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Presented to:

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EXECUTIVE SUMMARY

Introduction and Purpose

In February 2025, the U.S. Highbush Blueberry Council, retained The Tootelian Company to assist it in conducting a study to assess the economic impact blueberry growers (hereafter, growers) have within Georgia (hereafter, State). This impact includes the increased business activity created by growing blueberries, the jobs created as a result of this activity throughout the various sectors of the State's economy, the increased labor income generated for those employed, and the indirect business taxes that are created.

Issues of the Study

The specific issues addressed in this study of blueberry growers in Georgia were:

- How much business activity do growers create and how is the overall impact diffused through the various sectors of the State's economy?
- · How many jobs does this business activity create?
- How much labor income is created and how could that income be diffused within the State?
- How much does this business activity generate in indirect business taxes?

Economic impact is a function of spending within a defined geographic area. Accordingly, two models were used in this analysis. A specially designed economic input model was created to help define expenditure levels by growers in an average year. Then, IMPLAN was used to compute the total economic impact.



Findings and Conclusions

Economic impact analyses were conducted for the total expenditures by growers in Georgia. It is important to note that these projections are based on annual average expenditures, which means that this impact is expected to occur each year that such spending occurs.

Based on available data, on the average Georgia blueberry growers spend more than \$450.2 million annually for their acres in production and acres in development. This expenditure averages more than \$1.2 million per day.

Expenditure levels are based on acres reported by the United States Department of Agriculture and estimates of average costs per acre for acres in production and acres in development. Based on this data, and discounted for some possible outmigration of spending, the economic impact of Georgia blueberry growers is estimated to be nearly \$917.3 million annually, or more than \$2.5 million per day. This does not include the economic impact of handlers and other intermediaries that help bring blueberries from farm to market. Thus, the total impacts shown below are conservative in nature.

Total Economic Impact	Total	Per Day	
Output	\$917,255,063	\$2,513,028	
Employment	6,838	n.a.	
Labor Income	\$318,082,573	\$871,459	
Indirect Business Taxes	\$20,654,497	\$56,588	

The findings of this study show that blueberry growers have a significant impact on the State's economy. Overall, the growers create:

 Nearly \$917.3 million in economic output, the best measure of economic impact, each year. This equates to more than \$2.5 million each day of the year.



- Nearly 6,840 jobs on an annual full-time equivalent basis as a result of the business activities of growers and the multiplier effect their purchases generate in a variety of farming and non-farming economic sectors.
- Nearly \$318.1 million in labor income as a result of grower activities, or nearly \$871,500 per day. These are dollars going to wages and salaries for new employment as well as expanded incomes for those already in the labor force (e.g., overtime pay). These dollars are diffused throughout the State's economy as the funds are spent by households for an array of goods and services.
- Nearly \$20.7 million in indirect business taxes, not including income taxes. This equates to nearly \$56,600 per day.
 Depending on how these funds are used, they can help pay for some or all of the State government's programs that further benefit the people residing in Georgia.

Overall, it is clear that blueberry growers play a significant role in strengthening the economic climate of Georgia. Their activities are diffused throughout the economy, touching nearly every aspect of life in the State.



SUMMARY REPORT OF FINDINGS

Introduction and Purpose

In February 2025, the U.S. Highbush Blueberry Council (hereafter, USHBC), retained The Tootelian Company to assist it in conducting a study to assess the economic impact blueberry growers (hereafter, growers) have within Georgia (hereafter, State). This impact includes the increased business activity created by growing blueberries, the jobs created as a result of this activity throughout the various sectors of the State's economy, the increased labor income generated for those employed, and the indirect business taxes that are created. This is a follow-up to a previous economic impact study conducted in 2020.

Issues of the Study

Economic impact is a function of spending within a defined geographic area. The specific issues addressed in this study of blueberry growers in Georgia were:

- How much business activity do growers create and how is the overall impact diffused through the various sectors of the State's economy?
- How many jobs does this business activity create?
- How much labor income is created and how could that income be diffused within the State's economy?
- How much does this business activity generate in indirect business taxes?

This study focused exclusively on growers. However, there are handlers and other intermediaries that also are involved in bringing the blueberries from farm to market which are important components of the entire blueberry industry. They were excluded from this analysis because insufficient financial data was available relative to their spending. Accordingly, this analysis understates the total economic impact of the blueberry industry.



The Consultant

The Tootelian Company is a Sacramento, California-based marketing and management consulting firm. It specializes in performing economic impact studies, conducting cost-benefit analyses, conducting market research surveys, and assisting its clients with their business and marketing plans.

The founder of the company and consultant for this study was Dennis H. Tootelian, Ph.D. Dr. Tootelian is an Emeritus Professor of Marketing and former Director of the Center for Small Business in the College of Business at California State University, Sacramento. He received his Ph.D. in Marketing from Arizona State University, with minor fields in Accounting and Management.

Dr. Tootelian has conducted numerous economic impact studies for a wide variety of commodities in the agricultural sector. In addition, other clients for which economic impact studies have been conducted include the Chicago 2016 Olympic Games Committee, McDonald's Corporation, various trade and professional associations, and governmental entities.

Dr. Tootelian also has published approximately 100 articles dealing with all facets of business and has co-authored six college-level textbooks on marketing, small business management, and pharmacy management. His academic research has appeared as peer-reviewed articles (i.e., reviewed by academicians for quality of research methodology) in such journals as the Journal of Marketing, Journal of Retailing, Journal of Business Research, Journal of Food Products Marketing, Journal of Health Care Marketing, and Journal of Professional Services Marketing. Results of some of his applied research and writing have appeared in The Congressional Record, The Wall Street Journal, Forbes, The Kiplinger Report, USA Today, ABC National News website, and even The National Enquirer.



METHODOLOGY

Two models were used in this analysis. A specially designed economic input model was created to help define an average expenditure level by blueberry growers within Georgia in an average year and to examine the IMPLAN-generated results. IMPLAN was used to compute the total economic impact created by blueberry growers.

Specialty Economic Input Model

To measure grower expenditures, a specialty economic model was created to measure the critical issues associated with growing blueberries within Georgia. This model not only provided the data used in the IMPLAN analysis but analyzed the resulting total economic impact in more detailed ways.

