

Presented by:

Dennis H. Tootelian, Ph.D.

The Tootelian Company

Sacramento, California



Mr. Kasey Cronquist, President

U.S. Highbush Blueberry Council

Presented to:

Folsom, California

TABLE OF CONTENTS

Executive Summary	3
Summary Report of Findings	7
Introduction and Purpose	8
Issues of the Study	8
The Consultant	9
Methodology	10
Specialty Economic Input Model	11
IMPLAN	11
Data Sources	13
Caveats	14
Findings of The Analyses	15
Computation of Expenditures Used in the Analyses	16
Cost per Acre	17
Economic Impact of Growers	19
Total Economic Impact	19
Possible Diffusion of Labor Income Spending	21
Possible Uses for Indirect Business Taxes Generated	22
Summary and Conclusions	24
Table One: Average Annual Grower Expenditures Within Oregon	27
Table Two: Average Annual Economic Impact Of Oregon Blueberry Growers	28
Table Three: Average Daily Economic Impact Of Oregon Blueberry Growers	32
Table Four: Possible Diffusion Of Annual Incremental Labor Income	36
Table Five: Possible Coverage Of Oregon Budgets With Incremental Indirect Business Taxes	37



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 Oregon (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 Oregon 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 Oregon. 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 Oregon blueberry growers spend more than \$227.5 million annually for their acres in production and acres in development. This expenditure averages more than \$623,300 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 Oregon blueberry growers is estimated to be nearly \$467.6 million annually, or nearly \$1.3 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	\$467,590,993	\$1,281,071	
Employment	4,330	n.a.	
Labor Income	\$167,970,724	\$460,194	
Indirect Business Taxes	\$9,163,345	\$25,105	

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

- Nearly \$467.6 million in economic output, the best measure of economic impact, each year. This equates to nearly \$1.3 million each day of the year.
- About 4,330 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 \$168.0 million in labor income as a result of grower activities, or nearly \$460,200 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 \$9.2 million in indirect business taxes, not including income taxes. This equates to more than \$25,100 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 Oregon.

Overall, it is clear that blueberry growers play a significant role in strengthening the economic climate of Oregon. 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 Oregon (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 Oregon 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 Oregon 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 Oregon. 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 Oregon. 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 Oregon 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 Oregon'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 14,133 for acres in production and 1,793 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 \$15,103 per acre and the cost for acres in development was \$7,838 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 \$227.5 million in an average year, or more than \$623,300 per day. Average annual expenditures for acres in production are nearly \$213.5 million and nearly \$14.1 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	14,133	\$15,103	\$213,456,792	\$584,813
Acres in Development	1,793	\$7,838	\$14,051,992	\$38,499
Total Spending	n.a.	n.a.	\$227,508,785	\$623,312

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 Oregon. 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 Oregon 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	\$467,590,993	\$1,281,071
Employment	4,330	n.a.
Labor Income	\$167,970,724	\$460,194
Indirect Business Taxes	\$9,163,345	\$25,105

Output. The Output, or the amount of overall business activity created, is projected to total nearly \$467.6 million, equating to nearly \$1.3 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 48.7% of this impact is caused by grower spending, and the remainder (51.3%) is the result of increased business activity.

As shown below, the industries generating the largest increases in overall business activity were farming (\$278.4 million), real estate/construction/finance/insurance (\$59.9 million), wholesaling (\$21.7 million), professional services (\$20.0 million), and health (\$16.6 million).

Industry	Output
Farming	\$278,361,584
Real Estate, Const., Fin., Ins.	\$59,857,740
Manufacturing	\$21,695,933
Professional Services	\$19,967,937
Wholesaling	\$16,608,286



Job Creation. About 4,330 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 55.4% of this is the result of grower operations and the rest (44.6%) 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 (3,345 jobs), real estate/construction/finance/insurance (199 jobs), retailing (194 jobs), professional services (120 jobs), and health (110 jobs).

Industry	Employment
Farming	3,345
Real Estate, Const., Fin., Ins.	199
Retailing	194
Professional Services	120
Health	110

Labor Income. Labor Income resulting from the additional people employed and current employees earning more is projected to be nearly \$168.0 million, equating to nearly \$460,200 each day of the year. About 38.9% of this income is the direct result of spending by growers, while 61.1% 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 (\$110.3 million), real estate/construction/finance/insurance (\$10.2 million), health, (\$9.0 million), professional services (\$8.3 million), and retailing (\$8.0 million).

