THE ECONOMIC IMPACT OF AVOCADO GROWERS IN MONTEREY COUNTY

Presented to:

Mr. Tom Bellamore President California Avocado Commission Irvine, California

Presented by:

Dennis H. Tootelian, Ph.D. Tootelian & Associates Sacramento, California

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TABLE OF CONTENTS

EXECUTIVE SUMMARY	3
INTRODUCTION AND PURPOSE	
Issues of the Study	
The Tootelian Company	6
METHODOLOGY	7
Specialty Feeder Model	
IMPLAN	
Data Sources	9
FINDINGS OF THE ANALYSES	10
Computation of Annual Grower Net Expenditures	10
Annual Economic Impact of Growers	12
Growers Annual Economic Impact	12
Possible Diffusion of Annual Labor Income Spending	
Possible Uses for Annual Business Taxes Created	14
CONCLUSIONS	15
TABLE ONE: ANNUAL ECONOMIC IMPACT OF GROWERS	16
TABLE TWO: AVERAGE DAILY ECONOMIC IMPACT OF GROWERS	18
TABLE THREE: POSSIBLE DIFFUSION OF LABOR INCOME	20
TABLE FOUR: POSSIBLE USES FOR INDIRECT BUSINESS TAXES	21

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EXECUTIVE SUMMARY

INTRODUCTION AND PURPOSE

In August 2020, the California Avocado Commission (hereafter, CAC) retained The Tootelian Company to assist it in conducting a study to assess the economic impact avocado growers have within Monterey County (hereafter, County). The impact includes the increased business activity created by growing and harvesting avocados, the jobs created as a result of this growth in activity throughout the various sectors of the County's economy, the increased income generated by those employed, and the incremental business taxes created.

The specific issues addressed in this study of avocado growers in Monterey County are:

- ➤ How much business activity do they create and how could the overall impact be diffused through the various sectors of the County's economy?
- ➤ How many jobs do they create on an annual full-time-equivalent basis?
- ➤ How much labor income do they create, and how could that income be diffused within the County's economy due to increased household spending?
- ➤ How much do they generate in indirect business taxes, and how could those tax dollars be used to help fund County programs to serve residents?

Two models were used in this analysis. A specially designed model was created to estimate expenditure levels by growers within the County. Then, IMPLAN was used to compute the overall economic impacts of avocado growers.

FINDINGS AND CONCLUSIONS

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

The Output, Employment, Labor Income, and Indirect Business Taxes generated by avocado growers are summarized below. Growers spend more than \$1.6 million annually in Monterey County. This equates to nearly \$4,500 per day.

Grower Impact	Total	Total Per Day
Output	\$2,824,051	\$7,737
Employment	27	n.a.
Labor Income	\$1,488,091	\$4,077
Indirect Business Taxes	\$75,804	\$208

Based on the findings of this study, avocado growers have a significant impact on Monterey County's economy. Overall, growers create:

- More than \$2.8 million annually in economic output, the best measure of economic activity, each year. This equates to nearly \$7,750 each day of the year.
- Nearly 30 jobs on a full-time equivalent basis as a result of their business activities and the multiplier effect created by the fact that their purchases create jobs in a variety of farming and non-farming economic sectors.
- Nearly \$1.5 million annually in labor income as a result of their business activities, or nearly \$4,100 every day of the year. These are dollars going to wages and salaries for new employment as well as expanded incomes to those already in the labor force (e.g., overtime pay). These dollars are diffused throughout Monterey County's economy as the funds are spent for a wide array of goods and services.
- ➤ More than \$75,800 annually in indirect business taxes, or nearly \$210 per day, not including income taxes. Depending on how these funds are used, they can help pay for portions of various Monterey County programs that further benefit the people residing in its communities.

Overall, these findings demonstrate the important role avocado growers play in strengthening the economic climate of Monterey County. They generate significant amounts of economic activity, create a substantial number of jobs on a full-time-equivalent basis, create large amounts of labor income that can be spent by households, and generate considerable indirect business taxes that can help fund County programs. Avocado grower activities create benefits that are diffused throughout Monterey County's economy, touching nearly every aspect of life in the County.

