
ECONOMIC AND FISCAL CONTRIBUTIONS OF AGRICULTURE MANATEE COUNTY, FLORIDA

Prepared by
American Farmland Trust
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American Farmland Trust (AFT) is a private, nonprofit conservation organization founded in 1980 to protect our nation's strategic agricultural resources. AFT works to stop the loss of productive farmland and to promote farming practices that lead to a healthy environment. AFT provides a variety of services to landowners, land trusts, public officials, planners, agricultural agencies and others. Services include Cost of Community Services studies, workshops on farmland protection and estate planning, farmland protection program development and agricultural economic analysis.

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Executive Summary

Manatee County is located on the Gulf Coast of Florida and, with its warm climate and white sand beaches, it is an attractive place to live. It is also an important agricultural county, ranking 6th in Florida in the market value of products sold and 93rd in the United States.¹ With recent population growth and development in the county, however, rural areas are being lost to a pattern of sprawling suburban development. Despite high development pressures the county has strong interest in keeping a viable agriculture industry.

To inform the development of a Rural Land Stewardship Program (RLSP)² and planning decisions, the county hired American Farmland Trust (AFT) to collect and analyze agricultural land use, economic and fiscal data. AFT conducted a three-part study to determine:

1. The current state of agriculture to see how much land remains in farming operations, what is produced and recent trends to show where agriculture may be heading;
2. The contribution of farmland and the larger agricultural industry to the county economy, including support services and food processing; and
3. The feasibility of conducting a Cost of Community Services (COCS) study to demonstrate how different land uses require and pay for public services.

To understand the current state of agriculture in Manatee County, AFT reviewed U.S. Census of Agriculture data from the past four surveys (1987, 1992, 1997 and 2002). The Manatee county assessor's office provided data on farmland acreage and value. While the Census of Agriculture shows a 9 percent decrease in farmland over a 15-year period (1987 to 2002), data from the county assessor show a further loss of 8 percent in only three years, from 2002 to 2005. In 2005, 55 percent of the county was in agricultural land, but, if current trends continue, in a few years less than half of the land area will be in agriculture.

Tomatoes are the dominant product with sales approaching \$200 million, though they are grown on only 11,298 acres, or 4 percent of the county's agricultural land. AFT also found that farm operations had:

- a market value of \$1.4 billion including land and buildings in 2005;
- total product sales, including tomatoes, of \$268.5 million in products in 2002, an increase of 81 percent between 1987 and 2002;
- farm labor costs of \$57.5 million for 8,167 employees and contract labor payments of \$25.2 million, for a combined total labor cost of \$82.7 million; and
- a "taxable value for operating purposes" of \$269.7 million generating about \$4.5 million in property taxes in 2005 for county government, the school district and other county services.

¹ Out of 3,075 counties, putting Manatee in the top 4 percent of sales.

² The Rural Land Stewardship Act (Section 163.3177(11)(d) Florida Statutes) was established in state law by the Florida Legislature, first as a pilot program in 2001 and again in 2004 as a specifically encouraged land use strategy. The Act was intended to promote a new method of protecting rural lands with high urban development potential, accomplished through a system of transferable land use credits, whereby private landowners are provided equity for their natural resources. Landowners get credits that can be transferred for development in planned locations.

To evaluate the larger economic impact of the agricultural industry including the farm sector, agricultural support activities and food processing industries, AFT used Impact Analysis for Planning (IMPLAN) software and data from 2003. Total output from both the farm sector and the larger agricultural industry was compared to output from all industries in the county. The multiplier value and value-added dollars were also analyzed for the agricultural industry. Key findings from the research found:

- The output of the entire agricultural industry was \$1.8 billion, representing about 11 percent of the total county output.
- Agricultural (farms and support service) output was \$363 million.
- Food processing output was \$1.2 billion.
- Every \$1 increase in farm output led to an additional 37 cents in economic activity in other sectors of the local economy. Thus, while the direct output of the county's farm sector was \$342 million, an additional \$126 million was generated in other sectors of the local economy, based on 2003 data.
- The farm sector contributed \$260 million in value added, while food-processing industries contributed \$440 million in value added to the local economy.

AFT also investigated the feasibility of Manatee County undertaking a Cost of Community Services (COCS) study, a case study analysis of the net fiscal impacts of existing land uses on local budgets. A COCS study provides a snapshot in time of costs versus revenues based on current land use. It also shows what services taxpayers receive from their local government and how local government revenues and expenditures relate to land use. Local budgetary information is allocated to major land use categories. The study relies on budget and financial records and in-depth interviews with local government officials and budget managers to understand how revenues were generated and how appropriations were spent during a recent year.

Conducting a COCS study in Manatee County would involve allocating revenues and expenditures for residential and commercial land use and would not greatly contribute to a better understanding of the contribution of farmland. Therefore, AFT determined that while a complete COCS study is feasible, the results of a study would not provide data valuable for the development of a rural land stewardship program. AFT recommends that the county consider alternative studies, such as comparing the costs and benefits of development on a single parcel of land or identifying other values of farmland that might be useful in the Rural Land Stewardship Program. Another study AFT recommends is conducting qualitative interviews with farmers and residents to gauge farm transition issues and the pressures on farming, including an analysis of land use conflicts, labor supply and availability of housing for workers.

Introduction

MANATEE COUNTY

Manatee County is located in southwest Florida on the Gulf Coast, just south of the Tampa–St. Petersburg metropolitan area. It encompasses approximately 741 square miles or 474,257 acres. The population of the county is just over 300,000,³ 74 percent of the residents (222,238) live in the unincorporated area of the county, 54,303 live in Bradenton and the remainder live in the municipalities of Anna Maria, Bradenton Beach, Holmes Beach, Longboat Key and Palmetto. The county's population grew from 211,707 in 1990 to 264,002 in 2000, a 25 percent increase, and according to the U.S. Census of Population, the population of Manatee County is expected to increase another 27 percent by 2010. Manatee County's Economic Development Council also predicts this steady growth pattern to continue.

The county assessor's data indicate there were 259,567 acres of agricultural land in 2005, representing 55 percent of land in the county. With recent population growth and development, the county is losing more of its rural areas to a pattern of sprawling suburban development. In just a six-year period, from 2000 to 2005, certificates of occupancy were issued for 17,948 new single-family detached houses in the county.⁴

WHY SAVE FARMLAND?

Productive agricultural land is a finite and irreplaceable natural resource. While farmland in Manatee County produces agricultural commodities, such as tomatoes and citrus, it also provides the community with valuable cultural and ecological resources. Preserving farmland helps protect Manatee's social heritage, scenic views, open space and community character. Long-range environmental benefits include wildlife habitat, clean air and water, flood control, ground-water recharge and carbon sequestration.

Economic and Fiscal Benefits

Saving farmland is an investment in community infrastructure and economic development. Distinctive agricultural landscapes are often magnets for tourism. Agriculture contributes to local economies directly through sales, job creation, support services and businesses, and also by supplying lucrative secondary markets such as food processing. Agriculture supports local government budgets and the ability to create wealth locally.

Privately owned and managed agricultural land generates more in local tax revenues than it costs in services. Careful examination of other local budgets in COCS studies indicates nationwide that farm, forest and open lands more than pay for the municipal services they require, while taxes on residential uses consistently fail to cover costs.⁵ Related studies measuring the effect of all types of development on municipal tax bills find that tax bills generally go up as communities become more

³ Economic Development Council, Manatee Chamber of Commerce, 2005.

⁴ Manatee County Web site, Building Permit Department.

⁵ Julia Freedgood, *Cost of Community Services Studies: Making the Case for Conservation* (Northampton, Mass.: AFT, 2002).

developed. Even those communities with the most taxable commercial and industrial properties have higher-than-average taxes.⁶

Local governments are discovering that they cannot afford to pay the price of unplanned development. Converting productive agricultural land to developed uses creates negative economic and environmental impacts. To accommodate sprawling growth, property taxes have to be raised, other sources of revenue have to be found, or services have to be reduced. Vehicle miles traveled (and related impacts) also increase.

Environmental Quality

Well-managed agricultural land supplies important non-market goods and services. Farmland provides food and cover for wildlife, helps control flooding, protects wetlands and watersheds, and maintains air quality. Farmland absorbs and filters wastewater and provides groundwater recharge. New energy crops even have the potential to replace fossil fuels.

Converting farmland to development has detrimental long-term impacts on environmental quality. Water pollution from urban development is well documented. Development increases pollution of rivers and streams, as well as the risk of flooding. Paved roads and roofs collect and pass stormwater directly into drains instead of it being filtered naturally through the soil. Septic systems for low-density subdivisions can add untreated waste to surface water and groundwater—potentially yielding higher nutrient loads than livestock operations. Development often produces more sediment and heavy metal contamination than farming, and it increases pollutants—such as road salt, oil leaks from automobiles and runoff from lawn chemicals—that lead to groundwater contamination. Farmland that is developed also limits the aquifer’s ability to recharge, lowers drinking-water quality and reduces biodiversity in streams.

Food Security

While domestic food shortages are unlikely in the short term, the U.S. Census of Population predicts the population will grow by 42 percent in the next 50 years. Many developing nations already are concerned about food security. The productivity and diversity of American agriculture can ensure food supplies and continuing preeminence in world markets. In order to support the rapidly changing global demand, investment strategies that preserve valuable assets such as agricultural land need to be implemented.

Heritage and Community Character

For many people, the most compelling reasons for saving farmland are local and personal. Sometimes the most important qualities are the hardest to quantify—such as local heritage and sense of place. Farmland maintains scenic, cultural and historic landscapes. Managed open spaces provide beautiful views and opportunities for hunting and fishing, horseback riding, dirt-biking and other recreational activities. Farms create identifiable and unique community character and add to the quality of life.

⁶ Deb Brighton, *Community Choices: Thinking Through Land Conservation, Development, and Property Taxes in Massachusetts* (Boston, Mass.: The Trust for Public Land, 1999).

Public awareness of the multiple benefits of agriculture has led to greater community appreciation of the importance of keeping land open for fiscal, economic and environmental reasons. As a result, community residents increasingly are challenging the perspective that development is the most desirable use of agricultural land—especially in rural communities and communities transitioning from rural to suburban.

CHAPTER ONE

Current State of Agriculture in Manatee County

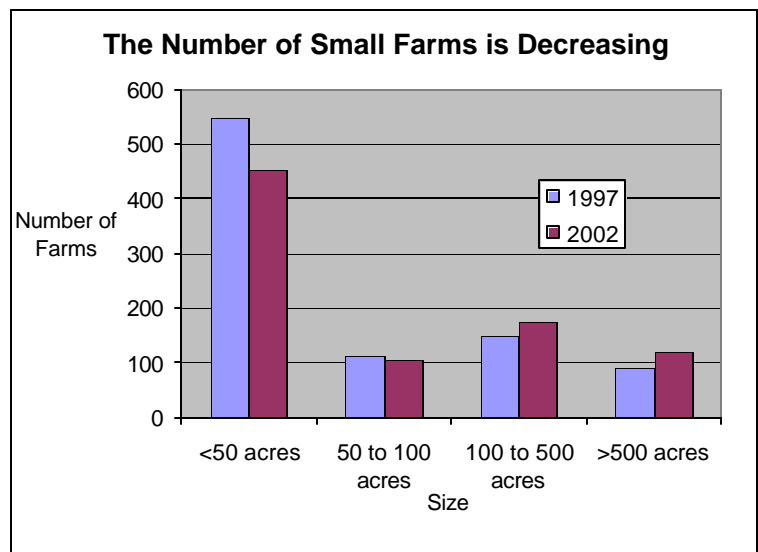
To get a complete picture of the current state of agriculture in Manatee County, AFT used two sources of data: the U.S. Census of Agriculture and the county assessor's office. Pinning down the exact nature of farmland in the county can be confusing because of the variety of definitions used for farmland by different sources. For example, the U.S. Census of Agriculture defines a farm as "any place from which \$1,000 or more of agricultural products were produced and sold, or normally would have been sold, during the census year." The Manatee County property assessor classifies farmland under use-value assessment⁷ as "lands primarily used for bona fide agricultural purposes, or good faith commercial agricultural use of the land." These definitions account for discrepancies in the data as reported by these two sources.