Industry	Labor Income
Farming	\$110,335,139
Real Estate, Const., Fin., Ins.	\$10,223,508
Health	\$9,041,039
Professional Services	\$8,278,150
Retailing	\$8,014,617



Indirect Business Taxes. Finally, nearly \$9.2 million in additional indirect business taxes are created from the increased business activity, equating to more than \$25,100 each day of the year. These tax dollars are generated from businesses benefiting from the heightened economic activity and the increased employment. About 0.6% of these indirect business taxes are the direct result of spending by growers, while 99.4% 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 Oregon.

As shown below, the industries generating the largest increases in indirect business taxes were real estate/construction/finance/insurance (\$2.8 million), wholesaling (\$2.4 million), farming (\$1.7 million), retailing (\$500,150), and professional services (\$380,000).

Industry	Business Taxes
Real Estate, Const., Fin., Ins.	\$2,771,746
Wholesaling	\$2,410,842
Farming	\$1,672,873
Retailing	\$500,145
Professional Services	\$379,876

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 Oregon, 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	\$21,441,707	\$58,744
Food at home	\$12,563,515	\$34,421
Food away from home	\$8,878,192	\$24,324
Housing	\$57,782,069	\$158,307
Shelter & utilities	\$45,865,476	\$125,659
Household operations & supplies	\$5,929,156	\$16,244
Household furnishings & equipment	\$5,989,380	\$16,409
Apparel and services	\$4,437,153	\$12,157
Transportation	\$27,477,712	\$75,281
Vehicle purchases (net outlay)	\$10,362,423	\$28,390
Public and other transportation	\$2,405,077	\$6,589
Other	\$14,710,212	\$40,302
Healthcare	\$12,019,556	\$32,930
Entertainment	\$8,233,211	\$22,557
Personal care products & services	\$2,016,535	\$5,525
Education	\$2,688,713	\$7,366

As shown above, the greatest amount of spending was for housing (\$57.8 million), transportation (\$27.5 million), and food (\$21.4 million). These three account for 63.5% 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 Oregon'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 Oregon. 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.

	33% of	
State of Oregon	2024-25 State Funds	% of Budget Could Fund*
Department of Agriculture	\$10,510,989	87.2%
Department of Business Development	\$44,986,755	20.4%
Department of Emergency Management	\$96,130,353	9.5%
Department of Environmental Quality	\$24,882,942	36.8%
Department of Fish & Wildlife	\$20,713,078	44.2%
Department of Forestry	\$56,373,444	16.3%
Department of Land Conservation & Development	\$7,308,116	125.4%
Department of Parks & Recreation	\$3,023,647	303.1%
Department of State Fire Marshall	\$28,516,056	32.1%
Department of State Police	\$145,345,187	6.3%
Department of Veterans' Affairs	\$3,164,140	289.6%
Military Department	\$13,660,696	67.1%



SUMMARY AND CONCLUSIONS

Economic impact analyses were conducted for the total expenditures by growers in Oregon. 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 Oregon blueberry growers spend more than \$227.5 million annually for their acres in production and acres in development. This expenditure averages more than \$623,300 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 Oregon blueberry growers is estimated to be nearly \$467.6 million annually, or nearly \$1.3 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	\$467,590,993	\$1,281,071
Employment	4,330	n.a.
Labor Income	\$167,970,724	\$460,194
Indirect Business Taxes	\$9,163,345	\$25,105

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

- Nearly \$467.6 million in economic output, the best measure of economic impact, each year. This equates to nearly \$1.3 million each day of the year.
- About 4,330 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 \$168.0 million in labor income as a result of grower activities, or nearly \$460,200 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 \$9.2 million in indirect business taxes, not including income taxes. This equates to more than \$25,100 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 Oregon.