Statistics were available from the United States Department of Agriculture (hereafter, USDA) for the number of acres in production and in development. However, statistics were not available for the average costs per acre to grow and harvest blueberries or for the average cost per acre to develop acres for future blueberry production. Accordingly, historical data was used to estimate average costs. This is explained further in the Findings section of this Summary Report.

IMPLAN

The model used to compute economic impact was IMPLAN. It provides modeling based on data and tools to assess economic impacts at the national, state, and local levels. IMPLAN is widely used by a variety of clients, including federal and state governments, universities, and private sector consultants.

The benefit of using an input-output model like IMPLAN is that it helps evaluate the effects industries have on each other based on the supposition that industries use the outputs of other industries as inputs. An input-output model makes it possible to examine economic relationships between businesses and between businesses and consumers.

Each industry that produces goods and services has an influence on, and in turn is influenced by, the production of goods and services of other industries. These interrelationships are captured through a multiplier effect as the demand and supply trickle over from industry to industry and thus impact total output,



employment, employee compensation, and indirect business taxes.

The range of economic impacts includes direct, indirect, and induced benefits:

- **Direct benefits** consist of economic activity contained exclusively within the wholesale sector. This includes expenditures made and people employed.
- Indirect benefits define the creation of additional economic activity that results from linked businesses, suppliers of goods and services, and provision of operating inputs.
- Induced benefits measure the consumption expenditures
 of direct and indirect sector employees who spend their
 incremental income. Examples of induced benefits include
 employees' expenditures on items such as food, housing,
 transportation, and professional and medical services.

The total direct, indirect, and induced benefits arising due to the multiplier effect are presented in four ways:

- Output accounts for total dollar revenues, including all sources of income for a given time period. This is the best overall measure of business and economic impact.
- **Employment** demonstrates the number of jobs generated and is calculated on an annual full-time equivalent basis.
- Labor Income includes all forms of employee compensation paid by employers (e.g., total payroll costs including benefits, wages and salaries of workers), and proprietary income (e.g., self-employment income, income received by private business owners).
- Indirect Business Taxes consist of property taxes, excise taxes, fees, licenses, and sales taxes paid by businesses. Taxes on profits or income are not included.

The *multiplier effect* for sales and employment reflects the increased economic activity that comes from sales being generated, and expenses being incurred, by blueberry growers. For example, when a grower plants, cultivates, and harvests blueberries, it must spend money to purchase a variety of goods



and other services and hire people through the cultivating and harvesting processes. Purchases made by the grower represent sales to other firms who must then also purchase goods and services and hire people to meet their new demand. The additional hiring to meet demand means more people will have income which they will use to purchase goods and services for their households. All of this brings added sales to firms across nearly all economic sectors in Georgia. The net effect is that sales dollars are recycled in the State through this process of sales requiring additional purchases and employment, which results in sales for other firms who must use that money to make their own purchases and hire people.

Data Sources

Government and industry statistics were used to determine average numbers of acres and expenses per acre, as well as some other operating data for this study. However, to ensure that this information was appropriate, the USHBC was asked to verify that the statistics being used were reasonable for Georgia growers. Based on the information received from the USHBC, the statistics were modified as deemed appropriate. Information from economic impact studies conducted by the analyst previously for the blueberry industry and for other commodity organizations also were used as deemed appropriate.

Information about the industry and data used to assess the economic impact came from such sources as:

- · State of Georgia's official website
- · United States Bureau of the Census
- United States Bureau of Labor Statistics
- United States Department of Agriculture, National Agricultural Statistics Service
- United States Department of Agriculture, Census of Agriculture
- · United States Government official website



Caveats

The results of any research should be used with caution and at the reader's own discretion. Every study, no matter how well constructed, contains the possibility of some degree of error. Accordingly, the reader assumes sole responsibility for the use of this information.



FINDINGS OF THE ANALYSES

The findings of this study are presented in four sections: Computation of Expenditures Used in the Analyses, Economic Impact of Growers, Possible Diffusion of Labor Income Spending, and Possible Uses for Indirect Business Taxes Generated. Tabled data is presented at the end of this Summary Report.

Computation of Expenditures Used in the Analyses

Expenditure estimates for growers were based on multiplying the average number of acres by the average costs per acre. Total grower expenditures were the combined costs of growing and harvesting blueberries for acres in production and the costs of acres in development.

An "average" year was created by using acres and expenditure estimates for 2021, 2022, and 2023. This process was preferred to using just a single year because it eliminated the possibility of using one year which might have had abnormally large or small expenditures. Using a three-year average gave a better representation of what might occur each year.

Number of Acres

The numbers of acres in production were obtained from the USDA's National Agricultural Statistics Service (hereafter NASS). This source provided the number of acres harvested (i.e., acres in production) from 2021 through 2023.

Statistics on the State's acres in development were obtained from the most current Census of Agriculture reports. To estimate the number of acres in development for the years 2021 through 2023, the historical ratios of acres in development to acres of blueberries in production were computed and averaged. This ratio was then applied to the average acres in production to estimates of acres in development for this study.

After consultations with the USHBC, the three-year average number of acres used for this study was 22,033 for acres in production and 3,383 acres in development.



Cost per Acre

Since current statistics were not available for the average cost per acre for acres in production and for acres in development, it was necessary to update the costs used for the 2020 study which were derived from relatively current studies at that time by an inflation factor.

Average costs for this study were computed by determining the average annual growth rate in crop farms production expenditures. The average growth rate for crop farm production expenditures from 2020 through 2023 was 11.6% per year. This growth rate was then applied to the 2020 costs per acre to arrive at costs per acre for each year from 2021 through 2024. Then, a three-year average for costs per acre for acres in production and acres in development was developed.

It was not considered appropriate to include depreciation and amortization since this is not an immediate expenditure. However, by eliminating depreciation and amortization costs, this study excludes future investments that growers will be making to replace depreciable assets such as equipment and facilities. Eventually, growers have to make capital purchases, but the timing of those expenditures is unknown. The net effect of eliminating these costs is to make the analysis considerably more conservative than it might otherwise be in terms of estimating the economic impact on the U.S. economy by growers.