TRENDS BASED ON THE U.S. CENSUS OF AGRICULTURE

Manatee is an important agricultural county, ranking 6th in the market of products sold in Florida and 93rd in the U.S. AFT gathered information about trends in Manatee County's agriculture using U.S. Census of Agriculture survey data for 1987, 1992, 1997 and 2002 and local sources such as Cooperative Extension and the county assessor's office. The Census of Agriculture provides uniform data on agricultural production and operator characteristics for each county and state and the U.S. as a whole. Highlights of this data are summarized in Table 1.

Number of Farms and Average Size

In 2002, there were 852 farms in Manatee County, a 5 percent decrease from the 899 farms in 1997. In 2002, the average farm size was 354 acres, with more than half (53 percent) of the farms less than 50 acres in size. In general, farms are consolidating. Between the 1997 and 2002 census, the number of small farms (less than 100 acres) decreased, while the number of large farms (more than 100 acres) and their associated acreage increased.



⁷ Use-value assessment is a tax incentive program that shifts property tax burdens to other classes of property, since use-value assessment generally lowers the value of agricultural property relative to assessment at fair market value. Agricultural producers are taxed at the income earning potential of the land in agricultural production rather than at what a willing buyer would pay for the land. The term "use-value assessment" is often used interchangeably with "differential assessment." Eligibility criteria for use-value assessment in Florida are defined in Statute 193.461. In Florida, use-value assessment is often referred to as the state's "greenbelt" law.

TABLE 1.

Highlights of Trends in Manatee County Agriculture

Number of Farms

852 farms in 2002, 899 farms in 1997, 5 percent decrease

Land in Farms

301,231 acres in 2002, 268,882 acres in 1997, 12 percent increase

Cropland: 117,173 acres

Woodland: 38,266 acres

Pastureland: 104,172 acres

Other: 41,620 acres

Average Size of Farms

354 acres in 2002, 299 acres in 1997, 18 percent increase

Market Value of Products Sold

\$268.5 million in 2002, \$240.9 in 1997, 11 percent increase

Crop sales accounted for \$247 million of the total value in 2002.

Livestock sales accounted for \$21.5 million of the total value in 2002.

Estimated Market Value of Land and Buildings

\$926 million in 2002

Workers and Payroll

8,167 workers with a \$57.5 million payroll in 2002.

Value of Sales by Commodity

		State Rank	U.S. Rank
Vegetables, melons, potatoes:	\$158.5 million	2	13
Fruits, tree nuts and berries:	\$49.2 million	11	51
Nursery, greenhouse, floriculture:	\$39 million	11	76

Top Crop Items (acres)

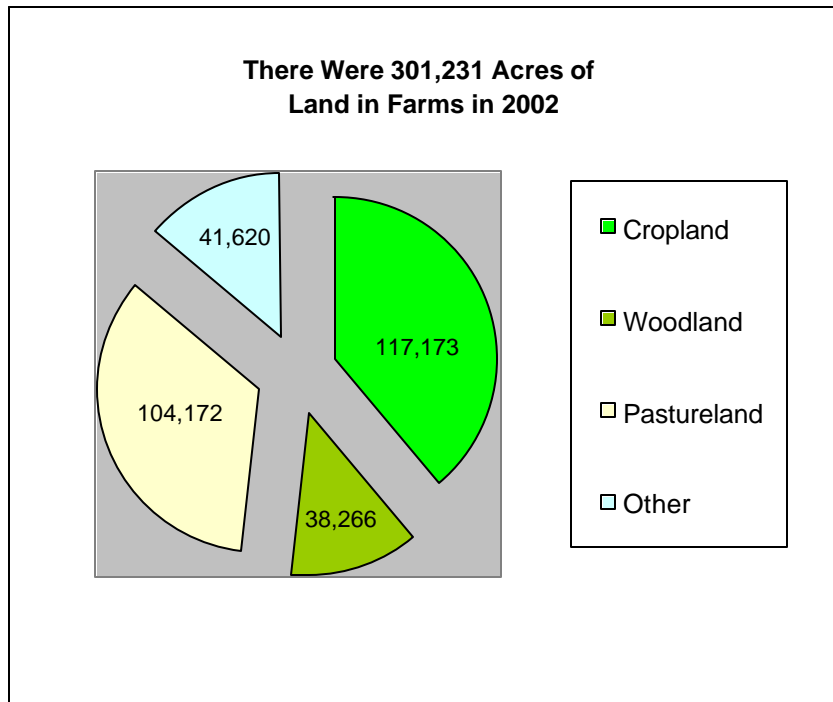
	State Rank	U.S. Rank
Oranges – 23,478	10	13
Tomatoes – 11,298	2	10
Cucumbers and pickles – 5,481	1	5

Source: U.S. Census of Agriculture, 1997, 2002.

Land in Farms

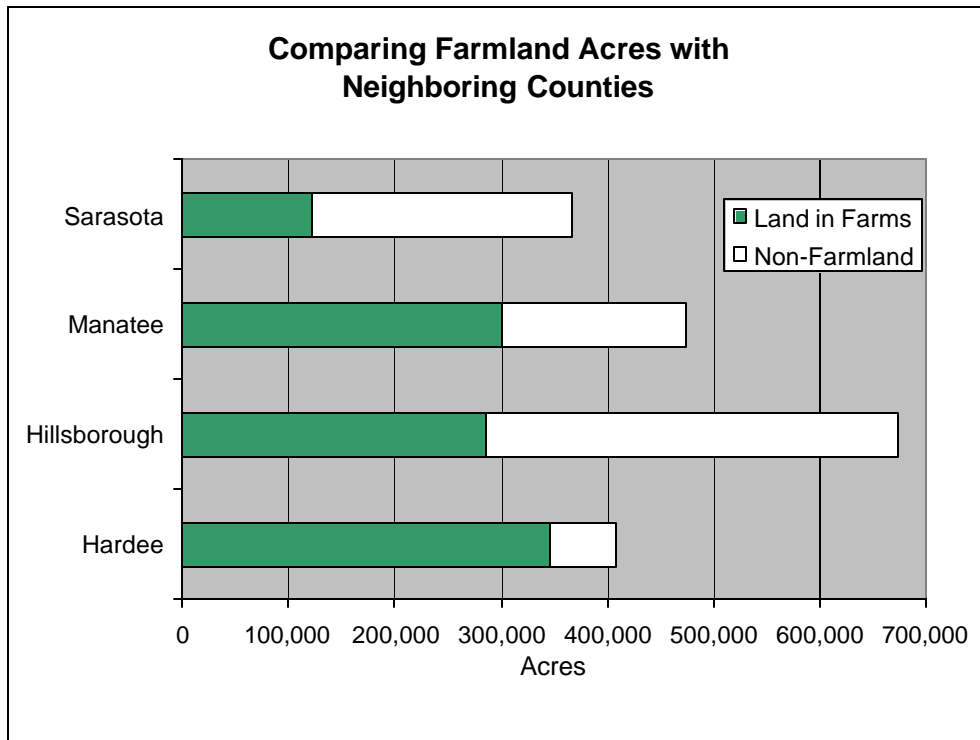
In 2002, there were 301,231 acres of land in farms with an average farm size of 354 acres. Cropland was the largest land use category with 117,173 acres, followed by pastureland (104,172 acres), other land (41,620 acres) and woodland (38,266 acres)⁸. The top crop items in acreage included

oranges (23,478), tomatoes (11,298), cucumbers and pickles (5,481) and forage (5,352). Interestingly, land in farms increased by 12 percent between 1997 and 2002. Most of the reported increased acreage was in cropland.

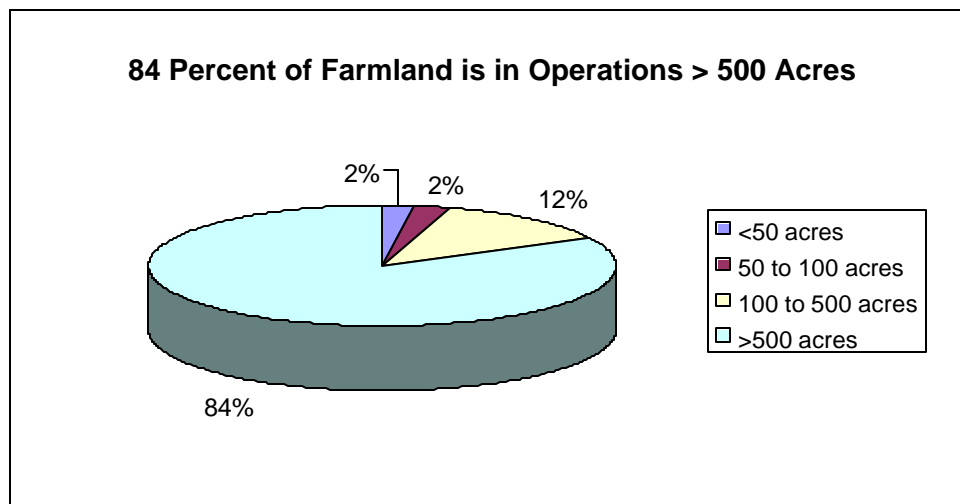


The 301,231 acres of farmland in Manatee represent 64 percent of the land in the county, a higher percentage of farmland than the neighboring counties of Hillsborough and Sarasota.

⁸ U.S. Census of Agriculture, 2002. Acreage designated as “land in farms” consists primarily of agricultural land used for crops, pasture or grazing. It also includes woodland and wasteland not actually under cultivation nor used for pasture or grazing provided it was part of the farm operator’s total operation. Large acreages of woodland or wasteland held for nonagricultural purposes were deleted from individual reports during the processing operations. Land in farms includes acres in the Conservation Reserve Program and Wetlands Reserve Program. Cropland includes land from which crops were harvested or hay was cut; land in orchards, citrus groves, vineyards, nurseries and greenhouses; cropland used only for pasture or grazing; land in cover crops, legumes and soil-improvement grasses; land on which all crops failed; land in cultivated summer fallow; and idle cropland. The pastureland land use category encompasses all grazeable land that does not qualify as cropland pasture. It may be irrigated or dry land. In some areas, it can be a high quality pasture but could not be cropped without improvements. In other areas, it is barely able to be grazed and is only marginally better than wasteland. Other land includes land in house lots, barn lots, ponds, roads, ditches, wasteland, etc. It includes those acres in the farm operation not classified as cropland, pastureland or woodland. The woodland category includes natural or planted woodlots or timber tracts, cutover and deforested land with young growth that has, or will have, value for wood products and woodland pasture.