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



TABLE ONE: AVERAGE ANNUAL GROWER EXPENDITURES WITHIN OREGON

Total Impact

Grower Operations	Average Acres	Average Cost Per Acres	Net Expenditures
Acres in Production	14,133	\$15,103	\$213,456,792
Acres in Development	1,793	\$7,838	\$14,051,992
Total Spending	n.a.	n.a.	\$227,508,785



TABLE TWO: AVERAGE ANNUAL ECONOMIC IMPACT OF OREGON BLUEBERRY GROWERS

Total Impact

	Output Direct	Output Indirect	Output Induced	Output Total
Manufacturing	n.a.	\$13,021,677	\$3,095,955	\$16,117,631
Wholesaling	n.a.	\$16,696,954	\$4,998,979	\$21,695,933
Retailing	n.a.	\$1,845,080	\$14,303,214	\$16,148,294
Real Estate/ Const./Fin./Ins	n.a.	\$23,976,674	\$35,881,066	\$59,857,740
Professional Services	n.a.	\$7,874,197	\$12,093,740	\$19,967,937
Administrative	n.a.	\$2,883,262	\$4,716,735	\$7,599,997
Education	n.a.	\$33,637	\$1,372,875	\$1,406,511
Health	n.a.	\$445	\$16,607,841	\$16,608,286
Arts, entertainment, recreation	n.a.	\$989,250	\$3,440,680	\$4,429,930
Accommodations, food services	n.a.	\$696,393	\$5,799,626	\$6,496,018
Other	n.a.	\$5,774,957	\$6,278,497	\$12,053,454
Farming	\$227,508,785	\$50,324,349	\$528,450	\$278,361,584
Federal	n.a.	\$905,430	\$750,394	\$1,655,824
State and local	n.a.	\$3,080,151	\$2,111,701	\$5,191,852
Total	\$227,508,785	\$128,102,455	\$111,979,752	\$467,590,993



AVERAGE ANNUAL ECONOMIC IMPACT OF OREGON BLUEBERRY GROWERS (continued)

Employment

	Employment Direct	Employment Indirect	Employment Induced	Employment Total
Manufacturing	n.a.	19	9	28
Wholesaling	n.a.	56	16	72
Retailing	n.a.	16	178	194
Real Estate/ Const./Fin./Ins.	n.a.	109	90	199
Professional Services	n.a.	39	81	120
Administrative	n.a.	20	33	53
Education	n.a.	0	23	23
Health	n.a.	0	110	110
Arts, entertainment, recreation	n.a.	8	32	40
Accommodations, food services	n.a.	9	72	81
Other	n.a.	14	33	47
Farming	2,400	940	5	3,345
Federal	n.a.	2	2	4
State and local	n.a.	7	6	13
Total	2,400	1,239	690	4,330



AVERAGE ANNUAL ECONOMIC IMPACT OF OREGON BLUEBERRY GROWERS (continued)

Indirect Labor Income

	Labor Income Direct	Labor Income Indirect	Labor Income Induced	Labor Income Total
Manufacturing	n.a.	\$1,349,484	\$515,696	\$1,865,180
Wholesaling	n.a.	\$4,831,010	\$1,459,317	\$6,290,327
Retailing	n.a.	\$849,134	\$7,165,483	\$8,014,617
Real Estate/ Const./Fin./Ins.	n.a.	\$5,632,104	\$4,591,404	\$10,223,508
Professional Services	n.a.	\$3,368,523	\$4,909,628	\$8,278,150
Administrative	n.a.	\$1,650,528	\$2,452,545	\$4,103,074
Education	n.a.	\$15,814	\$805,884	\$821,697
Health	n.a.	\$239	\$9,040,800	\$9,041,039
Arts, entertainment, recreation	n.a.	\$396,494	\$1,239,462	\$1,635,955
Accommodations, food services	n.a.	\$267,902	\$2,087,243	\$2,355,144
Other	n.a.	\$1,324,806	\$1,954,108	\$3,278,913
Farming	\$65,344,623	\$44,822,161	\$168,355	\$110,335,139
Federal	n.a.	\$237,997	\$245,534	\$483,531
State and local	n.a.	\$697,006	\$547,442	\$1,244,449
Total	\$65,344,623	\$65,443,200	\$37,182,901	\$167,970,724



AVERAGE ANNUAL ECONOMIC IMPACT OF OREGON BLUEBERRY GROWERS (continued)