Expenditures per acre also were adjusted downward to reflect the possible out-migration of some dollars for purchases of goods and services made outside of the State. Making this adjustment also results in the net total expenditures for growers being more conservative.

After these reductions, the three-year average cost for acres in production was found to be \$18,906 per acre and the cost for acres in development was \$9,946 per acre.

It is recognized that grower costs per acre can vary widely based on geographic area, the methods of growing employed, whether the blueberries are for fresh or processed markets, prevailing wage rates, and other factors. However, estimates used in this



study for the costs per acre for acres in production and for acres in development represent averages that span the range in grower expenditures.

Net Grower Expenditures

Net total expenditures by growers were a function of the average costs per acre multiplied by the average number of acres. Based on these computations, the net total expenditures for growers were computed to be more than \$450.2 million in an average year, or more than \$1.2 million per day. Average annual expenditures for acres in production are nearly \$416.6 million and more than \$33.6 million for acres in development. This is shown below and also presented in Table One.

Grower Operations	Average Acres	Average Cost Per Acres	Net Expenditures	Expenditures per Day
Acres in Production	22,033	\$18,906	\$416,568,668	\$1,141,284
Acres in Development	3,383	\$9,946	\$33,647,449	\$92,185
Total Spending	n.a.	n.a.	\$450,216,117	\$1,233,469

It is again important to note that these expenditures are for growers only. This analysis does not include expenditures by handlers and other intermediaries who are part of the process of bringing blueberries from field to market. The result is that the expenditures included in this analysis is even more conservative as a result of this omission.



Economic Impact of Growers

Economic impact analyses were conducted based on the average net total expenditures of blueberry growers in Georgia.

It is important to note that these projections are based on average annual expenditures, which means that this impact is expected to occur each year that such spending occurs.

Total Economic Impact

The Output, Employment, Labor Income, and Indirect Business Taxes for Georgia blueberry growers are presented in Table Two in total and Table Three on a per-day basis and summarized below.

Total Economic Impact	Total	Per Day
Output	\$917,255,063	\$2,513,028
Employment	6,838	n.a.
Labor Income	\$318,082,573	\$871,459
Indirect Business Taxes	\$20,654,497	\$56,588

Output. The Output, or the amount of overall business activity created, is projected to total nearly \$917.3 million, equating to more than \$2.5 million each day of the year. This includes the direct spending by growers ("Direct"), the amount of additional business activity created by that spending ("Indirect"), and the amount of additional business activity created by people's spending caused by the incremental labor income ("Induced"). About 49.1% of this impact is caused by grower spending, and the remainder (50.9%) is the result of increased business activity.

As shown below, the industries generating the largest increases in overall business activity were farming (\$525.6 million), real estate/construction/finance/insurance (\$118.5 million), manufacturing (\$49.6 million), professional services (\$42.2 million), and wholesaling (\$42.1 million).

Industry	Output
Farming	\$525,580,409
Real Estate, Const., Fin., Ins.	\$118,469,497
Manufacturing	\$49,581,441
Professional Services	\$42,173,078
Wholesaling	\$42,071,518



Job Creation. Nearly 6,840 additional jobs are expected to be created as a result of the increased business activity. This is computed on an annual full-time equivalent basis. About 48.8% of this is the result of grower operations and the rest (51.2%) is due to the increased business activity caused by the ripple effect of grower spending and the spending of others.

As shown below, the industries generating the largest increases in full-time-equivalent job creation were farming (4,822 jobs), real estate/construction/finance/insurance (433 jobs), retailing (417 jobs), professional services (234 jobs), and health (214 jobs).

Industry	Employment
Farming	4,822
Real Estate, Const., Fin., Ins.	433
Retailing	417
Professional Services	234
Health	214

Labor Income. Labor Income resulting from the additional people employed and current employees earning more is projected to be nearly \$318.1 million, equating to nearly \$871,500 each day of the year. About 47.3% of this income is the direct result of spending by growers, while 52.7% is due to increased business activity. How these funds are likely to be spent across various sectors of the State's economy is based on consumer purchasing patterns described later in this Summary Report.

As shown below, the industries generating the largest increases in labor income were farming (\$208.7 million), real estate/construction/finance/insurance (\$20.2 million), professional services (\$16.9 million), health (\$15.8 million), and retailing (\$13.8 million).

Industry	Labor Income
Farming	\$208,680,903
Real Estate, Const., Fin., Ins.	\$20,225,368
Health	\$16,922,458
Professional Services	\$15,762,239
Retailing	\$13,805,643



Indirect Business Taxes. Finally, nearly \$20.7 million in additional indirect business taxes are created from the increased business activity, equating to nearly \$56,600 each day of the year. These tax dollars are generated from businesses benefiting from the heightened economic activity and the increased employment. About 0.1% of these indirect business taxes are the direct result of spending by growers, while 99.9% is due to the increased business activity. As is described later in this Summary Report, these tax dollars can be used for programs that further serve residents of communities within Georgia.

As shown below, the industries generating the largest increases in indirect business taxes were wholesaling (\$6.2 million), real estate/construction/finance/insurance (\$5.2 million), retailing (\$3.0 million), farming (\$1.3 million), and professional services (\$813,300).

Industry	Business Taxes
Wholesaling	\$6,200,194
Real Estate, Const., Fin., Ins.	\$5,219,572
Retailing	\$3,031,154
Farming	\$1,338,346
Professional Services	\$813,315

Possible Diffusion of Labor Income Spending

The labor income that is created will be diffused throughout the various sectors of the State's economy. As people spend this added income, those funds will be used to purchase a wide array of goods and services.

To illustrate how those funds could be distributed to various economic sectors in Georgia, consumer expenditures across various categories were obtained from the U.S. Bureau of Labor Statistics. Assuming that those funds will be spent in the same proportion as consumers currently spend their incomes, the dollars that are generated for selected sectors are shown below and in more detail in Table Four.