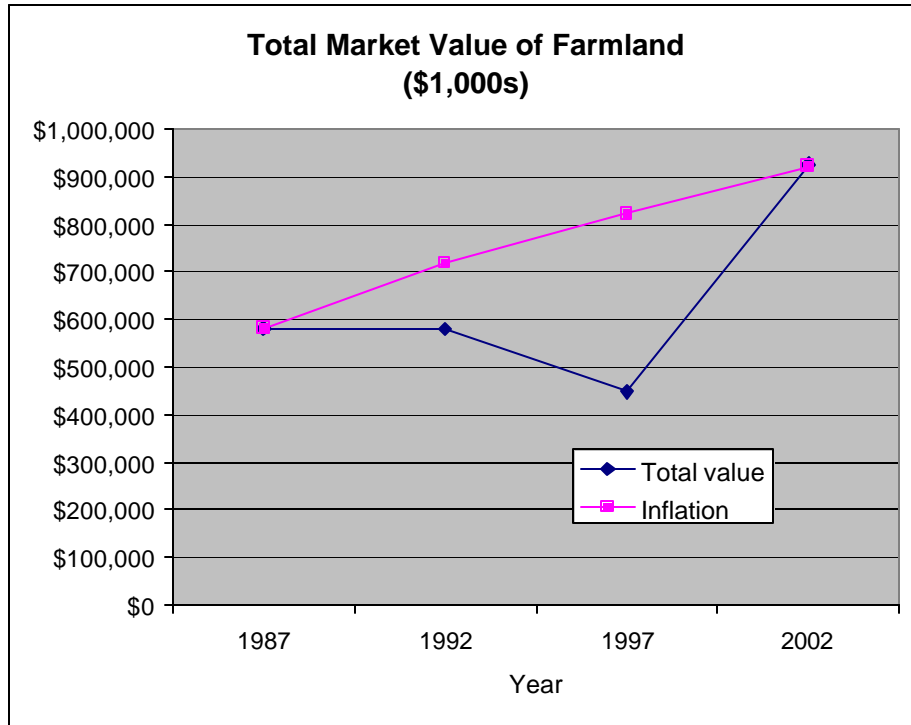


The majority of farmland is in large operations. In 2002, 84 percent of farmland in Manatee County was in operations of more than 500 acres.



Market Value of Agricultural Land and Buildings

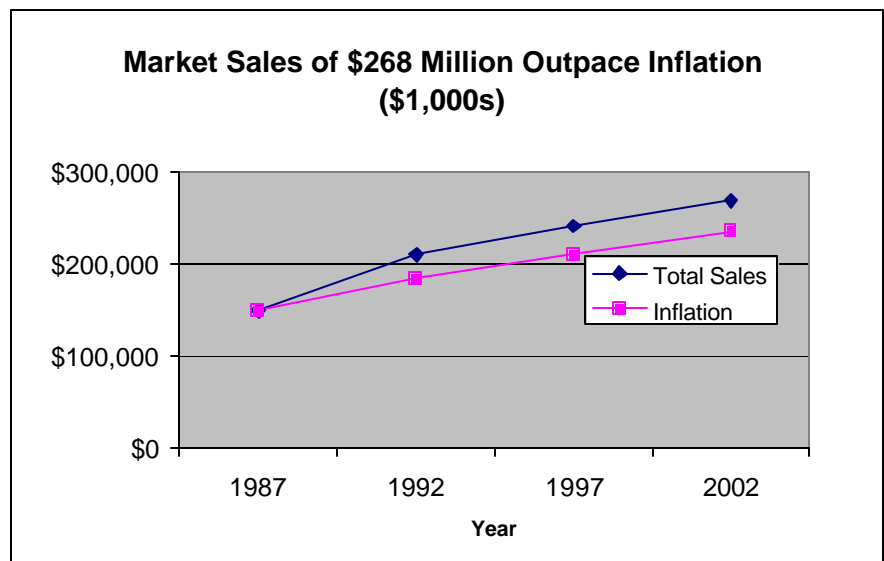
The Census of Agriculture samples operations to identify an estimated market value of agricultural land and buildings. In 2002, the average operation was valued at \$1,086,878 resulting in a market value of \$926 million for all farms. Between 1987 and 1997, the real value of farmland declined, but it has recently increased dramatically, essentially catching up with the inflation value.

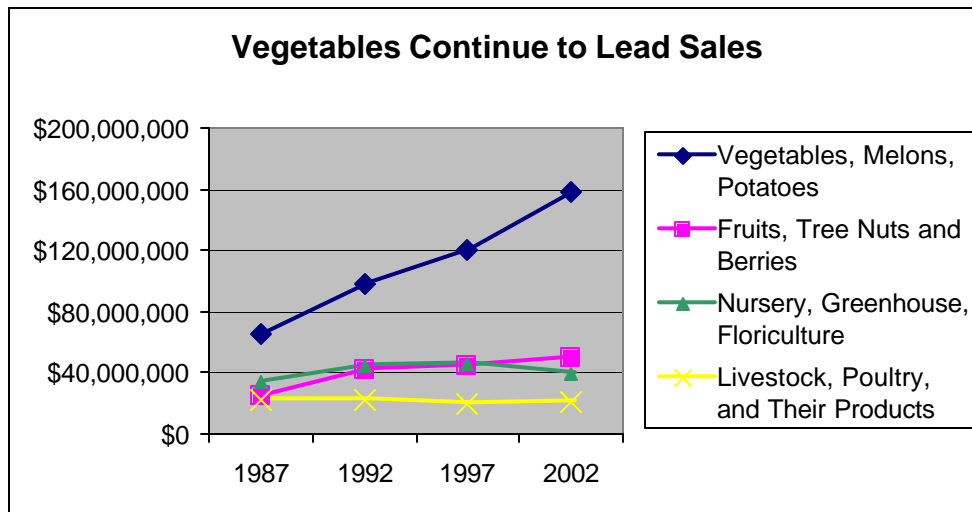


Market Value of Agricultural Products Sold

In 2002, the market value of agricultural products sold was \$268.5 million. Sales dollars increased 81 percent between 1987 and 2002. While some of this increase is due to inflation rather than greater productivity, the increase is still slightly greater than the rate of inflation.

The top products sold include: vegetables, melons and potatoes (\$158 million); fruits, tree nuts and berries (\$49 million); nursery, greenhouse and floriculture (\$39 million); and livestock and poultry (\$21 million). Vegetables (primarily tomatoes), melons and potatoes had the largest growth in sales between 1987 and 2002, increasing in value two and half times. The sales values of fruits (primarily citrus), tree nuts and berries doubled during this period.





Farm Production Expenses

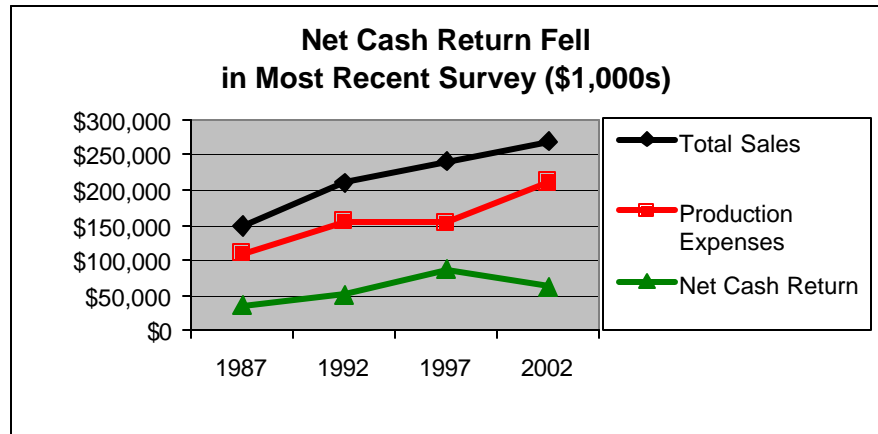
Farm operations in Manatee County spent \$211 million on production expenses in 2002. The largest expense items were for hired farm labor and contract labor. These figures reflect the wider economic and fiscal impacts of agriculture in the county such as employment and property taxes. The breakdown of production expenses is shown in Table 2.

Hired farm labor	\$ 57,477,000
Contract labor	\$ 25,211,000
Supplies, repairs, maintenance	\$ 23,017,000
Chemicals	\$ 20,898,000
Fertilizer, lime, and soil conditioners	\$ 15,860,000
Seeds, plants, vines, trees	\$ 13,936,000
Gasoline, fuels and oils	\$ 6,893,000
Customwork and hauling	\$ 6,280,000
Feed purchased	\$ 5,844,000
Cash rent	\$ 4,690,000
Property taxes paid	\$ 4,536,000
Interest expense	\$ 4,317,000
Utilities	\$ 4,269,000
Rent and lease for equipment	\$ 2,378,000
Livestock and poultry	\$ 1,040,000
All other	<u>\$ 14,272,000</u>
Total	\$ 210,918,000

Farm Income

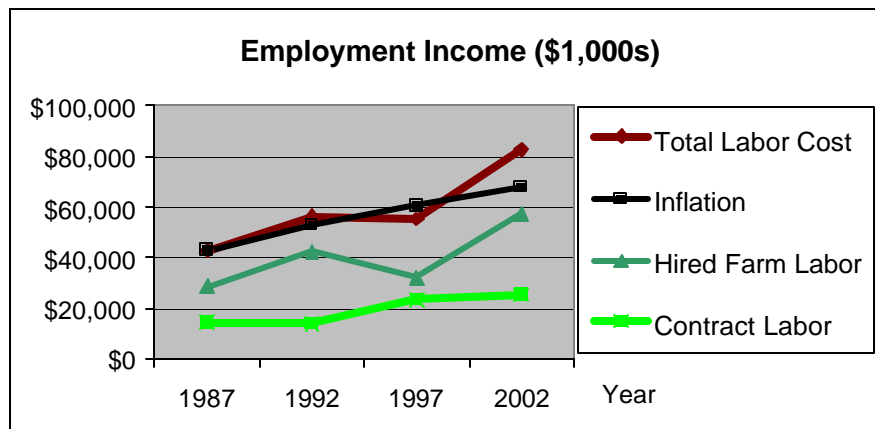
In 2002, the net cash return to farm operations was \$62.1 million for an average of \$72,903 per farm. This was a 73 percent increase from the \$36 million reported in 1987.

However, adjusting the 1987 dollars for inflation shows that the actual increase in net cash return was only 9 percent over this time period. Between 1997 and 2002, both sales and production expenses increased substantially, but net cash return declined 28 percent.



Labor

One of the largest production expenses in 2002 was farm labor⁹ at a cost of \$57.5 million for 8,167 employees. In addition, contract labor¹⁰ payments totaled \$25.2 million. Combined, the total labor cost was \$82.6 million. Reported labor costs doubled between 1987 and 2002, rising faster than the rate of inflation during the same period.



⁹ 2002 expenses for hired farm and ranch labor include the total amount paid for farm or ranch labor including regular workers, part-time workers, and members of the operator’s family if they received payments for labor. Totals include social security taxes, state taxes, unemployment tax, payment for sick leave or vacation pay, workman’s compensation, insurance premiums and pension plans.

¹⁰ 2002 data for contract labor include payments made to contractors, crew leaders, cooperatives, or any other organization hired as a crew of laborers to do a job that may involve one or more agricultural operations. In some cases, a crew leader may provide some equipment. Data exclude expenses made on a contractual basis for repair or maintenance or for capital improvements, such as construction of farm buildings, installation of fences or irrigation systems, and land leveling.