Indirect Business Taxes

	Business Taxes Direct	Business Taxes Indirect	Business Taxes Induced	Business Taxes Total
Manufacturing	n.a.	\$180,007	\$46,570	\$226,578
Wholesaling	n.a.	\$1,880,511	\$530,332	\$2,410,842
Retailing	n.a.	\$89,102	\$411,043	\$500,145
Real Estate/ Const./Fin./Ins.	n.a.	\$470,706	\$2,301,040	\$2,771,746
Professional Services	n.a.	\$164,404	\$215,472	\$379,876
Administrative	n.a.	\$35,971	\$58,249	\$94,220
Education	n.a.	\$941	\$36,102	\$37,043
Health	n.a.	\$5	\$285,291	\$285,296
Arts, entertainment, recreation	n.a.	\$19,778	\$135,178	\$154,956
Accommodations, food services	n.a.	\$15,321	\$133,825	\$149,146
Other	n.a.	\$373,678	\$323,714	\$697,392
Farming	\$51,047	\$1,619,154	\$2,671	\$1,672,873
Federal	n.a.	-\$2,803	-\$8,339	-\$11,142
State and local	n.a.	-\$126,218	-\$79,409	-\$205,627
Total	\$51,047	\$4,720,557	\$4,391,741	\$9,163,345



TABLE THREE: AVERAGE DAILY ECONOMIC IMPACT OF OREGON BLUEBERRY GROWERS

Total Impact — Per Day

	Output Direct	Output Indirect	Output Induced	Output Total
Manufacturing	n.a.	\$35,676	\$8,482	\$44,158
Wholesaling	n.a.	\$45,745	\$13,696	\$59,441
Retailing	n.a.	\$5,055	\$39,187	\$44,242
Real Estate/ Const./Fin./Ins.	n.a.	\$65,690	\$98,304	\$163,994
Professional Services	n.a.	\$21,573	\$33,134	\$54,707
Administrative	n.a.	\$7,899	\$12,923	\$20,822
Education	n.a.	\$92	\$3,761	\$3,853
Health	n.a.	\$1	\$45,501	\$45,502
Arts, entertainment, recreation	n.a.	\$2,710	\$9,427	\$12,137
Accommodations, food services	n.a.	\$1,908	\$15,889	\$17,797
Other	n.a.	\$15,822	\$17,201	\$33,023
Farming	\$623,312	\$137,875	\$1,448	\$762,634
Federal	\$0	\$2,481	\$2,056	\$4,537
State and local	\$0	\$8,439	\$5,785	\$14,224
Total	\$623,312	\$350,966	\$306,794	\$1,281,071



AVERAGE DAILY ECONOMIC IMPACT OF OREGON 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 OREGON BLUEBERRY GROWERS (continued)

Indirect Labor Income — Per Day

	Labor Income Direct	Labor Income Indirect	Labor Income Induced	Labor Income Total
Manufacturing	n.a.	\$3,697	\$1,413	\$5,110
Wholesaling	n.a.	\$13,236	\$3,998	\$17,234
Retailing	n.a.	\$2,326	\$19,631	\$21,958
Real Estate/ Const./Fin./Ins.	n.a.	\$15,430	\$12,579	\$28,010
Professional Services	n.a.	\$9,229	\$13,451	\$22,680
Administrative	n.a.	\$4,522	\$6,719	\$11,241
Education	n.a.	\$43	\$2,208	\$2,251
Health	n.a.	\$1	\$24,769	\$24,770
Arts, entertainment, recreation	n.a.	\$1,086	\$3,396	\$4,482
Accommodations, food services	n.a.	\$734	\$5,718	\$6,452
Other	n.a.	\$3,630	\$5,354	\$8,983
Farming	\$179,026	\$122,800	\$461	\$302,288
Federal	n.a.	\$652	\$673	\$1,325
State and local	n.a.	\$1,910	\$1,500	\$3,409
Total	\$179,026	\$179,296	\$101,871	\$460,194



AVERAGE DAILY ECONOMIC IMPACT OF OREGON BLUEBERRY GROWERS (continued)