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SUMMARY REPORT OF FINDINGS

INTRODUCTION AND PURPOSE

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Issues of the Study

The specific issues addressed in this study of avocado growers in Monterey County are:

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- ➤ How much labor income do they create, and how could that income be diffused within the County's economy due to increased household spending?
- ➤ How much do they generate in indirect business taxes, and how could those tax dollars be used to help fund County programs to serve residents?

The Tootelian Company

The Tootelian Company is a Sacramento, California-based marketing and management consulting firm. It specializes in performing economic impact and cost-benefit studies, conducting market research, and assisting its clients with their business and marketing plans. The consultant 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 Administration 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 on a wide variety of subjects, but mostly for various agricultural crops. Other such studies include ones for the Chicago 2016 Olympic Games Committee, McDonald's Corporation, and other trade and professional associations.

Dr. Tootelian also has published approximately one hundred articles dealing with all facets of business, and has co-authored six texts on marketing and small business 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 <u>Journal of Marketing</u>, <u>Journal of Retailing</u>, <u>Journal of Business Research</u>, <u>Journal of Food Products Marketing</u>, <u>Journal of Health Care Marketing</u>, and <u>Journal of Professional Services Marketing</u>. Results of some of his applied research and writing have appeared in <u>The Congressional Record</u>, <u>The Wall Street Journal</u>, <u>Forbes</u>, <u>The Kiplinger Report</u>, <u>USA Today</u>, <u>ABC National News website</u>, and even <u>The National Enquirer</u>.

In addition to conducting economic impact studies in the agricultural sector, Dr. Tootelian has worked in a consulting capacity with Fortune 500 companies (e.g., McDonald's Corporation, Merck, Johnson & Johnson, Nestles U.S.A., McKesson Corporation), not-for-profit organizations (e.g., California Pharmacists Association, California Dental Association), and federal and County governmental agencies (e.g., California Department of Food and Agriculture, Centers for Disease Control and Prevention, California Environmental Protection Agency, and California Department of Parks and Recreation).

METHODOLOGY

Two models were used in this analysis. A specially designed model was created to estimate expenditure levels by growers within the County. Then, IMPLAN was used to compute the overall economic impacts of avocado growers.

Specialty Feeder Model

Economic impact is a function of expenditures within a defined geographic area. To measure the level of expenditures, the analyst developed a "feeder" economic model that specifically addressed the variables and the critical issues associated with growing avocados in Monterey County. This model not only provided the data used in the IMPLAN analysis, but it illustrated in more detailed ways how the economic impact of growers is diffused throughout the County's economy.

Because agricultural revenues and expenditures can fluctuate significantly from year-to-year, an "average year" was created based on historical and industrial operating statistics from 2018 to 2020. It is important to note, therefore, that the economic impact of avocado crops could vary on an annual basis depending on grower spending.

The feeder model considered a wide variety of variables. These included expenses related to growing and harvesting avocados on bearing acreage, costs associated with developing non-bearing acreage for future avocado production, costs of moving avocados from the field to consumer markets, etc.

IMPLAN

The model used to compute the economic impact was IMPLAN. It provides modeling based on data and tools to assess economic impacts at the national, state, county, and local levels. IMPLAN is widely used, and some of its clients include 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 full range of economic impacts includes direct, indirect, and induced benefits:

- *Direct benefits* consist of economic activity contained exclusively within the agricultural sector. This includes all expenditures made and all 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 retail purchases of food and clothing, housing, entertainment, 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 activity and total 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 reflect the increased economic activity that comes from sales being generated, and expenses being incurred, by growers. For example, when a grower plants, cultivates, and harvests avocados, 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 most economic sectors in the County. The net effect is that sales dollars are recycled in the County through this process of sales requiring additional purchases and employment, which result in sales for other firms who must use that money to make their own purchases and hire people.

Data Sources

Industry statistics were used to determine average expenses and some other operating data for this study. However, to ensure that this information was appropriate, the CAC was asked to verify that the statistics being used were reasonable for growers. Information from economic impact studies conducted by the analyst for other specialty crop organizations also was used in some instances and verified as appropriate.