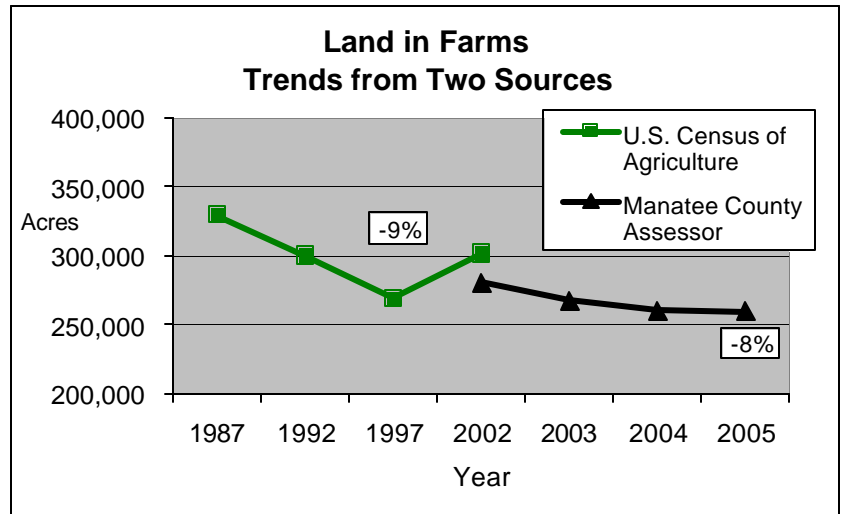
MANATEE COUNTY ASSESSOR'S DATA

Land in Farms

According to the Manatee County Assessor, in 2005 there were 259,567 acres of agricultural land in use in the county, an almost 8 percent decrease from 280,594 acres in 2002. This is about 21,000 acres less than reported in the 2002

Census of Agriculture and may be explained by the statistical margin of error due to the new census data collection methodology. AFT believes the assessor's data is a more accurate account of farmland acreage.

A review of assessor's data by land use category from 2002 to 2005 reveals several trends. Some agricultural land use categories increased in acreage during this period, including non-productive land, such as houses, trenches, etc. (9 percent) and row crops (2 percent) and sod farms (30 percent). At the same time, other categories lost acreage: orange groves (-7 percent); pastureland (-12 percent); and nurseries (-1 percent). These data indicate that more intensive agriculture, such as row crops, is increasing, while livestock production on pastureland is decreasing. The complete list of agricultural property types by acreage, from 2002 to 2005, can be seen in Appendix C.



Property Taxes Paid by Farmland

According to the county assessor's records, there were 2,481 parcels of agricultural land in Manatee County in 2004 with a "just value" (market value) of \$1.4 billion. The county assessor reduces the just value to reflect any exemptions and reductions in value associated with the greenbelt program,¹¹ resulting in a "taxable value for operating purposes" of \$269.7 million. In 2005, this taxable value generated about \$4.5 million of property taxes for county government, the school district and other county services (Table 3). Farmland's fiscal benefits and its relation to the community's cost of services is discussed in Chapter Three.

Table 3. Property Tax Generated by Farmland

Service	Tax Rate	Estimated Property Taxes Generated
County	7.7063	\$ 2,078,620
Other	1.0174	\$ 274,423
Schools	7.933	\$ 2,139,768
Total		\$ 4,492,811

¹¹ Florida's greenbelt law provides a methodology assessment wherein property that is determined to be in "bona fide agricultural production" by a county property appraiser is assessed according to its use rather than its highest value.

CHAPTER TWO

Economic Contribution of the Agricultural Industry

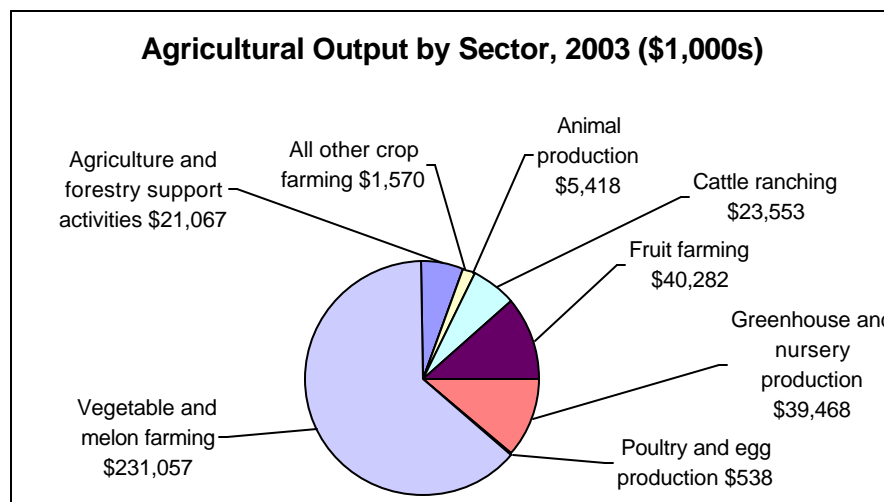
IMPACT ANALYSIS FOR PLANNING

To determine the economic contribution of the agricultural industry in Manatee County, AFT used Impact Analysis for Planning (IMPLAN) data from 2003, the most recent year available. Agricultural data are collected on a commodity basis and usually only for market cash receipts. IMPLAN collects estimates of the value of production (output) for the U.S., and for each state and county, and is based on input-output economics. The software also generates data for employment, employment compensation, proprietor income, indirect business tax and total value added. A summary of the data generated from this software can be seen in Table 4.

OUTPUT

For IMPLAN analysis the “agricultural industry” is comprised of three distinct sectors—farms, agricultural support services, and food processing and wholesale services. Agricultural support services include crop consultants, animal production support, veterinary services and farm supplies. Food processing and wholesale services are places that manufacture and sell food items using the products produced by farms.

To demonstrate the relative impact of agriculture in Manatee County, the total output from both the farm sector and the larger agricultural industry is compared to the entire economic output of the county. Output is defined as “the value of production, which includes sales plus additions to inventory.” The value of production or output includes sales as well as commodities used in the farm production process but not sold in the open market. This is true primarily for the feed grain and hay sectors. Output estimates for these sectors will almost always exceed published cash receipts data.

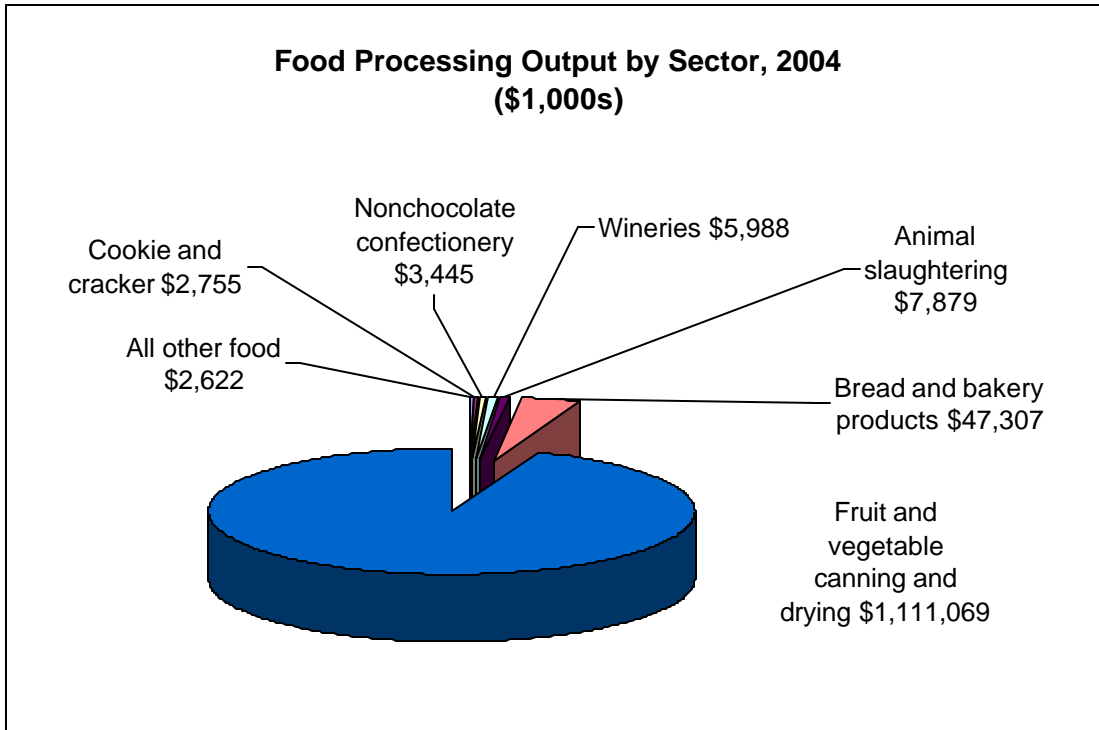


Farm Sector and Agricultural Support Services

Agricultural output in Manatee County in 2003 was \$363 million. The largest sector was vegetable and melon farming with \$231 million of output. The contribution of each agricultural sector is shown in the above chart.

Food Processing

Food processing output was \$1.2 billion in 2003. Fruit and vegetable canning is by far the largest food processing industry with \$1.1 billion of output. The largest companies in this sector are Tropicana Products, with 1,600 employees, and Pacific Tomato Growers, Ltd., with 150 employees. The output of individual food processing sectors is shown in the following chart.



Manatee County’s entire output from all sectors in 2003 was \$14.4 billion. The agricultural industry output of \$1.8 billion represents about 11 percent of the county’s total output.

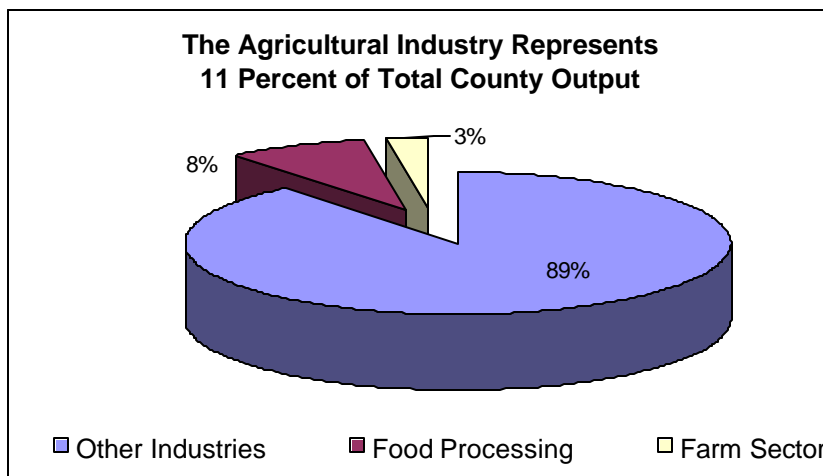


Table 4. Manatee County IMPLAN Data, 2003 (\$1,000s)