Indirect Business Taxes — Per Day

	Business Taxes Direct	Business Taxes Indirect	Business Taxes Induced	Business Taxes Total
Manufacturing	n.a.	\$493	\$128	\$621
Wholesaling	n.a.	\$5,152	\$1,453	\$6,605
Retailing	n.a.	\$244	\$1,126	\$1,370
Real Estate/ Const./Fin./Ins.	n.a.	\$1,290	\$6,304	\$7,594
Professional Services	n.a.	\$450	\$590	\$1,041
Administrative	n.a.	\$99	\$160	\$258
Education	n.a.	\$3	\$99	\$101
Health	n.a.	\$0	\$782	\$782
Arts, entertainment, recreation	n.a.	\$54	\$370	\$425
Accommodations, food services	n.a.	\$42	\$367	\$409
Other	n.a.	\$1,024	\$887	\$1,911
Farming	\$140	\$4,436	\$7	\$4,583
Federal	n.a.	-\$8	-\$23	-\$31
State and local	n.a.	-\$346	-\$218	-\$563
Total	\$140	\$12,933	\$12,032	\$25,105



TABLE FOUR: POSSIBLE DIFFUSION OF ANNUAL INCREMENTAL LABOR INCOME

Total Labor Income \$167,970,724 \$460,194

Food \$21,441,707 \$58,744 Food at home \$12,563,515 \$34,421 Food away from home \$8,878,192 \$24,324 Housing \$57,782,069 \$158,307 Shelter \$36,892,092 \$101,074 Utilities, fuels, and public services \$8,973,385 \$24,585 Household operations \$4,334,189 \$11,874 Household furnishings and equipment \$5,989,380 \$16,409 Apparel and services \$4,437,153 \$12,157 Transportation \$27,477,712 \$75,281 Vehicle purchases (net outlay) \$10,362,423 \$28,390 Gasoline and other fuels \$6,447,860 \$17,665 Other vehicle expenses \$8,246,810 \$22,594 Public and other transportation \$2,405,077 \$6,589 Healthcare \$12,019,556 \$32,930 Entertainment \$8,233,211 \$22,557 Personal care products and services \$2,016,535 \$5,525 Reading \$318,605 \$873 Education \$2,688,713 <td< th=""><th>Possible Household Spending</th><th>Annual</th><th>Per Day</th></td<>	Possible Household Spending	Annual	Per Day
Food away from home \$8,878,192 \$24,324	Food	\$21,441,707	\$58,744
Housing	Food at home	\$12,563,515	\$34,421
Shelter \$36,892,092 \$101,074 Utilities, fuels, and public services \$8,973,385 \$24,585 Household operations \$4,334,189 \$11,874 Housekeeping supplies \$1,594,966 \$4,370 Household furnishings and equipment \$5,989,380 \$16,409 Apparel and services \$4,437,153 \$12,157 Transportation \$27,477,712 \$75,281 Vehicle purchases (net outlay) \$10,362,423 \$28,390 Gasoline and other fuels \$6,447,860 \$17,665 Other vehicle expenses \$8,246,810 \$22,594 Public and other transportation \$2,405,077 \$6,589 Healthcare \$12,019,556 \$32,930 Entertainment \$8,233,211 \$22,557 Personal care products and services \$2,016,535 \$5,525 Reading \$318,605 \$873 Education \$2,688,713 \$7,366 Miscellaneous \$4,631,424 \$12,689 Cash contributions \$6,599,391 \$18,081 Personal insurance and pensions	Food away from home	\$8,878,192	\$24,324
Utilities, fuels, and public services \$8,973,385 \$24,585 Household operations \$4,334,189 \$11,874 Housekeeping supplies \$1,594,966 \$4,370 Household furnishings and equipment \$5,989,380 \$16,409 Apparel and services \$4,437,153 \$12,157 Transportation \$27,477,712 \$75,281 Vehicle purchases (net outlay) \$10,362,423 \$28,390 Gasoline and other fuels \$6,447,860 \$17,665 Other vehicle expenses \$8,246,810 \$22,594 Public and other transportation \$2,405,077 \$6,589 Healthcare \$12,019,556 \$32,930 Entertainment \$8,233,211 \$22,557 Personal care products and services \$2,016,535 \$5,525 Reading \$318,605 \$873 Education \$2,688,713 \$7,366 Miscellaneous \$4,631,424 \$12,689 Cash contributions \$6,599,391 \$18,081 Personal insurance and pensions \$20,324,648 \$55,684 Life and other per	Housing	\$57,782,069	\$158,307
Household operations	Shelter	\$36,892,092	\$101,074
Housekeeping supplies	Utilities, fuels, and public services	\$8,973,385	\$24,585
Household furnishings and equipment \$5,989,380 \$16,409	Household operations	\$4,334,189	\$11,874
Apparel and services \$4,437,153 \$12,157 Transportation \$27,477,712 \$75,281 Vehicle purchases (net outlay) \$10,362,423 \$28,390 Gasoline and other fuels \$6,447,860 \$17,665 Other vehicle expenses \$8,246,810 \$22,594 Public and other transportation \$2,405,077 \$6,589 Healthcare \$12,019,556 \$32,930 Entertainment \$8,233,211 \$22,557 Personal care products and services \$2,016,535 \$5,525 Reading \$318,605 \$873 Education \$2,688,713 \$7,366 Miscellaneous \$4,631,424 \$12,689 Cash contributions \$6,599,391 \$18,081 Personal insurance and pensions \$20,324,648 \$55,684 Life and other personal insurance \$1,169,512 \$3,204	Housekeeping supplies	\$1,594,966	\$4,370
Transportation \$27,477,712 \$75,281 Vehicle purchases (net outlay) \$10,362,423 \$28,390 Gasoline and other fuels \$6,447,860 \$17,665 Other vehicle expenses \$8,246,810 \$22,594 Public and other transportation \$2,405,077 \$6,589 Healthcare \$12,019,556 \$32,930 Entertainment \$8,233,211 \$22,557 Personal care products and services \$2,016,535 \$5,525 Reading \$318,605 \$873 Education \$2,688,713 \$7,366 Miscellaneous \$4,631,424 \$12,689 Cash contributions \$6,599,391 \$18,081 Personal insurance and pensions \$20,324,648 \$55,684 Life and other personal insurance \$1,169,512 \$3,204	Household furnishings and equipment	\$5,989,380	\$16,409