Possible Household Spending	Annual	Per Day
Food	\$41,048,884	\$112,463
Food at home	\$24,973,896	\$68,422
Food away from home	\$16,079,734	\$44,054
Housing	\$103,996,200	\$284,921
Shelter & utilities	\$81,523,491	\$223,352
Household operations & supplies	\$11,760,797	\$32,221
Household furnishings & equipment	\$10,711,912	\$29,348
Apparel and services	\$8,519,221	\$23,340
Transportation	\$57,394,398	\$157,245
Vehicle purchases (net outlay)	\$23,260,559	\$63,728
Public and other transportation	\$3,260,560	\$8,933
Other	\$30,873,297	\$84,584
Healthcare	\$26,274,323	\$71,984
Entertainment	\$13,948,742	\$38,216
Personal care products & services	\$3,939,250	\$10,792
Education	\$5,500,712	\$15,070

As shown above, the greatest amount of spending was for housing (\$104.0 million), transportation (\$57.4 million), and food (\$41.0 million). These three account for 63.6% of the total additional labor income spending.

Possible Uses for Indirect Business Taxes Generated

To illustrate how the indirect business tax dollars could be used to help fund some of Georgia's departments/agencies, the 2024 fiscal year budgets of a variety of agencies were obtained from the State's government's official website. Some caution should be exercised in using these numbers since budgets are adjusted over the course of the fiscal year. Accordingly, these only are presented as illustrations of general amounts spent by State agencies.



Presented below is the percent of various 2024 fiscal year federal agency budgets that could be covered by the indirect business tax dollars generated by the increased business activity within Georgia. It is important to recognize that the total indirect business tax dollars generated were applied to **each** State department/agency. A sample of department/agencies' budgets is listed below and a larger list is presented in Table Five.

State of Georgia	FY 2024	% of Budget Could Fund*
Department of Agriculture	\$61,743,086	33.5%
Department of Community Affairs	\$58,372,566	35.4%
Department of Defense	\$12,393,076	166.7%
Department of Early Care & Learning	\$506,324,539	4.1%
Department of Economic Development	\$37,668,877	54.8%
Department of Natural Resources	\$176,520,726	11.7%
Department of Public Health	\$400,005,720	5.2%
Department of Public Safety	\$227,396,499	9.1%
Department of Veterans Services	\$27,294,616	75.7%
Public Services Commission	\$11,872,624	174.0%
State Forestry Commission	\$50,030,321	41.3%



SUMMARY AND CONCLUSIONS

Economic impact analyses were conducted for the total expenditures by growers in Georgia. It is important to note that these projections are based on annual average expenditures, which means that this impact is expected to occur each year that such spending occurs.

Based on available data, on the average Georgia blueberry growers spend more than \$450.2 million annually for their acres in production and acres in development. This expenditure averages more than \$1.2 million per day.

Expenditure levels are based on acres reported by the United States Department of Agriculture and estimates of average costs per acre for acres in production and acres in development. Based on this data, and discounted for some possible outmigration of spending, the economic impact of Georgia blueberry growers is estimated to be nearly \$917.3 million annually, or more than \$2.5 million per day. This does not include the economic impact of handlers and other intermediaries that help bring blueberries from farm to market. Thus, the total impacts shown below are conservative in nature.

Total Economic Impact	Total	Per Day
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The findings of this study show that blueberry growers have a significant impact on the State's economy. Overall, the growers create:

- Nearly \$917.3 million in economic output, the best measure of economic impact, each year. This equates to more than \$2.5 million each day of the year.
- Nearly 6,840 jobs on an annual full-time equivalent basis as a result of the business activities of growers and the multiplier effect their purchases generate in a variety of farming and nonfarming economic sectors.



- Nearly \$318.1 million in labor income as a result of grower activities, or nearly \$871,500 per day. These are dollars going to wages and salaries for new employment as well as expanded incomes for those already in the labor force (e.g., overtime pay). These dollars are diffused throughout the State's economy as the funds are spent by households for an array of goods and services.
- Nearly \$20.7 million in indirect business taxes, not including income taxes. This equates to nearly \$56,600 per day.
 Depending on how these funds are used, they can help pay for some or all of the State government's programs that further benefit the people residing in Georgia.

Overall, it is clear that blueberry growers play a significant role in strengthening the economic climate of Georgia. Their activities are diffused throughout the economy, touching nearly every aspect of life in the State.



TABLE ONE: AVERAGE ANNUAL GROWER EXPENDITURES WITHIN GEORGIA

Total Impact

Grower Operations	Average Acres	Average Cost Per Acres	Net Expenditures
Acres in Production	22,033	\$18,906	\$416,568,668
Acres in Development	3,383	\$9,946	\$33,647,449
Total Spending	n.a.	n.a.	\$450,216,117



TABLE TWO: AVERAGE ANNUAL ECONOMIC IMPACT OF GEORGIA BLUEBERRY GROWERS

Total Impact

	Output Direct	Output Indirect	Output Induced	Output Total
Manufacturing	n.a.	\$41,754,675	\$7,826,767	\$49,581,441
Wholesaling	n.a.	\$30,587,679	\$11,483,838	\$42,071,518
Retailing	n.a.	\$3,986,971	\$28,978,481	\$32,965,453
Real Estate/ Const./Fin./Ins	n.a.	\$44,517,813	\$73,951,684	\$118,469,497
Professional Services	n.a.	\$15,947,997	\$26,225,082	\$42,173,078
Administrative	n.a.	\$6,085,648	\$10,510,254	\$16,595,902
Education	n.a.	\$80,038	\$3,692,250	\$3,772,288
Health	n.a.	\$871	\$30,346,576	\$30,347,447
Arts, entertainment, recreation	n.a.	\$2,842,187	\$7,213,213	\$10,055,401
Accommodations, food services	n.a.	\$1,244,951	\$11,461,481	\$12,706,431
Other	n.a.	\$18,954,184	\$11,311,699	\$30,265,883
Farming	\$450,216,117	\$74,511,367	\$852,925	\$525,580,409
Federal	n.a.	\$424,667	\$670,964	\$1,095,631
State and local	n.a.	\$1,039,666	\$535,018	\$1,574,684
Total	\$450,216,117	\$241,978,714	\$225,060,232	\$917,255,063