Farm Sectors	Output	Employee Compensation	Proprietor Income	Other Property Income	Indirect Business Tax	Total Value Added
Oilseed farming	\$ 31	\$ -	\$ 4	\$ 12	\$ 1	\$ 17
Vegetable and melon farming	\$ 231,057	\$ 29,591	\$ 26,087	\$ 117,583	\$ 2,949	\$ 176,210
Fruit farming	\$ 40,282	\$ 12,740	\$ 3,036	\$ 8,818	\$ 1,201	\$ 25,794
Greenhouse and nursery	\$ 39,468	\$ 13,172	\$ 4,177	\$ 19,972	\$ 539	\$ 37,860
All other crop farming	\$ 1,570	\$ 165	\$ 108	\$ 685	\$ 41	\$ 1,000
Cattle ranching	\$ 23,553	\$ 1,413	\$ 46	\$ 396	\$ 672	\$ 2,527
Poultry and egg production	\$ 538	\$ 66	\$ 20	\$ 166	\$ 2	\$ 255
Animal production, except cattle and poultry	\$ 5,418	\$ 668	\$ (34)	\$ 184	\$ 113	\$ 931
Agriculture and forestry support activities	\$ 21,067	\$ 14,276	\$ 6,089	\$ (4,708)	\$ 201	\$ 15,858
Total Farm Sector	\$ 362,984	\$ 72,091	\$ 39,533	\$ 143,108	\$ 5,719	\$ 260,452
Food Processing Sectors						
Non-chocolate confectionery	\$ 3,445	\$ 691	\$ 0	\$ 732	\$ 23	\$ 1,446
Fruit and vegetable canning and drying	\$1,111,069	\$ 192,104	\$ 0	\$ 206,589	\$ 10,732	\$ 409,426
Ice cream and frozen dessert	\$ 1,591	\$ 137	\$ 0	\$ 127	\$ 8	\$ 272
Animal, except poultry, slaughtering	\$ 7,879	\$ 899	\$ 0	\$ 57	\$ 56	\$ 1,012
Bread and bakery product, except frozen	\$ 47,307	\$ 15,773	\$ 0	\$ 8,536	\$ 328	\$ 24,637
Cookie and cracker manufacturing	\$ 2,755	\$ 451	\$ 0	\$ 604	\$ 23	\$ 1,078
All other food manufacturing	\$ 2,622	\$ 473	\$ 0	\$ 171	\$ 17	\$ 662
Wineries	\$ 5,988	\$ 928	\$ 0	\$ 212	\$ 453	\$ 1,593
Total Food Processing	\$1,182,656	\$211,456	\$ 0	\$ 217,028	\$ 11,640	\$ 440,126
Total Agricultural Industry	\$1,554,312	\$ 284,663	\$ 39,955	\$ 362,168	\$ 16,990	\$ 703,778
Percentage of County Economy	11%	6%	5%	16%	3%	8%
Manatee County, All Sectors	\$14,406,174	\$4,808,746	\$ 761,236	\$2,262,007	\$ 529,718	\$8,361,707
Source: 2003 IMPLAN Multiplier Reports. Minnesota IMPLAN Group, Inc. Stillwater, Minn.						

IMPLAN MULTIPLIERS

The IMPLAN software tool allows the estimation of the multiplier effects of changes in final demand for one industry on all other industries within a local economic area, in this case, a county. Multipliers measure total changes in output, income, employment, or value added. For a particular industry, multipliers estimate three components of total change within the county:

- Direct effects – represent the initial change in the industry in question.
- Indirect effects – are changes in inter-industry transactions as supplying industries respond to increased demands from the directly affected industries.
- Induced effects – reflect changes in local spending that result from income changes in the directly and indirectly affected industry sectors.

Type I multipliers capture direct and indirect effects.

Type II multipliers capture all three effects.

Type SAM multipliers capture all three effects and further account for commuting, social security and income taxes, and savings by households.

The output multiplier provides a way to assess how much activity a specific sector will generate in other parts of the economy. The output values from agriculture have “downstream” effects that transform other sectors of the economy, thus stimulating other business activity. Therefore, an output multiplier is used to measure the total effect of agriculture on the economy. These multipliers vary by agricultural sector (i.e., vegetables, greenhouse/nursery, cattle and calves, etc.) and by local economies. Total effects multipliers usually range from 1.5 to 2.5 and are interpreted as indicated below:

- *Output multipliers* relate the changes in sales to final demand by one industry to total changes in output (gross sales) by all industries within the local area. An industry output multiplier of 1.65 would indicate that a change in sales to final demand of \$1.00 by the industry in question would result in a total change in local output of \$1.65.
- *Income and employment multipliers* relate the change in direct income to changes in total income within the local economy. For example, an income multiplier for a direct industry change of 1.75 indicates that a \$1.00 change in income in the direct industry will produce a total income change of \$1.75 in the local economy. Similarly, an employment multiplier of 1.75 indicates that the creation of one new direct job will result in a total of 1.75 jobs in the local economy.
- *Value added multipliers* are interpreted the same as income and employment multipliers. They relate changes in value added in the industry experiencing the direct effect to total changes in value added for the local economy.

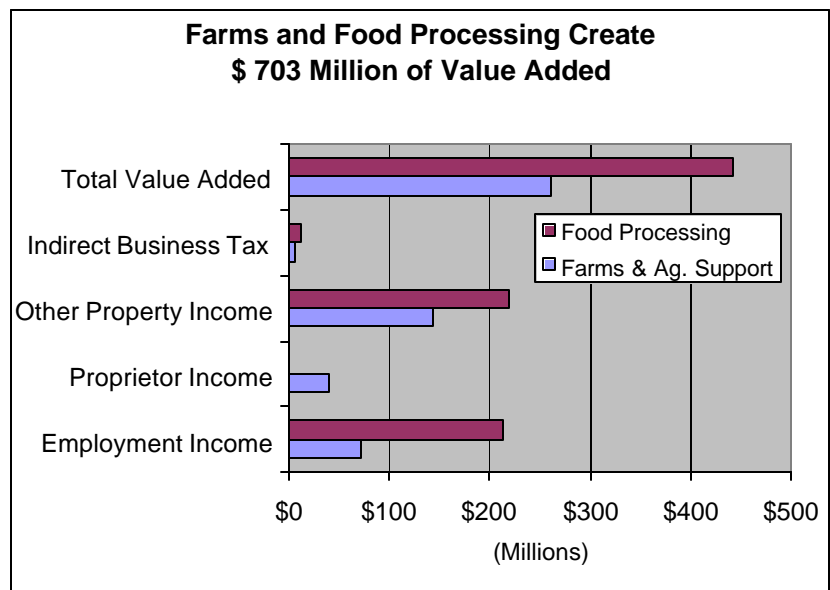
Based on output multipliers for Manatee County’s farm commodities, every \$1 increase in total farm output led to an additional 37 cents in economic activity in other sectors of the local economy. Thus, while the direct output of the county’s farm sector was \$342 million, an additional \$126 million was generated in other sectors of the local economy based on 2003 data. The output multipliers for the three groups that comprise the agricultural industry are shown in Table 5.

Group	Output	Multiplier
Farm Sector	\$ 342 million	1.37
Agricultural Support Services	\$ 67 million	1.56
Food Processing	\$ 1.2 billion	1.57
Total	\$ 1.6 billion	

Source: 2003 IMPLAN Multiplier Reports. Minnesota IMPLAN Group, Inc. Stillwater, Minn.

VALUE ADDED

Value added is the sum of all income derived from an industry, including wage income and owner income, less business taxes. For Manatee County, value added is the sum of the following: employee compensation or total payroll costs (wages and salaries plus benefits) paid by local industries; proprietor income or self employment; other property income including corporate income, rental income, interest and corporate transfer payments; and indirect business taxes such as sales, excise, fees, licenses and other taxes paid during the normal operation of industry. The farm sector contributed \$260 million in value added, while food-processing industries contributed \$440 million in value added to the local economy.



The employment income, proprietor income, other property income and indirect business tax components of value added for the three parts of Manatee’s agricultural industry is shown in Table 6.

Category	Employment Income	Proprietor Income	Other Property Income	Indirect Business Tax	Total Value Added
Farms & Agricultural Support	\$ 72	\$ 40	\$ 143	\$ 6	\$ 260
Food Processing	\$ 213	\$ 0	\$ 219	\$ 11	\$ 443
Totals	\$ 285	\$ 40	\$ 362	\$ 17	\$ 703

Source: 2003 IMPLAN Multiplier Reports. Minnesota IMPLAN Group, Inc. Stillwater, Minn.

CHAPTER THREE

Cost of Community Services Study Feasibility

A Cost of Community Services (COCS) study is a case study analysis of the net fiscal impacts of existing land uses on local budgets. It provides a snapshot in time of costs versus revenues based on current land use. COCS studies are based on real numbers in a recent and discrete fiscal period. COCS studies show what services taxpayers receive from their local government and how local government revenues and expenditures relate to land use.

To conduct a COCS study, local budgetary information is allocated to major land use categories. To understand how revenues were generated and how appropriations were spent during a recent year, the study relies on budget and financial records and in-depth interviews with local government officials and budget managers. There are three basic steps in the process of conducting a COCS study:

1. Collect data: Obtain relevant reports and other financial records, interview officials, boards and departments;
2. Allocate revenues and expenditures by land use; and
3. Analyze data and calculate ratios.

Based on a review of Manatee County's property assessment data, land use codes and budget documents, AFT investigated several issues to determine the best approach to undertaking a COCS study. The structure and results of a COCS study are defined by resolving the following issues:

- The definition and categorization of different land use types for the study;
- The amount of agricultural and open lands and their assessed value;
- An understanding of the relative importance of different sources of county revenues;
- The feasibility of manipulating assessor's data to match the study's land use definitions;
- The range of services to be included in the study; and
- The effects of any special taxing districts or programs on study results.

LAND USE CATEGORIES

AFT met with the county assessor to review property classification codes and to define land use categories. The discussion resulted in the three land use categories for Manatee County:

- **Residential Development** – property used for dwellings, including farmhouses, mobile homes, and rental units.
- **Commercial and Industrial Development** – property actively used for business purposes other than agricultural or forestry, including retail and wholesale production.
- **Farm and Forest Land** – all farm, agricultural and forest parcels, including those qualifying for reduced assessment under Florida's Greenbelt Program.

COUNTY REVENUES AND SERVICES

AFT reviewed the Comprehensive Annual Financial Report (CAFR) for fiscal year 2005, produced by the Clerk of the Circuit Court, to better understand and determine the range of county services that would be evaluated in a COCS study. There are many community services provided to the residents and businesses of Manatee County by constitutional officers (property appraiser, tax collector, sheriff, etc.), by county government departments (building, parks and recreation) and by proprietary operations (golf courses, port authority) that are overseen by county officials. In addition, education services are administered under separate authority by the Manatee County Board of Education. The total cost for providing these services is over \$800 million.

Manatee County financial records make a distinction between functions that are principally supported by taxes and intergovernmental revenues (governmental activities) and other functions that are intended to recover all, or a significant portion of, their costs through user fees and charges (business-type activities).

Governmental activities reported in the statements include general government, public safety, physical environment, transportation, economic environment, human services, and culture and recreation. Revenues for governmental activities were \$356.6 million, while expenditures were \$278 million.

Major business activities include the county's two golf courses, stormwater and transit operations, and a convention center. Revenues for these activities were \$165.6 million, while expenditures were \$131.9 million. In addition, a number of proprietary operations provide services on a fee basis, but county department divisions provide operational and fiscal management. The Manatee County Port Authority and Civic Center Authority are separate legal entities, but the Manatee County Commission serves as their governing boards and function, for all practical purposes, as departments of Manatee County.

The Manatee County Board of Education provides educational services to all of the students in the county and is separate from county government. For fiscal year 2005 (July 1, 2004, to June 30, 2005), the school district had revenues of \$386.4 million and expenditures of \$410.5 million. The excess of expenditures over revenues may be attributed to \$80 million in capital outlays.

Services Not Included

The services and related budgets for the cities of Anna Maria, Bradenton, Bradenton Beach, Holmes Beach, Longboat Key and Palmetto would not be included in the COCS study.

Required Interviews

Interviews with department heads and local officials are conducted so that the researcher gains an understanding of the local budget structure, the general activities of each department and how the departments are related. Specific questions are asked to determine revenue sources and how expenditures were spent in the year studied, as related to businesses, residents, farms and open land in the community. Table 7 lists county departments, designates which departments would be interviewed, and provides notes on potential allocations of expenditures by land use.