Data used to assess the economic impact came from a variety of sources. These include:

- California Avocado Commission.
- California Department of Food and Agriculture's California Agricultural Statistics Review 2018-2019.
- Census of Agriculture, U.S. Department of Agriculture.
- Census of Business, United States Bureau of the Census.
- Economic Research Unit, Federal Reserve Bank of St. Louis.
- Monterey County's official website.
- United States Bureau of Labor Statistics.
- University of California, Davis Agriculture and Natural Resources. Publications:
 - Avocado Sample Establishment and Production Costs and Profitability Analysis for San Diego and Riverside Counties, Conventional Production Practices, 2011
 - Avocado Sample Establishment and Production Costs and Profitability Analysis for San Diego and Riverside Counties, Organic Production Practices, 2011
 - Avocado Sample Establishment and Production Costs and Profitability Analysis for Ventura, Santa Barbara and San Luis Obispo Counties, Conventional Production Practices, 2011
 - Avocado Sample Establishment and Production Costs and Profitability Analysis for Ventura, Santa Barbara and San Luis Obispo Counties, Organic Production Practices, 2011
 - Avocado Sample Establishment and Production Costs and Profitability Analysis for San Diego and Riverside Counties, 2001
 - Avocado Sample Establishment and Production Costs and Profitability Analysis for Ventura and Santa Barbara Counties, 2001

FINDINGS OF THE ANALYSES

The findings of this study are presented in two sections: Computation of Expenditures Used in the Analyses, and Economic Impact of Growers. Tabled data is presented at the end of this Summary Report.

Computation of Annual Grower Net Expenditures

Grower expenditures were computed as the average cost per acre multiplied by the number of acres. This was calculated individually for acres in production and acres in development.

Grower Expenditures

The numbers of acres in production and in development in Monterey County were obtained from the CAC. The number of acres in production and in development for the three years of 2018, 2019, and 2020 were averaged and then used in calculating average cost per acre. The average number of acres in production in the County was computed to be 215, and the average number of acres in development was 11.

Grower expenditure estimates per acre were computed in two ways. The first was based on average costs per acre as reported in the University of California, Davis (hereafter, UC Davis) studies of avocados in 2001 and 2011. These expenditure levels were for both acres in production and acres in development, including depreciation and amortization. Since the economic impact of growing and harvesting avocados on the State's economy is a function of actual spending, it was not considered appropriate to include depreciation and amortization in these analyses.

The rates of growth in costs per acre for acres in production and acres in development were computed from 2001 through 2011, and those rates were used to estimate grower costs for 2012 through 2020. Then, the cost per acre for acres in production and acres in development were averaged for 2018 through 2020 to estimate the three-year average grower cost per acre.

This analysis using UC Davis reports focused on conventional and not organic production processes. The main reason for this approach was that insufficient data was available to make analyses using organic production costs. However, from the limited data available, it appeared that organic production costs might be somewhat higher than conventional production costs. Therefore, focusing on conventional production processes provided a more conservative estimate of grower costs.

The second method for computing grower costs per acre used the 2011 UC Davis cost estimates and adjusted those costs per acre for acres in production and in development by the Producer Price Index (hereafter, PPI) for avocados. This process provided estimates of grower costs for the years 2012 through 2020. PPI data for avocados was provided by the

U.S. Bureau of Labor Statistics and the Economic Research Unit of the Federal Reserve Bank of St. Louis. Then, the cost per acre for acres in production and acres in development were averaged for 2018 through 2020 to estimate the three-year average grower cost per acre.

The costs per acre derived from the two methods described above were averaged to determine the estimates of grower costs per acre used in this study. It was believed that just using growth rates from the UC Davis studies from 2001 through 2011 might not adequately represent more current trends. Using the PPI provided more current trends, but was not as specific to California. Blending the two results provided a reasonable estimates of grower costs per acre for acres in production and acres in development.

The results of these computations are shown below. These costs were further adjusted downward as described in "Offsets to Grower and Handler Expenses."

Grower Cost per Acre	Cost/Acre in Production	Cost/Acre in Development
Based on UCD 2001-2011 Growth Rate	\$7,608	\$9,065
Based on PPI @ 2016-2019 Growth Rate	\$12,761	\$14,017
Average of UCD and PPI	\$10,185*	\$11,541*

^{*}These costs were adjusted downward. Please see "Offsets to Grower Expenses" below.