AVERAGE ANNUAL ECONOMIC IMPACT OF GEORGIA BLUEBERRY GROWERS (continued)

Employment

	Employment Direct	Employment Indirect	Employment Induced	Employment Total
Manufacturing	n.a.	47	19	65
Wholesaling	n.a.	92	31	123
Retailing	n.a.	35	381	417
Real Estate/ Const./Fin./Ins.	n.a.	220	212	433
Professional Services	n.a.	74	160	234
Administrative	n.a.	42	78	121
Education	n.a.	1	51	52
Health	n.a.	0	214	214
Arts, entertainment, recreation	n.a.	17	56	73
Accommodations, food services	n.a.	17	154	171
Other	n.a.	46	52	98
Farming	3,335	1,482	5	4,822
Federal	n.a.	3	5	8
State and local	n.a.	4	3	7
Total	3,335	2,081	1,422	6,838



AVERAGE ANNUAL ECONOMIC IMPACT OF GEORGIA BLUEBERRY GROWERS (continued)

Indirect Labor Income

	Labor Income Direct	Labor Income Indirect	Labor Income Induced	Labor Income Total
Manufacturing	n.a.	\$3,341,538	\$1,220,226	\$4,561,764
Wholesaling	n.a.	\$7,705,196	\$2,932,852	\$10,638,048
Retailing	n.a.	\$1,488,240	\$12,317,403	\$13,805,643
Real Estate/ Const./Fin./Ins.	n.a.	\$9,753,360	\$10,472,008	\$20,225,368
Professional Services	n.a.	\$6,533,379	\$10,389,079	\$16,922,458
Administrative	n.a.	\$3,466,616	\$5,421,865	\$8,888,481
Education	n.a.	\$42,205	\$2,222,799	\$2,265,004
Health	n.a.	\$421	\$15,761,818	\$15,762,239
Arts, entertainment, recreation	n.a.	\$974,573	\$2,314,960	\$3,289,533
Accommodations, food services	n.a.	\$407,423	\$3,447,732	\$3,855,155
Other	n.a.	\$4,832,937	\$2,968,359	\$7,801,296
Farming	\$150,451,131	\$58,014,050	\$215,722	\$208,680,903
Federal	n.a.	\$313,600	\$446,238	\$759,837
State and local	n.a.	\$393,509	\$233,335	\$626,844
Total	\$150,451,131	\$97,267,048	\$70,364,395	\$318,082,573



AVERAGE ANNUAL ECONOMIC IMPACT OF GEORGIA BLUEBERRY GROWERS (continued)

Indirect Business Taxes

	Business Taxes Direct	Business Taxes Indirect	Business Taxes Induced	Business Taxes Total
Manufacturing	n.a.	\$611,444	\$104,080	\$715,524
Wholesaling	n.a.	\$4,666,311	\$1,533,883	\$6,200,194
Retailing	n.a.	\$421,204	\$2,609,950	\$3,031,154
Real Estate/ Const./Fin./Ins.	n.a.	\$1,070,856	\$4,148,715	\$5,219,572
Professional Services	n.a.	\$340,614	\$472,701	\$813,315
Administrative	n.a.	\$68,544	\$102,866	\$171,409
Education	n.a.	\$1,926	\$93,292	\$95,217
Health	n.a.	\$6	\$297,395	\$297,401
Arts, entertainment, recreation	n.a.	\$38,486	\$202,223	\$240,709
Accommodations, food services	n.a.	\$69,936	\$663,054	\$732,990
Other	n.a.	\$1,335,649	\$644,687	\$1,980,336
Farming	\$6,564	\$1,332,698	-\$917	\$1,338,346
Federal	n.a.	-\$7,965	-\$19,929	-\$27,894
State and local	n.a.	-\$105,693	-\$48,084	-\$153,776
Total	\$6,564	\$9,844,017	\$10,803,916	\$20,654,497



TABLE THREE: AVERAGE DAILY ECONOMIC IMPACT OF GEORGIA BLUEBERRY GROWERS

Total Impact — Per Day

	Output Direct	Output Indirect	Output Induced	Output Total
Manufacturing	n.a.	\$114,396	\$21,443	\$135,840
Wholesaling	n.a.	\$83,802	\$31,463	\$115,264
Retailing	n.a.	\$10,923	\$79,393	\$90,316
Real Estate/ Const./Fin./Ins.	n.a.	\$121,967	\$202,607	\$324,574
Professional Services	n.a.	\$43,693	\$71,850	\$115,543
Administrative	n.a.	\$16,673	\$28,795	\$45,468
Education	n.a.	\$219	\$10,116	\$10,335
Health	n.a.	\$2	\$83,141	\$83,144
Arts, entertainment, recreation	n.a.	\$7,787	\$19,762	\$27,549
Accommodations, food services	n.a.	\$3,411	\$31,401	\$34,812
Other	n.a.	\$51,929	\$30,991	\$82,920
Farming	\$1,233,469	\$204,141	\$2,337	\$1,439,946
Federal	n.a.	\$1,163	\$1,838	\$3,002
State and local	n.a.	\$2,848	\$1,466	\$4,314
Total	\$1,233,469	\$662,955	\$616,603	\$2,513,028



AVERAGE DAILY ECONOMIC IMPACT OF GEORGIA BLUEBERRY GROWERS (continued)

Employment — Per Day (not applicable)

	Employment Direct	Employment Indirect	Employment Induced	Employment Total
Manufacturing	n.a.	n.a.	n.a.	n.a.
Wholesaling	n.a.	n.a.	n.a.	n.a.
Retailing	n.a.	n.a.	n.a.	n.a.
Real Estate/ Const./Fin./Ins.	n.a.	n.a.	n.a.	n.a.
Professional Services	n.a.	n.a.	n.a.	n.a.
Administrative	n.a.	n.a.	n.a.	n.a.
Education	n.a.	n.a.	n.a.	n.a.
Health	n.a.	n.a.	n.a.	n.a.
Arts, entertainment, recreation	n.a.	n.a.	n.a.	n.a.
Accommodations, food services	n.a.	n.a.	n.a.	n.a.
Other	n.a.	n.a.	n.a.	n.a.
Farming	n.a.	n.a.	n.a.	n.a.
Federal	n.a.	n.a.	n.a.	n.a.
State and local	n.a.	n.a.	n.a.	n.a.
Total	n.a.	n.a.	n.a.	n.a.