Table 7. Manatee County Services – Fiscal Year 2005

Service	Expenditure	Percent of Total	In COCS Study	Inter-view	Notes
Constitutional Officers					
Circuit Court Clerk	\$ 10,009,775	1.22%	Yes	Yes	Finance, records, courts, child support
Property Appraiser	\$ 3,425,276	0.42%	Yes	Yes	Mostly completed
Elections Supervisor	\$ 1,483,951	0.18%	Yes	No	Allocated entirely to residential
Tax Collector	\$ 6,134,739	0.75%	Yes	Yes	Ad Valorem, motor vehicle, other licenses
Sheriff	\$ 86,528,445	10.58%	Yes	Yes	Complicated service picture
County Government					
County Administrator	\$ 1,704,728	0.21%	Yes	No	Allocated based on an administrative %**
County Attorney	\$ 2,090,765	0.26%	Yes	Yes	Allocated based on an administrative %
Building	\$ 5,336,230	0.65%	Yes	Yes	Allocated residential and commercial
Visitors Bureau	\$ 2,090,765	0.26%	Yes	No	Allocated to commercial land use
Parks and Recreation	\$ 11,493,202	1.41%	Yes	No	Allocated entirely to residential
Environmental Management	\$ 1,797,855	0.22%	Yes	Yes	Watershed, mining, air, groundwater
Agriculture & Natural Resources	\$ 1,312,033	0.16%	Yes	Yes	Extension, Soil & Water, Maintenance
Project Management	\$ 1,185,526	0.14%	Yes	Yes	Related to capital improvement projects
Human Resources	\$ 927,945	0.11%	Yes	No	Allocated based on an administrative %
Facilities Management	\$ 5,907,897	0.72%	Yes	Yes	Allocated based on an administrative %
Planning	\$ 5,668,771	0.69%	Yes	Yes	Comp., community, natural resources
Public Safety	\$ 1,185,526	0.14%	Yes	Yes	Emergency services & marine rescue
Information Services	\$ 13,210,856	1.62%	Yes	No	Allocated based on an administrative %
Transportation	\$ 15,483,641	1.89%	Yes	Yes	Highways, traffic, stormwater
Financial Management	\$ 1,686,032	0.21%	Yes	No	Allocated based on an administrative %
Community Services	\$ 3,697,931	0.45%	Yes	No	Allocated to residential land use
BCC Court Funding	\$ 1,253,324	0.15%	Yes	Yes	Finance or Clerk of Circuit Court
Proprietary Operations					
Public Utilities System	\$ 89,042,407	10.89%	Partially*	Yes	Many departments provide services
Civic Center Authority	\$ 1,940,845	0.24%	Partially*	No	Allocated to commercial land use
Port Authority	\$ 9,339,296	1.14%	No	No	Service not provided county wide
Golf Courses	\$ 1,757,179	0.21%	Partially*	No	Allocated entirely to residential
Transit System	\$ 7,792,858	0.95%	Partially*	No	Allocated to residential land use
Capital Projects	\$ 94,918,676	11.60%	Yes	No	Covered during interview with CC Clerk
Debt	\$ 19,066,502	2.33%	Yes	No	Covered during interview with CC Clerk
County Expenditures	\$ 407,472,976	49.81%			
Board of Education	\$ 410,511,263	50.19%	Yes	Yes	Expenditure residential, revenues mixed.
ALL EXPENDITURES	\$ 817,984,239				

Source: Manatee County Comprehensive Annual Financial Report, Fiscal Year Ended September 30, 2005

* Only those funds transferred to or from the general fund, or any services to this department provided by other county departments.

** An administrative percentage is the land use allocation once all other services have been allocated for county expenditures (3.2 % of expenditures).

ACREAGE OF AGRICULTURAL AND OPEN LANDS AND ASSESSED VALUE

Property taxes, totaling \$330.7 million, are an important source of revenue for services in Manatee County, representing 48 percent (\$170.7 million) of total revenues for governmental activity and 42 percent (\$163 million) of revenues for the school district.¹² A careful analysis of the assessor’s land use categories and assessment data would be required to calculate the amount of taxes contributed by the land use categories defined in a COCS study (residential, commercial and industrial and farmland).

AFT met with the county property appraiser to discuss property valuation and land use codes for Manatee County. There are over 148,000 property parcels with a “just value” of \$31.7 billion, which is adjusted by the property appraiser to establish a “taxable value for operating purposes.” After adjustments, the taxable value is \$22.7 billion. Each of the appraisal land use categories was discussed with the appraiser so that the value could be moved to the COCS study categories of residential, commercial/industrial, and agricultural land as shown in Table 9. A comparison of local land use categories, their assessed values and allocation to the COCS land use categories shows that residential lands represent 82.2 percent of taxable value, while commercial and industrial properties represent 16.6 percent, and agricultural lands represent 1.2 percent. Agricultural lands, as defined by the county assessor, produce about \$4.4 million of property taxes for all services. However, in a COCS study, the values of the farmhouses on agricultural parcels are counted as residential properties. According to the assessor, these houses had a taxable value of just over \$175 million. When this value is taken out of agriculture and moved to the residential column, the remaining agricultural land value represents about ½ percent of property taxes (see Table 9). Property taxes for county, school board and other services are generated by multiplying the taxable value by the tax rate as shown in Table 8.

Table 8. Property Taxes by Land Use, 2005				
Service	Tax Rate	Residential	Commercial/ Industrial	Agriculture
County	7.7063	\$ 143,869,905	\$ 29,143,280	\$ 2,078,620
Other	1.0174	\$ 18,993,971	\$ 3,847,550	\$ 274,423
School Board	7.933	\$ 148,102,196	\$ 30,000,602	\$ 2,139,768
Totals		\$ 310,966,073	\$ 62,991,432	\$ 4,492,812
Percent of total		82.2%	16.6%	1.2%
Source: Manatee County Assessor				

¹² Comprehensive Annual Financial Report, Fiscal Year Ended September 30, 2005.

Table 9. Property Categories, Assessed Values and COCS Land Use Breakdown

2004 Property Valuation Department Data						COCS Study Categories		
Use Code	Land Use	Number of Parcels	Just Value	Taxable Value for Operating Purposes	% Of Total	Residential	Commercial/Industrial	Agricultural
00	Vacant residential	20,080	\$ 964,827,905	\$ 959,880,489	4.2%	\$ 959,880,489	\$ -	\$ -
	Ag on Residential	38	\$ 78,132,319	\$ 10,079,434	0.04%			\$ 10,079,434
01	Single Family	72,489	\$17,078,797,161	\$11,946,406,863	52.6%	\$11,946,406,863	\$ -	\$ -
02	Mobile Homes	11,779	\$ 628,030,983	\$ 402,615,616	1.8%	\$ 402,615,616	\$ -	\$ -
08	Multi-family 10 units	263	\$ 553,972,429	\$ 548,364,377	2.4%	\$ 548,364,377	\$ -	\$ -
03	Condominiums	25,212	\$ 4,239,458,600	\$ 3,393,338,499	14.9%	\$ 3,393,338,499	\$ -	\$ -
04	Cooperatives	7	\$ 20,064,113	\$ 20,064,113	0.1%	\$ 20,064,113	\$ -	\$ -
05	Ret. Homes	100	\$ 85,759,238	\$ 68,559,939	0.3%	\$ 68,559,939	\$ -	\$ -
06 & 07	Multi-family	4,552	\$ 957,564,871	\$ 829,234,329	3.6%	\$ 829,234,329	\$ -	\$ -
10	Vacant commercial	890	\$ 189,710,117	\$ 188,414,218	0.8%	\$ -	\$ 188,414,218	\$ -
11-39	Improved commercial	3,766	\$ 2,574,157,195	\$ 2,531,817,661	11.1%	\$ -	\$ 2,531,817,661	\$ -
40	Vacant Industrial	472	\$ 50,115,512	\$ 50,115,512	0.2%	\$ -	\$ 50,115,512	\$ -
41-49	Improved Industrial	920	\$ 738,235,204	\$ 737,501,943	3.2%	\$ -	\$ 737,501,943	\$ -
50-69	Agricultural	2,481	\$ 1,414,969,663	\$ 269,730,019	1.2%	No Value	No Value	No Value
	Ag with Residential	986	\$ 684,320,843	\$ 175,410,654	0.8%	\$ 175,410,654	\$ -	\$ -
	Remaining ag value		\$ 730,648,820	\$ 94,243,321	0.4%	\$ -	\$ -	\$ 94,243,321
70-79	Institutional	813	\$ 594,792,500	\$ 172,799,382	0.8%	\$ -	\$ 172,799,382	\$ -
80-85	Government	1,389	\$ 953,689,848	\$ 9,613,512	0.0%	\$ -	\$ 9,613,512	\$ -
90	Leasehold Interest	166	\$ 33,692,361	\$ 17,772,482	0.1%	\$ -	\$ 17,772,482	\$ -
91-97	Miscellaneous	708	\$ 78,055,410	\$ 73,712,710	0.3%	\$ -	\$ 73,712,710	\$ -
99	Non-agricultural	<u>2,338</u>	<u>\$ 559,113,035</u>	<u>\$ 500,664,264</u>	<u>2.2%</u>	<u>\$500,664,264.00</u>	<u>\$ -</u>	<u>\$ -</u>
	Totals	148,425	\$31,715,006,145	\$22,720,605,928	100%	\$18,831,819,253	\$3,775,954,481	\$104,322,755
	Land use percentage					82.9%	16.6%	.46%

Source: Manatee County Assessor, 2005

CONCLUSION

Manatee County will decide whether or not to continue with a COCS study comparing the revenues contributed by residential, commercial/business and farmland properties against expenditures for those same lands. AFT's analysis determined that property taxes paid by farmland are almost the only source of revenue from this land use. While farmland pays property taxes for education, county and other services, it does not use many of these services.

Out of the roughly \$818 million of service costs, residential and commercial properties contribute over 99 percent of revenues to pay for services in Manatee County. While the findings of a COCS study may be of interest to county departments other than Agriculture and Natural Resources, AFT believes that the effort required to fully interview department heads and sort through financial data for a COCS study will not help promote agricultural land use in the county. While a COCS study is feasible, AFT recommends that Manatee County not proceed with the full study.

AFT recommends that several alternative studies be undertaken to help county officials better understand the strengths, weaknesses and future opportunities for agriculture in the county. These include:

1. Comparing the costs and benefits of development on a single parcel of land or identifying other values of farmland that might be useful in a Rural Land Stewardship Program.
2. Qualitative interviews with farmers and residents to gauge the pressures on farming including an analysis of land use conflicts, labor supply and availability of housing for workers, and farm transition issues.
3. An analysis of farm support services and food processing to determine short and long-term projections for the tomato and orange industries and the future viability of these important economic services.

The results of this current study on the economic and fiscal contributions of agriculture in Manatee County provide reliable financial information that demonstrates the importance of agricultural and forest lands to the county's fiscal balance. Results of this study suggest that the development of strategies to retain this land base for future agriculture would be a good long-term investment. The evidence from over 100 studies around the U.S. demonstrates that agricultural lands, even with a reduced assessed value, contribute a surplus of revenue to pay for public services. Agricultural lands pay more in local tax revenues than they receive in services. Differential property tax programs are justified as a way to provide an incentive to keep land open and in active agricultural use. A balance of land uses, including agricultural lands, is needed to provide adequate revenue to pay for services.

With product sales of \$268 million in 2002, agriculture is an important part of Manatee County's economy. Agricultural lands still represent a little more than half of the land area of the county. Any future efforts to preserve this land base and improve economic development efforts that promote this local industry will also yield greater fiscal revenues.

