and hide tanning and finishing	\$1,343	\$17,009	\$10,560
Total for Fiber Processing	\$4,067,741	\$4,397,731	\$5,095,682

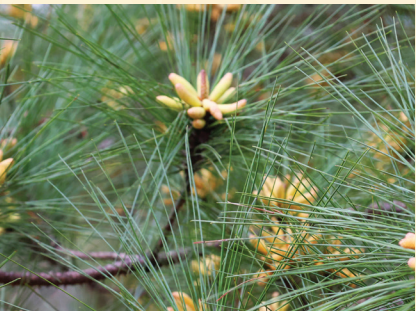
INDUSTRY	2022 Total Effect (in \$1,000)	2017 Total Effect (in \$1,000)	2012 Total Effect (in \$1,000)
FORESTRY PROCESSING			
Paperboard mills	\$4,915,638	\$4,674,983	\$4,684,654
Sawmills	\$4,420,652	\$2,180,613	\$2,011,014
Paper mills	\$4,005,592	\$5,069,170	\$6,326,053
Paperboard container manufacturing	\$2,970,818	\$1,531,275	\$1,418,119
Manufactured home (mobile home) manufacturing	\$2,035,600	\$815,625	\$551,465
Wood preservation	\$1,560,295	\$789,282	\$665,423
Reconstituted wood product manufacturing	\$1,550,185	\$514,290	\$343,300
Wood kitchen cabinet and countertop manufacturing	\$1,459,052	\$1,424,588	\$890,220
Veneer and plywood manufacturing	\$930,609	\$611,286	\$585,575
Paper bag and coated and treated paper manufacturing	\$684,302	\$1,012,237	\$792,385
Showcase, partition, shelving, and locker manufacturing	\$669,457	\$494,167	\$423,754
Wood container and pallet manufacturing	\$581,715	\$386,585	\$252,550
Engineered wood member and truss manufacturing	\$530,705	\$245,187	\$160,247
Other millwork, including flooring	\$495,304	\$351,582	\$231,087
Cut stock, resawing lumber, and planing	\$448,789	\$245,812	\$231,717
All other miscellaneous wood product manufacturing	\$383,942	\$145,746	\$167,433
Pulp mills	\$352,989	\$785,292	\$838,372
Wood window and door manufacturing	\$325,160	\$289,743	\$153,732
Prefabricated wood building manufacturing	\$206,149	\$114,536	\$98,791
Wood office furniture manufacturing	\$192,816	\$75,299	\$174,600
Upholstered household furniture manufacturing	\$163,416	\$99,256	\$8,127
All other converted paper product manufacturing	\$137,928	\$202,143	\$148,619
Nonupholstered wood household furniture manufacturing	\$122,191	\$200,937	\$253,065
Sanitary paper product manufacturing	\$114,534	\$0	\$0
Stationery product manufacturing	\$78,472	\$53,194	\$77,170
Custom architectural woodwork and millwork	\$51,230	\$74,260	\$7,350
Total for Forestry Processing	\$29,387,540	\$22,387,088	\$21,494,824
Total for Processing	\$56,901,148	\$50,817,234	\$47,078,782

Total effect is the sum of direct effect + indirect effect + induced effect.

Total for Alabama's Food, Fiber, and Forestry Industries	\$77,295,686	\$67,235,434	\$62,298,862
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Glossary

- Agricultural Statistical District:** a group of counties in a region identified by the US Department of Agriculture to represent similar geographic, climate, and cropping practices.
- Contribution analysis:** a method used to provide evidence of how important a particular sector is to the existing economy.
- Direct effects:** the value of production, sometimes referred to as output, of an economic activity.
- Employment:** jobs that are generated through modeled economic activity including full-time, part-time, and seasonal employment and proprietors. This does not represent a full-time equivalent.
- Impact analysis:** a method used to determine how a direct change in expenditure of a specific project will affect the local economy.
- IMPLAN:** a regional economic analysis software package that uses input-output modeling to estimate the effects of a specific economic activity within a specified geographic area.
- Indirect effects:** the additional output, sales, or employment generated from business-to-business purchases, i.e., the purchase of raw materials needed for production.
- Induced effects:** the additional output, sales, or employment generated by the household expenditure from earned income generated from the modeled economic activities.
- Industry:** a group of businesses engaged in similar economic activities.
- North American Industrial Classification System (NAICS):** a standardized system of codes used to group businesses based on their primary operation and similarity in production process.
- Sector:** an industry or group of industries that produce similar products or services.
- Total economic contribution:** the sum of the direct, indirect, and induced effects.





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