Vehicle purchases (net outlay) \$10,362,423 \$28,390 Gasoline and other fuels \$6,447,860 \$17,665 Other vehicle expenses \$8,246,810 \$22,594 Public and other transportation \$2,405,077 \$6,589 Healthcare \$12,019,556 \$32,930 Entertainment \$8,233,211 \$22,557 Personal care products and services \$2,016,535 \$5,525 Reading \$318,605 \$873 Education \$2,688,713 \$7,366 Miscellaneous \$4,631,424 \$12,689 Cash contributions \$6,599,391 \$18,081 Personal insurance and pensions \$20,324,648 \$55,684 Life and other personal insurance \$1,169,512 \$3,204	Apparel and services	\$4,437,153	\$12,157
Gasoline and other fuels \$6,447,860 \$17,665 Other vehicle expenses \$8,246,810 \$22,594 Public and other transportation \$2,405,077 \$6,589 Healthcare \$12,019,556 \$32,930 Entertainment \$8,233,211 \$22,557 Personal care products and services \$2,016,535 \$5,525 Reading \$318,605 \$873 Education \$2,688,713 \$7,366 Miscellaneous \$4,631,424 \$12,689 Cash contributions \$6,599,391 \$18,081 Personal insurance and pensions \$20,324,648 \$55,684 Life and other personal insurance \$1,169,512 \$3,204	Transportation	\$27,477,712	\$75,281
Other vehicle expenses \$8,246,810 \$22,594 Public and other transportation \$2,405,077 \$6,589 Healthcare \$12,019,556 \$32,930 Entertainment \$8,233,211 \$22,557 Personal care products and services \$2,016,535 \$5,525 Reading \$318,605 \$873 Education \$2,688,713 \$7,366 Miscellaneous \$4,631,424 \$12,689 Cash contributions \$6,599,391 \$18,081 Personal insurance and pensions \$20,324,648 \$55,684 Life and other personal insurance \$1,169,512 \$3,204	Vehicle purchases (net outlay)	\$10,362,423	\$28,390
Public and other transportation \$2,405,077 \$6,589 Healthcare \$12,019,556 \$32,930 Entertainment \$8,233,211 \$22,557 Personal care products and services \$2,016,535 \$5,525 Reading \$318,605 \$873 Education \$2,688,713 \$7,366 Miscellaneous \$4,631,424 \$12,689 Cash contributions \$6,599,391 \$18,081 Personal insurance and pensions \$20,324,648 \$55,684 Life and other personal insurance \$1,169,512 \$3,204	Gasoline and other fuels	\$6,447,860	\$17,665
Healthcare \$12,019,556 \$32,930 Entertainment \$8,233,211 \$22,557 Personal care products and services \$2,016,535 \$5,525 Reading \$318,605 \$873 Education \$2,688,713 \$7,366 Miscellaneous \$4,631,424 \$12,689 Cash contributions \$6,599,391 \$18,081 Personal insurance and pensions \$20,324,648 \$55,684 Life and other personal insurance \$1,169,512 \$3,204	Other vehicle expenses	\$8,246,810	\$22,594
Entertainment \$8,233,211 \$22,557 Personal care products and services \$2,016,535 \$5,525 Reading \$318,605 \$873 Education \$2,688,713 \$7,366 Miscellaneous \$4,631,424 \$12,689 Cash contributions \$6,599,391 \$18,081 Personal insurance and pensions \$20,324,648 \$55,684 Life and other personal insurance \$1,169,512 \$3,204	Public and other transportation	\$2,405,077	\$6,589
Personal care products and services \$2,016,535 \$5,525 Reading \$318,605 \$873 Education \$2,688,713 \$7,366 Miscellaneous \$4,631,424 \$12,689 Cash contributions \$6,599,391 \$18,081 Personal insurance and pensions \$20,324,648 \$55,684 Life and other personal insurance \$1,169,512 \$3,204	Healthcare	\$12,019,556	\$32,930
Reading \$318,605 \$873 Education \$2,688,713 \$7,366 Miscellaneous \$4,631,424 \$12,689 Cash contributions \$6,599,391 \$18,081 Personal insurance and pensions \$20,324,648 \$55,684 Life and other personal insurance \$1,169,512 \$3,204	Entertainment	\$8,233,211	\$22,557
Education \$2,688,713 \$7,366 Miscellaneous \$4,631,424 \$12,689 Cash contributions \$6,599,391 \$18,081 Personal insurance and pensions \$20,324,648 \$55,684 Life and other personal insurance \$1,169,512 \$3,204	Personal care products and services	\$2,016,535	\$5,525
Miscellaneous \$4,631,424 \$12,689 Cash contributions \$6,599,391 \$18,081 Personal insurance and pensions \$20,324,648 \$55,684 Life and other personal insurance \$1,169,512 \$3,204	Reading	\$318,605	\$873
Cash contributions \$6,599,391 \$18,081 Personal insurance and pensions \$20,324,648 \$55,684 Life and other personal insurance \$1,169,512 \$3,204	Education	\$2,688,713	\$7,366
Personal insurance and pensions\$20,324,648\$55,684Life and other personal insurance\$1,169,512\$3,204	Miscellaneous	\$4,631,424	\$12,689
Life and other personal insurance \$1,169,512 \$3,204	Cash contributions	\$6,599,391	\$18,081
	Personal insurance and pensions	\$20,324,648	\$55,684
Pensions and Social Security \$19,155,136 \$52,480	Life and other personal insurance	\$1,169,512	\$3,204
	Pensions and Social Security	\$19,155,136	\$52,480