AVERAGE DAILY ECONOMIC IMPACT OF GEORGIA BLUEBERRY GROWERS (continued)

Indirect Labor Income — Per Day

	Labor Income Direct	Labor Income Indirect	Labor Income Induced	Labor Income Total
Manufacturing	n.a.	\$9,155	\$3,343	\$12,498
Wholesaling	n.a.	\$21,110	\$8,035	\$29,145
Retailing	n.a.	\$4,077	\$33,746	\$37,824
Real Estate/ Const./Fin./Ins.	n.a.	\$26,722	\$28,690	\$55,412
Professional Services	n.a.	\$17,900	\$28,463	\$46,363
Administrative	n.a.	\$9,498	\$14,854	\$24,352
Education	n.a.	\$116	\$6,090	\$6,205
Health	n.a.	\$1	\$43,183	\$43,184
Arts, entertainment, recreation	n.a.	\$2,670	\$6,342	\$9,012
Accommodations, food services	n.a.	\$1,116	\$9,446	\$10,562
Other	n.a.	\$13,241	\$8,132	\$21,373
Farming	\$412,195	\$158,943	\$591	\$571,729
Federal	n.a.	\$859	\$1,223	\$2,082
State and local	n.a.	\$1,078	\$639	\$1,717
Total	\$412,195	\$266,485	\$192,779	\$871,459



AVERAGE DAILY ECONOMIC IMPACT OF GEORGIA BLUEBERRY GROWERS (continued)

Indirect Business Taxes — Per Day

	Business Taxes Direct	Business Taxes Indirect	Business Taxes Induced	Business Taxes Total
Manufacturing	n.a.	\$1,675	\$285	\$1,960
Wholesaling	n.a.	\$12,784	\$4,202	\$16,987
Retailing	n.a.	\$1,154	\$7,151	\$8,305
Real Estate/ Const./Fin./Ins.	n.a.	\$2,934	\$11,366	\$14,300
Professional Services	n.a.	\$933	\$1,295	\$2,228
Administrative	n.a.	\$188	\$282	\$470
Education	n.a.	\$5	\$256	\$261
Health	n.a.	\$0	\$815	\$815
Arts, entertainment, recreation	n.a.	\$105	\$554	\$659
Accommodations, food services	n.a.	\$192	\$1,817	\$2,008
Other	n.a.	\$3,659	\$1,766	\$5,426
Farming	\$18	\$3,651	-\$3	\$3,667
Federal	n.a.	-\$22	-\$55	-\$76
State and local	n.a.	-\$290	-\$132	-\$421
Total	\$18	\$26,970	\$29,600	\$56,588