Offsets to Grower Expenditures

Grower costs per acre were adjusted downward to reflect the possible out-migration of some dollars for purchases of goods and services. In effect, it was assumed that not all grower expenditures would be made within the County. This served to make the estimate of economic impact more conservative.

It is also important to note that 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 must make capital investments, 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 be in terms of estimating the economic impact on Monterey County's economy.

Grower Expenses Used in the Analyses

Total net expenditures by growers in the County were computed to be \$1,634,305 annually, or \$4,478 per day. This expenditure level for growers was used in IMPLAN to compute the economic impact in Monterey County.

Annual Economic Impact of Growers

Economic impact analyses were conducted based on the total net expenditures of growers in Monterey County. It is important to note that these projections are based on annual expenditures, which means that this impact is what is expected to occur each year that such spending occurs.

Growers Annual Economic Impact

The Output, Employment, Labor Income, and Indirect Business Taxes generated by avocado growers are presented in Table One on an annual basis, in Table Two on a daily basis, and summarized below. As previously indicated, avocado growers spend more than \$1.6 million annually in Monterey County. This equates to nearly \$4,500 per day (i.e., \$1.6 million divided by 365 days).

Growers Impact	Total	Total Per Day
Output	\$2,824,051	\$7,737
Employment	27	n.a.
Labor Income	\$1,488,091	\$4,077
Indirect Business Taxes	\$75,804	\$208

The overall Output, or the amount of overall business activity created, is projected to total more than \$2.8 million annually in the County, equating to nearly \$7,750 each day of the year. This includes the direct spending by avocado 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 as a result of their incremental labor income ("Induced"). Over half of this impact (57.9%) is caused by grower spending, and the remainder (42.1%) is the result of increased business activity.

Nearly 30 additional jobs are expected to be created annually in the County as a result of the spending by avocado growers. This is computed on an annual full-time equivalent basis. About 63.4% of this is the result of grower operations and the rest (36.6%) is due to the increased business activity caused by grower spending.

Labor Income resulting from additional people being employed and current employees earning more is projected to be nearly \$1.5 million annually, equating to nearly \$4,100 each day of the year. About 64.1% of this income is the direct result of spending by avocado growers, while 35.9% is due to the increased business activity. How these funds are likely to be spent across various sectors of the County's economy is based on consumer purchasing patterns described later in this Summary Report.

More than \$75,800 in additional indirect business taxes is created annually in the County from the increased business activity caused by avocado growers, equating to nearly \$210 each day of the year. These are tax dollars generated from businesses benefiting from the heightened economic activity and the increased employment. About 15.1% of these tax dollars is the direct result of spending by growers, while 84.9% is due to the increased

business activity. As is described later in this Summary Report, these tax dollars can be used to fund programs that further serve the communities within the County.

Finally, as a result of grower spending in Monterey County, the industries generating the greatest economic impact, creating the most employment, generating the most labor income, and creating the most indirect business taxes are shown below.

Industry	Output	Industry	Employment
Farming	\$1,950,039	Farming	21.9
Real Estate	\$210,058	Professional Services	1.6
Professional Services	\$205,537	Retailing & food services	1.6
Retailing & food services	\$145,257	Real Estate	0.7
Health	\$83,109	Health	0.6

Industry	Labor Income	Industry	Ind. Bus. Taxes
Farming	\$1,192,213	Retailing & food services	\$18,032
Professional Services	\$78,148	Farming	\$15,944
Retailing & food services	\$60,074	Wholesaling	\$14,354
Health	\$51,481	Real Estate	\$14,161
Real Estate	\$29,290	Professional Services	\$6,977

Possible Diffusion of Annual Labor Income Spending

Labor Income created by avocado growers will be diffused throughout the various sectors of Monterey County'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 among various economic sectors in the County, consumer expenditure patterns 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 generated for selected economic sectors are shown below and in more detail in Table Three.