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

	33% of	
State of Oregon	2024-25 State Funds	% of Budget Could Fund*
Commission for the Blind	\$2,418,585	378.9%
Department of Agriculture	\$10,510,989	87.2%
Department of Business Development	\$44,986,755	20.4%
Department of Early Learning & Care	\$186,742,591	4.9%
Department of Education	\$3,192,765,294	0.3%
Department of Emergency Management	\$96,130,353	9.5%
Department of Energy	\$2,608,410	351.3%
Department of Environmental Quality	\$24,882,942	36.8%
Department of Fish & Wildlife	\$20,713,078	44.2%
Department of Forestry	\$56,373,444	16.3%
Department of Housing & Community Services	\$225,759,228	4.1%
Department of Human Services	\$1,781,272,461	0.5%
Department of Land Conservation & Development	\$7,308,116	125.4%
Department of Natural Resources	\$152,385,758	6.0%
Department of Parks & Recreation	\$3,023,647	303.1%
Department of State Fire Marshall	\$28,516,056	32.1%
Department of State Police	\$145,345,187	6.3%
Department of Transportation	\$5,643,427	162.4%
Department of Veterans' Affairs	\$3,164,140	289.6%
Department of Water Resources	\$21,350,181	42.9%
Military Department	\$13,660,696	67.1%
Oregon Health authority	\$1,805,163,849	0.5%

^{*}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.