Appendices

- APPENDIX A: KEY POINTS ABOUT THE 2002 CENSUS OF AGRICULTURE
- APPENDIX B: U.S. CENSUS OF AGRICULTURE DATA, 1987, 1992, 1997 AND 2002
- APPENDIX C: AGRICULTURAL LAND USE REPORT FOR MANATEE COUNTY
- APPENDIX D: IMPLAN OUTPUT, VALUE ADDED AND EMPLOYMENT, MANATEE COUNTY, 2003
- APPENDIX E: IMPLAN OUTPUT MULTIPLIERS, MANATEE COUNTY, 2003

Appendix A

Key Points About the 2002 Census of Agriculture

The Census of Agriculture provides uniform data on agricultural production and operator characteristics for each county and state and the U.S. as a whole. Historically, the U.S. Department of Commerce, Bureau of Census, conducted the Census of Agriculture. In 1997, responsibility for the Census of Agriculture was transferred to the U.S. Department of Agriculture's National Agricultural Statistics Service (NASS). Several changes were made to the 2002 Census of Agriculture. For the first time, NASS adjusted the data to account for missed or misclassified farms. NASS measured the incompleteness of the census mailing list (CML) by interviewing each producer identified on randomly selected sample tracts and comparing this information to the CML. Census data were then weighted to approximate for operations that were not included. This coverage adjustment was part of an ongoing effort to ensure the Census of Agriculture is the most accurate and comprehensive source of information about U.S. agriculture.

Due to these changes, there was an apparent increase in the number of farms, farmers and land in farms from the figures reported in the original 1997 Census of Agriculture. As a result, the new, adjusted figures are not exactly comparable to the Census data from years prior to 1997. To show the differences, in the Historical Highlights tables NASS lists the adjusted 1997 data alongside the non-adjusted 1997 data. In all other places, the original 1997 data has been adjusted in the 2002 Census.

The Census of Agriculture also uses a Non-Response Adjustment that corrects for the number of operators that do not respond. This adjustment figure has been a feature throughout the history of the Census of Agriculture. According to the instruction sheet for the 2002 Census of Agriculture, a reply is required from everyone who receives a report form, including individuals, landlords, tenants, partnerships, corporations, institutions and even those not involved in conducting agricultural operations.

NASS found that the coverage adjustment for the total number of farms in Florida was 29.1 percent; the non-response adjustment for the number of farms was 8.87 percent. Within the Land in Farms category, the coverage adjustment for the total amount of farm acreage was 9.95 percent; while the non-response adjustment was 4.56 percent. Finally, the coverage adjustment for total sales was 2.44 percent and the non-response adjustment was 2.99 percent for the state of Florida.

Appendix B

U.S. Census of Agriculture Data, 1987, 1992, 1997, and 2002

Appendix B: U.S. Census of Agriculture Data, 1987, 1992, 1997, 2002

Data Category	1987	1992	1997	Adjusted 1997	2002	% change 1987 to 2002	% change 1997 to 2002
1. Number of farms	766	728	697	899	852	11%	-5%
State of Florida				45,808	44,081		-4%
2. Average Size of Farms	430	412	384	299	354	-18%	18%
State of Florida				233	236		2%
3. Land in farms							
Total Acreage	329,388	299,699	267,993	268,882	301,231	-9%	12%
Cropland				103,063	117,173		14%
Woodland				34,262	38,266		12%
Pastureland				117,295	104,172		-11%
Other (Land in house lot, ponds, wasteland, etc.)*				14,262	41,620		192%
State of Florida				10,659,777	10,414,877		-2%
4. Estimated Market Value - Land & Buildings							
Avg. per farm	\$ 759,265	\$ 796,187	\$ 642,545	NA	\$ 1,086,878	43%	69%
Inflation	\$ 759,265	\$ 937,692	\$ 1,072,766	NA	\$ 1,202,372	58%	
Total value	\$ 581,596,990	\$ 579,624,136	\$ 447,853,865	NA	\$ 926,020,056	59%	107%
Inflation	\$ 581,596,990	\$ 718,272,283	\$ 821,738,387	NA	\$ 921,016,993	58%	12%
In 2002 Dollars	\$ 921,016,993	\$ 743,223,048	\$ 501,985,962	NA	\$ 926,020,056	1%	84%
Average per acre (2002 \$)	\$ 2,796	\$ 2,480	\$ 1,873	NA	\$ 3,074	10%	64%
5. Average age of farmers							
Average Age	54	55.3	57.3	NA	57.3	6%	0%
6. Total market value of agricultural products sold							
Total Sales	\$ 148,655,000	\$ 209,865,000	\$ 239,624,000	\$ 240,983,000	\$ 268,480,000	81%	11%
Inflation	\$ 148,655,000	\$ 183,588,925	\$ 210,034,650	\$ 210,034,650	\$ 235,410,058	58%	12%
Crops					\$ 247,023,000		
Livestock, poultry,					\$ 21,457,000		
Avg. per farm	\$ 194,067	\$ 288,276		\$ 268,057	\$ 315,118	62%	18%
Inflation	\$ 194,067	\$ 239,672		\$ 274,197	\$ 307,324	58%	12%
Avg. per acre	\$ 451	\$ 700		\$ 896	\$ 891	97%	-1%
Inflation	\$ 451	\$ 557	\$ 638	\$ 638	\$ 715	58%	12%
Top four products							
Vegetables, melons, potatoes	65,273,000	98,068,000	120,424,000	NA	158,557,000	143%	32%
% of total	44%	47%	50%		59%		
Fruits, tree nuts, and berries	24,687,000	41,392,000	44,076,000	NA	49,188,000	99%	12%
% of total	17%	20%	18%		18%		
Nursery, greenhouse, floriculture	33,832,000	44,058,000	45,218,000	NA	39,012,000	15%	-14%
% of total	23%	21%	19%		15%		
Livestock, poultry, and their products	22,797,000	22,124,000	20,196,000	NA	21,457,000	-6%	6%
% of total	15%	11%	8%		8%		
Other products	2,066,000	4,223,000	9,710,000	NA	266,000	-87%	-97%
% of total	1%	2%	4%		0.10%		

Appendix B: U.S. Census of Agriculture Data, 1987, 1992, 1997, 2002

Data Category	1987	1992	1997	Adjusted 1997	2002	% change 1987 to 2002	% change 1997 to 2002
7. Farm expenses							
Net Cash Return							
Per farm	\$ 46,739	\$ 69,951	\$ 124,425	NA	\$ 72,903	56%	-41%
In 2002 \$	\$ 74,017			NA	\$ 72,903	-2%	
All farms	\$ 35,849,000	\$ 50,772,000	\$ 86,724,225	NA	\$ 62,113,356	73%	-28%
In 2002 \$	\$ 56,771,552			NA	\$ 62,113,356	9%	
Total prod. expenses	\$ 110,172,000	\$ 155,230,000	\$ 153,617,000	NA	\$ 210,921,000	91%	37%
In 2002 \$	\$ 174,471,684			NA	\$ 210,921,000	21%	
Sales minus prod. exp.	\$ 38,483,000	\$ 54,635,000	\$ 86,007,000	NA	\$ 57,559,000	50%	-33%
Comparison*	\$ 2,634,000	\$ 3,863,000	\$ (717,225)	NA	\$ (4,554,356)		
*net cash figure to sales minus production expenses							
Production expenses							
fertilizer, lime, and soil conditioners	NA	NA	\$ 13,882,000	NA	\$ 15,860,000	NA	14%
chemicals	NA	NA	\$ 19,251,000	NA	\$ 20,898,000	NA	9%
seeds, plants, vines, trees	NA	NA	\$ 6,906,000	NA	\$ 13,936,000	NA	102%
livestock and poultry	NA	NA	\$ 1,938,000	NA	\$ 1,040,000	NA	-46%
feed purchased	NA	NA	\$ 6,837,000	NA	\$ 5,844,000	NA	-15%
gasoline, fuels and oils	NA	NA	\$ 4,315,000	NA	\$ 6,893,000	NA	60%
utilities	NA	NA	NA	NA	\$ 4,269,000	NA	
supplies, repairs, maint.	NA	NA	\$ 6,430,000	NA	\$ 23,017,000	NA	258%
hired farm labor	NA	NA	\$ 31,889,000	NA	\$ 57,477,000	NA	80%
contract labor	NA	NA	\$ 23,311,000	NA	\$ 25,211,000	NA	8%
customwork & hauling	NA	NA	NA	NA	\$ 6,280,000	NA	
cash rent	NA	NA	\$ 1,903,000	NA	\$ 4,690,000	NA	146%
rent & lease for equipment	NA	NA	NA	NA	\$ 2,378,000	NA	
interest expense	NA	NA	\$ 8,178,000	NA	\$ 4,317,000	NA	-47%
property taxes paid	NA	NA	\$ 4,313,000	NA	\$ 4,536,000	NA	5%
all other	NA	NA	\$ 17,902,000	NA	\$ 14,272,000	NA	-20%
Totals			\$ 147,055,000		\$ 210,918,000		43%
Farmers' and farm labor share of income							
Hired farm (workers)	(NA)	11,384	6,926	NA	8,167	NA	18%
Hired farm labor (payroll)	28,508,000	42,329,000	32,070,000	NA	\$ 57,477,000	102%	79%
From production expenses							
hired farm labor	\$ 28,508,000	\$ 42,329,000	\$ 32,070,000	NA	\$ 57,477,000	102%	79%
inflation	\$ 28,508,000	\$ 35,207,380	\$ 40,278,953		\$ 45,145,269	58%	12%
contract labor	\$ 14,314,000	\$ 13,900,000	\$ 23,293,000	NA	\$ 25,211,000	76%	8%
Totals	\$ 42,822,000	\$ 56,229,000	\$ 55,363,000		\$ 82,688,000	93%	49%
Inflation	\$ 42,822,000	\$ 52,885,170	\$ 60,503,204		\$ 67,812,919	58%	12%
9. County Farmland Comparison - 2002							
	Land in Farms	Non Farmland	Total Acreage	% farmland			
Hardee County	346,191	61,682	407,873	85%			
Hillsborough County	284,910	387,730	672,640	42%			
Manatee County	301,231	173,009	474,240	64%			
Sarasota County	121,310	244,770	366,080	33%			

Appendix B: U.S. Census of Agriculture Data, 1987, 1992, 1997, 2002

Data Category	Adjusted 1997	2002	% change 1997 to 2002
10. Number of farms within each gross sales category			
Less than \$1,000	170	163	-4%
Less than \$2,500	152	131	-14%
\$2,500 to \$4,999	111	67	-40%
\$5,000 to \$9,999	104	97	-7%
\$10,000 to \$19,999	97	88	-9%
\$20,000 to \$24,999	23	32	39%
\$25,000 to \$39,999	50	55	10%
\$40,000 to \$49,999	16	32	100%
\$50,000 to \$99,999	50	52	4%
\$100,000 to \$249,999	37	46	24%
\$250,000 to \$499,999	22	22	0%
\$500,000 or more	67	67	0%
Sales < \$10,000	537	458	-15%
Sales 10,000-99,999	236	259	10%
Sales > \$100,000	126	135	7%
11. Farms by size - number of farms			
1 to 9 acres	170	171	1%
10 to 49 acres	379	280	-26%
50 to 69 acres	61	66	8%
70 to 99 acres	50	40	-20%
100 to 139 acres	44	50	14%
140 to 179	21	35	67%
180 to 219 acres	17	27	59%
220 to 259 acres	17	12	-29%
260 to 499 acres	50	52	4%
500 to 999 acres	36	52	44%
1,000 to 1,999	24	39	63%
2000 acres or more	30	28	-7%
<50 acres	549	451	-18%
50 to 100 acres	111	106	-5%
100 to 500 acres	149	176	18%
>500 acres	90	119	32%
12. Farms by size - acres of land in farms			
1 to 9 acres	671	734	9%
10 to 49 acres	9,116	6,152	-33%
50 to 69 acres	3,640	3,845	6%
70 to 99 acres	4,006	3,175	-21%
100 to 139 acres	4,907	5,857	19%
140 to 179	3,260	5,572	71%
180 to 219 acres	3,397	5,438	60%
220 to 259 acres	4,047	2,934	-28%
260 to 499 acres	17,808	17,819	0%
500 to 999 acres	25,313	34,742	37%
1,000 to 1,999	32,185	50,553	57%
2000 acres or more	160,532	164,410	2%
<50 acres	9,787	6,886	-30%
50 to 100 acres	7,646	7,020	-8%
100 to 500 acres	33,419	37,620	13%
>500 acres	218,030	249,705	15%