	Annual Expenditures	Expenditures Per Day
Selected Spending Category		
Food	\$157,732	\$432
Food at home	\$87,387	\$239
Food away from home	\$70,345	\$193
Housing	\$404,196	\$1,107
Shelter	\$251,366	\$689
Household operations	\$30,580	\$84
Housekeeping supplies	\$13,750	\$38
Household furnishings and equipment	\$38,491	\$105

	Expenditures	Per Day
Selected Spending Category		
Apparel and services	\$35,358	\$97
Transportation	\$186,348	\$511
Vehicle purchases (net outlay)	\$74,203	\$203
Gasoline, other fuels, and motor oil	\$41,711	\$114
Public and other transportation	\$17,361	\$48
Healthcare	\$86,573	\$237
Entertainment	\$65,407	\$179
Fees and admissions	\$15,945	\$44
Pets, toys, hobbies, and playground equipment	\$16,281	\$45
Personal care products and services	\$15,007	\$41
Education	\$25,873	\$71

Annual

Expenditures

As shown above, the greatest amount of spending is for housing, transportation, and food. These three account for nearly 50.3% of total spending.

Possible Uses for Annual Business Taxes Created

To demonstrate how the indirect business tax dollars generated from spending by avocado growers could be used to help fund some of Monterey County's operations, the County budgets for a variety of departments were obtained from the County'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 selected Monterey County departments.

Presented below are the percentages of the budgets for selected Monterey County departments which could be funded by the indirect business tax dollars generated by avocado growers' spending within the County. It is important to recognize that the total business tax dollars generated were applied to <u>each</u> County department budget. A sample of department budgets listed below, and a more extensive list is presented in Table Four.

Departments	Governmental Funds Recommended 2020-21	% of Budget Could Fund
Agricultural Commissioner	\$11,775,914	0.6%
Agriculture Education	\$463,269	16.4%
California Children's Services	\$4,895,006	1.5%
Health	\$5,368,160	1.4%
Recreation & Culture	\$5,783,780	1.3%
Veterans Services	\$2,097,304	3.6%

CONCLUSIONS

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

The Output, Employment, Labor Income, and Indirect Business Taxes generated by avocado growers are summarized below. Growers spend more than \$1.6 million annually in Monterey County. This equates to nearly \$4,500 per day.

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- Nearly 30 jobs on a full-time equivalent basis as a result of their business activities and the multiplier effect created by the fact that their purchases create jobs in a variety of farming and non-farming economic sectors.
- Nearly \$1.5 million annually in labor income as a result of their business activities, or nearly \$4,100 every day of the year. These are dollars going to wages and salaries for new employment as well as expanded incomes to those already in the labor force (e.g., overtime pay). These dollars are diffused throughout Monterey County's economy as the funds are spent for a wide array of goods and services.
- More than \$75,800 annually in indirect business taxes, or nearly \$210 per day, not including income taxes. Depending on how these funds are used, they can help pay for portions of various Monterey County programs that further benefit the people residing in its communities.

Overall, these findings demonstrate the important role avocado growers play in strengthening the economic climate of Monterey County. They generate significant amounts of economic activity, create a substantial number of jobs on a full-time-equivalent basis, create large amounts of labor income that can be spent by households, and generate considerable indirect business taxes that can help fund County programs. Avocado grower activities create benefits that are diffused throughout Monterey County's economy, touching nearly every aspect of life in the County.

TABLE ONE: ANNUAL ECONOMIC IMPACT OF GROWERS

Annual Economic Impact

	Output	Output	Output	Output
INDUSTRY	Direct	Indirect	Induced	Total
Manufacturing		\$19,122	\$2,129	\$21,251
Wholesaling		\$46,756	\$35,759	\$82,514
Retailing & Food Services		\$8,156	\$137,100	\$145,257
Real Estate		\$39,797	\$170,261	\$210,058
Professional Services		\$65,323	\$140,214	\$205,537
Administrative		\$9,969	\$10,256	\$20,225
Education		\$221	\$10,505	\$10,727
Health		\$0	\$83,109	\$83,109
Arts, entertainment, recreation		\$3,857	\$35,796	\$39,653
Accommodations		\$384	\$1,435	\$1,819
Other		\$17,726	\$16,706	\$34,431
Farming	\$1,634,305	\$313,669	\$2,065	\$1,950,039
Federal		\$682	\$2,708	\$3,390
State and local		\$7,780	\$8,259	\$16,039
Total	\$1,634,305	\$533,443	\$656,303	\$2,824,051