TABLE FOUR: POSSIBLE DIFFUSION OF ANNUAL INCREMENTAL LABOR INCOME

Total Labor Income \$318,082,573 \$871,459

Food \$41,048,884 \$112,463 Food at home \$24,973,896 \$68,422 Food away from home \$16,079,734 \$44,054 Housing \$103,996,200 \$284,921 Shelter \$60,332,224 \$165,294 Utilities, fuels, and public services \$21,191,267 \$55,058 Household operations \$8,191,742 \$22,443 Household furnishings and equipment \$10,711,912 \$29,348 Apparel and services \$8,519,221 \$23,340 Transportation \$57,394,398 \$157,245 Vehicle purchases (net outlay) \$23,260,559 \$63,728 Gasoline and other fuels \$13,820,598 \$37,865 Other vehicle expenses \$17,014,712 \$46,616 Public and other transportation \$3,260,560 \$8,933 Healthcare \$26,274,323 \$71,984 Entertainment \$13,948,742 \$38,216 Personal care products and services \$3,939,250 \$10,792 Reading \$370,195 \$1,014 Education \$5,500,712	Possible Household Spending	Annual	Per Day
Food away from home \$16,079,734 \$44,054 Housing \$103,996,200 \$284,921 Shelter \$60,332,224 \$165,294 Utilities, fuels, and public services \$21,191,267 \$58,058 Household operations \$8,191,742 \$22,443 Housekeeping supplies \$3,569,055 \$9,778 Household furnishings and equipment \$10,711,912 \$29,348 Apparel and services \$8,519,221 \$23,340 Transportation \$57,394,398 \$157,245 Vehicle purchases (net outlay) \$23,260,559 \$63,728 Gasoline and other fuels \$13,820,598 \$37,865 Other vehicle expenses \$17,014,712 \$46,616 Public and other transportation \$3,260,560 \$8,933 Healthcare \$26,274,323 \$71,984 Entertainment \$13,948,742 \$38,216 Personal care products and services \$3,939,250 \$10,792 Reading \$370,195 \$1,014 Education \$5,500,712 \$15,070 Miscellaneous \$	Food	\$41,048,884	\$112,463
Housing	Food at home	\$24,973,896	\$68,422
Shelter \$60,332,224 \$165,294 Utilities, fuels, and public services \$21,191,267 \$58,058 Household operations \$8,191,742 \$22,443 Housekeeping supplies \$3,569,055 \$9,778 Household furnishings and equipment \$10,711,912 \$29,348 Apparel and services \$8,519,221 \$23,340 Transportation \$57,394,398 \$157,245 Vehicle purchases (net outlay) \$23,260,559 \$63,728 Gasoline and other fuels \$13,820,598 \$37,865 Other vehicle expenses \$17,014,712 \$46,616 Public and other transportation \$3,260,560 \$8,933 Healthcare \$26,274,323 \$71,984 Entertainment \$13,948,742 \$38,216 Personal care products and services \$3,939,250 \$10,792 Reading \$370,195 \$1,014 Education \$5,500,712 \$15,070 Miscellaneous \$8,614,143 \$23,600 Cash contributions \$11,300,427 \$30,960 Personal insurance and pension	Food away from home	\$16,079,734	\$44,054
Utilities, fuels, and public services \$21,191,267 \$58,058 Household operations \$8,191,742 \$22,443 Housekeeping supplies \$3,569,055 \$9,778 Household furnishings and equipment \$10,711,912 \$29,348 Apparel and services \$8,519,221 \$23,340 Transportation \$57,394,398 \$157,245 Vehicle purchases (net outlay) \$23,260,559 \$63,728 Gasoline and other fuels \$13,820,598 \$37,865 Other vehicle expenses \$17,014,712 \$46,616 Public and other transportation \$3,260,560 \$8,933 Healthcare \$26,274,323 \$71,984 Entertainment \$13,948,742 \$38,216 Personal care products and services \$3,939,250 \$10,792 Reading \$370,195 \$1,014 Education \$5,500,712 \$15,070 Miscellaneous \$8,614,143 \$23,600 Cash contributions \$11,300,427 \$30,960 Personal insurance and pensions \$2,254,390 \$6,176	Housing	\$103,996,200	\$284,921
Household operations \$1,91,742 \$22,443 Housekeeping supplies \$3,569,055 \$9,778 Household furnishings and equipment \$10,711,912 \$29,348 Apparel and services \$8,519,221 \$23,340 Transportation \$57,394,398 \$157,245 Vehicle purchases (net outlay) \$23,260,559 \$63,728 Gasoline and other fuels \$13,820,598 \$37,865 Other vehicle expenses \$17,014,712 \$46,616 Public and other transportation \$3,260,560 \$8,933 Healthcare \$26,274,323 \$71,984 Entertainment \$13,948,742 \$38,216 Personal care products and services \$3,939,250 \$10,792 Reading \$370,195 \$1,014 Education \$5,500,712 \$15,070 Miscellaneous \$8,614,143 \$23,600 Cash contributions \$11,300,427 \$30,960 Personal insurance and pensions \$37,176,079 \$101,852 Life and other personal insurance \$2,254,390 \$6,176	Shelter	\$60,332,224	\$165,294
Housekeeping supplies \$3,569,055 \$9,778 Household furnishings and equipment \$10,711,912 \$29,348 Apparel and services \$8,519,221 \$23,340 Transportation \$57,394,398 \$157,245 Vehicle purchases (net outlay) \$23,260,559 \$63,728 Gasoline and other fuels \$13,820,598 \$37,865 Other vehicle expenses \$17,014,712 \$46,616 Public and other transportation \$3,260,560 \$8,933 Healthcare \$26,274,323 \$71,984 Entertainment \$13,948,742 \$38,216 Personal care products and services \$3,939,250 \$10,792 Reading \$370,195 \$1,014 Education \$5,500,712 \$15,070 Miscellaneous \$8,614,143 \$23,600 Cash contributions \$11,300,427 \$30,960 Personal insurance and pensions \$37,176,079 \$101,852 Life and other personal insurance \$2,254,390 \$6,176	Utilities, fuels, and public services	\$21,191,267	\$58,058
Household furnishings and equipment \$10,711,912 \$29,348 Apparel and services \$8,519,221 \$23,340 Transportation \$57,394,398 \$157,245 Vehicle purchases (net outlay) \$23,260,559 \$63,728 Gasoline and other fuels \$13,820,598 \$37,865 Other vehicle expenses \$17,014,712 \$46,616 Public and other transportation \$3,260,560 \$8,933 Healthcare \$26,274,323 \$71,984 Entertainment \$13,948,742 \$38,216 Personal care products and services \$3,939,250 \$10,792 Reading \$370,195 \$1,014 Education \$5,500,712 \$15,070 Miscellaneous \$8,614,143 \$23,600 Cash contributions \$11,300,427 \$30,960 Personal insurance and pensions \$37,176,079 \$101,852 Life and other personal insurance \$2,254,390 \$6,176	Household operations	\$8,191,742	\$22,443
Apparel and services \$8,519,221 \$23,340 Transportation \$57,394,398 \$157,245 Vehicle purchases (net outlay) \$23,260,559 \$63,728 Gasoline and other fuels \$13,820,598 \$37,865 Other vehicle expenses \$17,014,712 \$46,616 Public and other transportation \$3,260,560 \$8,933 Healthcare \$26,274,323 \$71,984 Entertainment \$13,948,742 \$38,216 Personal care products and services \$3,939,250 \$10,792 Reading \$370,195 \$1,014 Education \$5,500,712 \$15,070 Miscellaneous \$8,614,143 \$23,600 Cash contributions \$11,300,427 \$30,960 Personal insurance and pensions \$37,176,079 \$101,852 Life and other personal insurance \$2,254,390 \$6,176	Housekeeping supplies	\$3,569,055	\$9,778
Transportation \$57,394,398 \$157,245 Vehicle purchases (net outlay) \$23,260,559 \$63,728 Gasoline and other fuels \$13,820,598 \$37,865 Other vehicle expenses \$17,014,712 \$46,616 Public and other transportation \$3,260,560 \$8,933 Healthcare \$26,274,323 \$71,984 Entertainment \$13,948,742 \$38,216 Personal care products and services \$3,939,250 \$10,792 Reading \$370,195 \$1,014 Education \$5,500,712 \$15,070 Miscellaneous \$8,614,143 \$23,600 Cash contributions \$11,300,427 \$30,960 Personal insurance and pensions \$37,176,079 \$101,852 Life and other personal insurance \$2,254,390 \$6,176	Household furnishings and equipment	\$10,711,912	\$29,348
Vehicle purchases (net outlay) \$23,260,559 \$63,728 Gasoline and other fuels \$13,820,598 \$37,865 Other vehicle expenses \$17,014,712 \$46,616 Public and other transportation \$3,260,560 \$8,933 Healthcare \$26,274,323 \$71,984 Entertainment \$13,948,742 \$38,216 Personal care products and services \$3,939,250 \$10,792 Reading \$370,195 \$1,014 Education \$5,500,712 \$15,070 Miscellaneous \$8,614,143 \$23,600 Cash contributions \$11,300,427 \$30,960 Personal insurance and pensions \$37,176,079 \$101,852 Life and other personal insurance \$2,254,390 \$6,176	Apparel and services	\$8,519,221	\$23,340
Gasoline and other fuels \$13,820,598 \$37,865 Other vehicle expenses \$17,014,712 \$46,616 Public and other transportation \$3,260,560 \$8,933 Healthcare \$26,274,323 \$71,984 Entertainment \$13,948,742 \$38,216 Personal care products and services \$3,939,250 \$10,792 Reading \$370,195 \$1,014 Education \$5,500,712 \$15,070 Miscellaneous \$8,614,143 \$23,600 Cash contributions \$11,300,427 \$30,960 Personal insurance and pensions \$37,176,079 \$101,852 Life and other personal insurance \$2,254,390 \$6,176	Transportation	\$57,394,398	\$157,245
Other vehicle expenses \$17,014,712 \$46,616 Public and other transportation \$3,260,560 \$8,933 Healthcare \$26,274,323 \$71,984 Entertainment \$13,948,742 \$38,216 Personal care products and services \$3,939,250 \$10,792 Reading \$370,195 \$1,014 Education \$5,500,712 \$15,070 Miscellaneous \$8,614,143 \$23,600 Cash contributions \$11,300,427 \$30,960 Personal insurance and pensions \$37,176,079 \$101,852 Life and other personal insurance \$2,254,390 \$6,176	Vehicle purchases (net outlay)	\$23,260,559	\$63,728
Public and other transportation \$3,260,560 \$8,933 Healthcare \$26,274,323 \$71,984 Entertainment \$13,948,742 \$38,216 Personal care products and services \$3,939,250 \$10,792 Reading \$370,195 \$1,014 Education \$5,500,712 \$15,070 Miscellaneous \$8,614,143 \$23,600 Cash contributions \$11,300,427 \$30,960 Personal insurance and pensions \$37,176,079 \$101,852 Life and other personal insurance \$2,254,390 \$6,176	Gasoline and other fuels	\$13,820,598	\$37,865
Healthcare \$26,274,323 \$71,984 Entertainment \$13,948,742 \$38,216 Personal care products and services \$3,939,250 \$10,792 Reading \$370,195 \$1,014 Education \$5,500,712 \$15,070 Miscellaneous \$8,614,143 \$23,600 Cash contributions \$11,300,427 \$30,960 Personal insurance and pensions \$37,176,079 \$101,852 Life and other personal insurance \$2,254,390 \$6,176	Other vehicle expenses	\$17,014,712	\$46,616
Entertainment \$13,948,742 \$38,216 Personal care products and services \$3,939,250 \$10,792 Reading \$370,195 \$1,014 Education \$5,500,712 \$15,070 Miscellaneous \$8,614,143 \$23,600 Cash contributions \$11,300,427 \$30,960 Personal insurance and pensions \$37,176,079 \$101,852 Life and other personal insurance \$2,254,390 \$6,176	Public and other transportation	\$3,260,560	\$8,933
Personal care products and services \$3,939,250 \$10,792 Reading \$370,195 \$1,014 Education \$5,500,712 \$15,070 Miscellaneous \$8,614,143 \$23,600 Cash contributions \$11,300,427 \$30,960 Personal insurance and pensions \$37,176,079 \$101,852 Life and other personal insurance \$2,254,390 \$6,176	Healthcare	\$26,274,323	\$71,984
Reading \$370,195 \$1,014 Education \$5,500,712 \$15,070 Miscellaneous \$8,614,143 \$23,600 Cash contributions \$11,300,427 \$30,960 Personal insurance and pensions \$37,176,079 \$101,852 Life and other personal insurance \$2,254,390 \$6,176	Entertainment	\$13,948,742	\$38,216
Education \$5,500,712 \$15,070 Miscellaneous \$8,614,143 \$23,600 Cash contributions \$11,300,427 \$30,960 Personal insurance and pensions \$37,176,079 \$101,852 Life and other personal insurance \$2,254,390 \$6,176	Personal care products and services	\$3,939,250	\$10,792
Miscellaneous \$8,614,143 \$23,600 Cash contributions \$11,300,427 \$30,960 Personal insurance and pensions \$37,176,079 \$101,852 Life and other personal insurance \$2,254,390 \$6,176	Reading	\$370,195	\$1,014
Cash contributions \$11,300,427 \$30,960 Personal insurance and pensions \$37,176,079 \$101,852 Life and other personal insurance \$2,254,390 \$6,176	Education	\$5,500,712	\$15,070
Personal insurance and pensions\$37,176,079\$101,852Life and other personal insurance\$2,254,390\$6,176	Miscellaneous	\$8,614,143	\$23,600
Life and other personal insurance \$2,254,390 \$6,176	Cash contributions	\$11,300,427	\$30,960
	Personal insurance and pensions	\$37,176,079	\$101,852
Pensions and Social Security \$34,926,435 \$95,689	Life and other personal insurance	\$2,254,390	\$6,176
	Pensions and Social Security	\$34,926,435	\$95,689



TABLE FIVE: POSSIBLE COVERAGE OF GEORGIA BUDGETS WITH INCREMENTAL INDIRECT BUSINESS TAXES

State of Georgia	FY 2024	% of Budget Could Fund*
Department of Agriculture	\$61,743,086	33.5%
Department of Community Affairs	\$58,372,566	35.4%
Department of Community Health	\$4,755,971,201	0.4%
Department of Defense	\$12,393,076	166.7%
Department of Early Care & Learning	\$506,324,539	4.1%
Department of Economic Development	\$37,668,877	54.8%
Department of Human Services	\$985,477,516	2.1%
Department of Natural Resources	\$176,520,726	11.7%
Department of Public Health	\$400,005,720	5.2%
Department of Public Safety	\$227,396,499	9.1%
Department of Transportation	\$2,280,785,794	0.9%
Department of Veterans Services	\$27,294,616	75.7%
Dept. of Behavioral Health & Developmental Disab.	\$1,498,212,940	1.4%
Public Services Commission	\$11,872,624	174.0%
State Forestry Commission	\$50,030,321	41.3%

^{*}Percent is total of Indirect Business Taxes applied to EACH budget line. If the percentage exceeds 100.0%, it indicates the indirect business taxes would pay more than the budget.