	Employment	Employment	Employment	Employment
INDUSTRY	Direct	Indirect	Induced	Total
Manufacturing		0.0	0.0	0.0
Wholesaling		0.2	0.1	0.3
Retailing & Food Services		0.1	1.6	1.6
Real Estate		0.3	0.5	0.7
Professional Services		0.4	1.3	1.6
Administrative		0.0	0.1	0.1
Education		0.0	0.2	0.2
Health		0.0	0.6	0.6
Arts, entertainment, recreation		0.0	0.2	0.2
Accommodations		0.0	0.0	0.0
Other		0.0	0.2	0.2
Farming	17.5	4.4	0.0	21.9
Federal		0.0	0.0	0.0
State and local		0.0	0.0	0.0
Total	17.5	5.4	4.7	27.6

	Labor	Labor	Labor	
	Income	Income	Income	Labor Income
INDUSTRY	Direct	Indirect	Induced	Total
Manufacturing		\$2,021	\$345	\$2,366
Wholesaling		\$16,390	\$12,535	\$28,926
Retailing & Food Services		\$3,191	\$56,883	\$60,074
Real Estate		\$13,030	\$16,260	\$29,290
Professional Services		\$23,349	\$54,799	\$78,148
Administrative		\$3,139	\$3,803	\$6,943
Education		\$110	\$6,587	\$6,698
Health		\$0	\$51,481	\$51,481
Arts, entertainment, recreation		\$1,306	\$10,671	\$11,977
Accommodations		\$138	\$516	\$654
Other		\$3,768	\$7,479	\$11,246
Farming	\$953,296	\$237,745	\$1,172	\$1,192,213
Federal		\$496	\$1,173	\$1,670
State and local		\$2,790	\$3,616	\$6,406
Total	\$953,296	\$307,474	\$227,321	\$1,488,091

	Business	Business	Business	Indirect
	Taxes	Taxes	Taxes	Business Taxes
INDUSTRY	Direct	Indirect	Induced	Total
Manufacturing		\$360	\$58	\$418
Wholesaling		\$8,134	\$6,221	\$14,354
Retailing & Food Services		\$609	\$17,423	\$18,032
Real Estate		\$861	\$13,300	\$14,161
Professional Services		\$2,421	\$4,556	\$6,977
Administrative		\$1,002	\$697	\$1,699
Education		\$7	\$281	\$287
Health		\$0	\$995	\$995
Arts, entertainment, recreation		\$39	\$608	\$647
Accommodations		\$20	\$73	\$93
Other		\$1,767	\$1,552	\$3,319
Farming	\$11,452	\$4,479	\$13	\$15,944
Federal		-\$16	-\$239	-\$256
State and local		-\$425	-\$442	-\$867
Total	\$11,452	\$19,256	\$45,096	\$75,804

TABLE TWO: AVERAGE DAILY ECONOMIC IMPACT OF GROWERS

Daily Economic Impact

	Output	Output	Output	Output
INDUSTRY	Direct	Indirect	Induced	Total
Manufacturing		\$52	\$6	\$58
Wholesaling		\$128	\$98	\$226
Retailing & Food Services		\$22	\$376	\$398
Real Estate		\$109	\$466	\$576
Professional Services		\$179	\$384	\$563
Administrative		\$27	\$28	\$55
Education		\$1	\$29	\$29
Health		\$0	\$228	\$228
Arts, entertainment, recreation		\$11	\$98	\$109
Accommodations		\$1	\$4	\$5
Other		\$49	\$46	\$94
Farming	\$4,478	\$859	\$6	\$5,343
Federal		\$2	\$7	\$9
State and local		\$21	\$23	\$44
Total	\$4,478	\$1,461	\$1,798	\$7,737

	Employment	Employment	Employment	Employment
INDUSTRY	Direct	Indirect	Induced	Total
Manufacturing	n.a.	n.a.	n.a.	n.a.
Wholesaling	n.a.	n.a.	n.a.	n.a.
Retailing & Food Services	n.a.	n.a.	n.a.	n.a.
Real Estate	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	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.

	Labor Income	Labor Income	Labor Income	Labor Income
INDUSTRY	Direct	Indirect	Induced	Total
Manufacturing		\$6	\$1	\$6
Wholesaling		\$45	\$34	\$79
Retailing & Food Services		\$9	\$156	\$165
Real Estate		\$36	\$45	\$80
Professional Services		\$64	\$150	\$214
Administrative		\$9	\$10	\$19
Education		\$0	\$18	\$18
Health		\$0	\$141	\$141
Arts, entertainment, recreation		\$4	\$29	\$33
Accommodations		\$0	\$1	\$2
Other		\$10	\$20	\$31
Farming	\$2,612	\$651	\$3	\$3,266
Federal		\$1	\$3	\$5
State and local		\$8	\$10	\$18
Total	\$2,612	\$842	\$623	\$4,077

	Business	Business	Business	Indirect
	Taxes	Taxes	Taxes	Business Taxes
INDUSTRY	Direct	Indirect	Induced	Total
Manufacturing		\$1	\$0	\$1
Wholesaling		\$22	\$17	\$39
Retailing & Food Services		\$2	\$48	\$49
Real Estate		\$2	\$36	\$39
Professional Services		\$7	\$12	\$19
Administrative		\$3	\$2	\$5
Education		\$0	\$1	\$1
Health		\$0	\$3	\$3
Arts, entertainment, recreation		\$0	\$2	\$2
Accommodations		\$0	\$0	\$0
Other		\$5	\$4	\$9
Farming	\$31	\$12	\$0	\$44
Federal		\$0	-\$1	-\$1
State and local		-\$1	-\$1	-\$2
Total	\$31	\$53	\$124	\$208

TABLE THREE: POSSIBLE DIFFUSION OF LABOR INCOME

Labor Income Diffusion as a Result of Grower Expenditures

	Annual Expenditures	Expenditures Per Day
SPENDING CATEGORY		
Food	\$157,732	\$432
Food at home	\$87,387	\$239
Food away from home	\$70,345	\$193
Housing	\$404,196	\$1,107
Shelter	\$251,366	\$689
Owned dwellings	\$126,568	\$347
Rented dwellings	\$108,853	\$298
Utilities, fuels, and public services	\$69,991	\$192
Household operations	\$30,580	\$84
Housekeeping supplies	\$13,750	\$38
Household furnishings and equipment	\$38,491	\$105
Apparel and services	\$35,358	\$97
Transportation	\$186,348	\$511
Vehicle purchases (net outlay)	\$74,203	\$203
Gasoline, other fuels, and motor oil	\$41,711	\$114
Other vehicle expenses	\$53,055	\$145
Public and other transportation	\$17,361	\$48
Healthcare	\$86,573	\$237
Entertainment	\$65,407	\$179
Fees and admissions	\$15,945	\$44
Audio and visual equipment and services	\$18,475	\$51
Pets, toys, hobbies, and playground equipment	\$16,281	\$45
Other entertainment supplies, equipment, services	\$14,706	\$40
Personal care products and services	\$15,007	\$41
Reading	\$2,017	\$6
Education	\$25,873	\$71
Cash contributions	\$44,596	\$122
Gifts of goods and services	\$21,130	\$58

TABLE FOUR: POSSIBLE USES FOR INDIRECT BUSINESS TAXES

Possible Use of Indirect Business Taxes as a Result of Grower Expenditures

Departments	Governmental Funds Recommended 2020-21	% of Budget Could Fund
Agricultural Commissioner	\$11,775,914	0.6%
Agriculture Education	\$463,269	16.4%
California Children's Services	\$4,895,006	1.5%
Child Support Services	\$11,823,905	0.6%
Health	\$5,368,160	1.4%
Housing Successor Agencies	\$863,460	8.8%
Recreation & Culture	\$5,783,780	1.3%
Sheriff-Coroner	\$49,780,065	0.2%
Veterans Services	\$2,097,304	3.6%