Appendix C

Agricultural Land Use Report for Manatee County

Appendix C: Agricultural Land Use Report for Manatee County

Land Use	2002	2003	2004	2005	Change in Acreage	% Change 2002 to 2005	Description
AGLAND	14,909.79	15,032.75	15,964.17	16,314.43	1,404.64	9%	non productive farmland - ditches, etc.
APIAR	10.34	10.34	10.34	10.34	-	0%	bees
FSHFR	70.38	63.87	50.18	50.18	(20.20)	-29%	fishfarm
GEMYO	9.43	9.43	249.43	249.43	240.00	2545%	grove
GLADS	218.15	208.15	208.15	208.15	(10.00)	-5%	gladiolas
GREMB	14.65	14.65	14.65	14.65	-	0%	orange grove - b class
GREMC	157.47	457.73	303.92	369.12	211.65	134%	orange grove
GREMD	196.53	254.67	286.15	277.15	80.62	41%	orange grove
GRPFT	132.50	156.00	156.00	156.00	23.50	18%	grapefruit
GRVAO	1,415.78	1,223.78	885.29	812.22	(603.56)	-43%	orange grove
GRVA1	123.34	62.89	-	-	(123.34)	-100%	orange grove
GRVBO	2,792.52	2,619.83	2,381.09	2,097.16	(695.36)	-25%	orange grove
GRVB1	484.59	474.45	399.81	381.31	(103.28)	-21%	orange grove
GRVCO	6,949.33	6,790.93	6,985.65	6,875.18	(74.15)	-1%	orange grove
GRVC1	1,179.82	1,159.22	1,134.79	1,221.49	41.67	4%	orange grove
GRVCK	593.87	547.42	775.71	337.69	(256.18)	-43%	orange grove
GRVDO	4,758.00	5,064.43	4,656.28	4,610.60	(147.40)	-3%	orange grove
GRVYO	7,702.91	7,209.19	7,073.31	6,873.29	(829.62)	-11%	orange grove
GRVY1	7.00	283.07	283.07	336.47	329.47	4707%	orange grove
HIPST	3,923.11	4,001.60	3,944.42	3,779.32	(143.79)	-4%	high pasture improved
HRSFP	138.78	146.54	152.02	154.29	15.51	11%	professional horse farm
HYFLD	1,210.36	1,223.60	1,174.15	1,059.31	(151.05)	-12%	hayfield
IMPST	95,778.89	86,683.52	82,907.42	83,741.02	(12,037.87)	-13%	improved pasture
INSPT	11,067.03	10,347.02	9,912.66	9,274.69	(1,792.34)	-16%	improved natural pasture
NRSGR	1,431.27	1,439.78	1,195.24	1,287.84	(143.43)	-10%	nursery with grounds
NRSMS	399.29	409.19	489.49	527.31	128.02	32%	nursery, miscellaneous
NRSPT	433.69	425.23	421.30	432.77	(0.92)	0%	nursery, potted
PINES	827.10	1,404.42	1,398.82	1,344.55	517.45	63%	pine plantation
RNPST	77,249.71	72,901.59	69,701.18	68,784.57	(8,465.14)	-11%	rough native pasture
RWCRP	42,736.57	42,741.42	43,655.19	43,557.10	820.53	2%	row crop
SDPSA	2,478.83	2,020.81	1,945.71	2,833.85	355.02	14%	sod farm - saint augustine grass
SDRBA	714.46	1,484.99	1,416.13	1,308.26	593.80	83%	sod farm - saint augustine grass
STRWB	126.20	130.29	132.29	131.74	5.54	4%	strawberries
SWAMP	352.00	352.00	155.60	155.60	(196.40)	-56%	swamp
TOTAL	280,593.69	267,354.80	260,419.61	259,567.08	(21,026.61)	-7.5%	

Source: Manatee County Assessor's Office, 2005

Appendix D

IMPLAN Output, Value Added and Employment, Manatee County, 2003

Appendix D: Manatee County IMPLAN Data.

Industry	Industry Output*	Employment	Employee Compensation*	Proprietor Income*	Other Property Income*	Indirect Business Tax*	Total Value Added*
1 Oilseed farming	0.031	1	0	0.004	0.012	0.001	0.017
2 Grain farming	0	0	0	0	0	0	0
3 Vegetable and melon farming	231.057	2,665	29.591	26.087	117.583	2.949	176.21
4 Tree nut farming	0	0	0	0	0	0	0
5 Fruit farming	40.282	1,128	12.74	3.036	8.818	1.201	25.794
6 Greenhouse and nursery production	39.468	691	13.172	4.177	19.972	0.539	37.86
7 Tobacco farming	0	0	0	0	0	0	0
8 Cotton farming	0	0	0	0	0	0	0
9 Sugarcane and sugar beet farming	0	0	0	0	0	0	0
10 All other crop farming	1.57	20	0.165	0.108	0.685	0.041	1
11 Cattle ranching and farming	23.553	474	1.413	0.046	0.396	0.672	2.527
12 Poultry and egg production	0.538	2	0.066	0.02	0.166	0.002	0.255
13 Animal production, except cattle and poultry	5.418	265	0.668	-0.034	0.184	0.113	0.931
14 Logging	0	0	0	0	0	0	0
15 Forest nurseries, forest products, and timber	0	0	0	0	0	0	0
16 Fishing	0	0	0	0	0	0	0
17 Hunting and trapping	0	0	0	0	0	0	0
18 Agriculture and forestry support activities	21.067	1,304	14.276	6.089	-4.708	0.201	15.858
19 Oil and gas extraction	0	0	0	0	0	0	0
20 Coal mining	0	0	0	0	0	0	0
21 Iron ore mining	0.007	0	0.002	0.001	0	0	0.003
22 Copper, nickel, lead, and zinc mining	0	0	0	0	0	0	0
23 Gold, silver, and other metal ore mining	0	0	0	0	0	0	0
24 Stone mining and quarrying	0	0	0	0	0	0	0
25 Sand, gravel, clay, and refractory mining	12.859	81	5.113	0.398	3.529	0.349	9.39
26 Other nonmetallic mineral mining	6.631	63	1.541	0.946	1.681	0.179	4.347
27 Drilling oil and gas wells	0	0	0	0	0	0	0
28 Support activities for oil and gas operations	0	0	0	0	0	0	0
29 Support activities for other mining	0	0	0	0	0	0	0
30 Power generation and supply	52.175	141	10.794	0	21.197	5.512	37.503
31 Natural gas distribution	0	0	0	0	0	0	0
32 Water, sewage and other systems	1.235	13	0.572	0	0.377	0.037	0.987
33 New residential 1-unit structures, nonfarm	470.275	3,036	99.66	20.628	57.301	2.281	179.87
34 New multifamily housing structures, nonfarm	111.021	1,105	36.11	7.824	3.028	0.284	47.245
35 New residential additions and alterations, no	94.972	972	31.121	6.426	5.273	0.589	43.41
36 New farm housing units and additions and alte	14.66	62	2.044	0.422	2.244	0.084	4.793
37 Manufacturing and industrial buildings	18.807	199	6.601	1.33	0.818	0.03	8.779
38 Commercial and institutional buildings	199.601	2,488	81.142	16.738	1.022	1.261	100.162
39 Highway, street, bridge, and tunnel construct	53.511	578	19.186	3.95	1.56	0.291	24.987
40 Water, sewer, and pipeline construction	19.712	256	8.467	1.746	0.857	0.127	11.196
41 Other new construction	85.606	802	27.004	5.516	3.31	0.374	36.204
42 Maintenance and repair of farm and nonfarm re	30.889	190	6.149	1.268	4.584	0.183	12.185
43 Maintenance and repair of nonresidential buil	59.434	640	20.791	4.345	2.437	0.414	27.987

Appendix D: Manatee County IMPLAN Data.

Industry	Industry Output*	Employment	Employee Compensation*	Proprietor Income*	Other Property Income*	Indirect Business Tax*	Total Value Added*
44 Maintenance and repair of highways, streets,	9.59	92	3.037	0.622	0.172	0.072	3.903
45 Other maintenance and repair construction	14.041	202	6.904	1.394	0.808	0.088	9.194
46 Dog and cat food manufacturing	0	0	0	0	0	0	0
47 Other animal food manufacturing	0	0	0	0	0	0	0
48 Flour milling	0	0	0	0	0	0	0
49 Rice milling	0	0	0	0	0	0	0
50 Malt manufacturing	0	0	0	0	0	0	0
51 Wet corn milling	0	0	0	0	0	0	0
52 Soybean processing	0	0	0	0	0	0	0
53 Other oilseed processing	0	0	0	0	0	0	0
54 Fats and oils refining and blending	0	0	0	0	0	0	0
55 Breakfast cereal manufacturing	0	0	0	0	0	0	0
56 Sugar manufacturing	0	0	0	0	0	0	0
57 Confectionery manufacturing from cacao beans	0	0	0	0	0	0	0
58 Confectionery manufacturing from purchased ch	0	0	0	0	0	0	0
59 Nonchocolate confectionery manufacturing	3.445	12	0.691	0	0.732	0.023	1.446
60 Frozen food manufacturing	0	0	0	0	0	0	0
61 Fruit and vegetable canning and drying	1,111.07	2,308	192.104	0	206.589	10.732	409.426
62 Fluid milk manufacturing	0	0	0	0	0	0	0
63 Creamery butter manufacturing	0	0	0	0	0	0	0
64 Cheese manufacturing	0	0	0	0	0	0	0
65 Dry, condensed, and evaporated dairy products	0	0	0	0	0	0	0
66 Ice cream and frozen dessert manufacturing	1.591	4	0.137	0	0.127	0.008	0.272
67 Animal, except poultry, slaughtering	7.879	22	0.899	0	0.057	0.056	1.012
68 Meat processed from carcasses	0	0	0	0	0	0	0
69 Rendering and meat byproduct processing	0	0	0	0	0	0	0
70 Poultry processing	0	0	0	0	0	0	0
71 Seafood product preparation and packaging	0	0	0	0	0	0	0
72 Frozen cakes and other pastries manufacturing	0	0	0	0	0	0	0
73 Bread and bakery product, except frozen, manu	47.307	337	15.773	0	8.536	0.328	24.637
74 Cookie and cracker manufacturing	2.755	8	0.451	0	0.604	0.023	1.078
75 Mixes and dough made from purchased flour	0	0	0	0	0	0	0
76 Dry pasta manufacturing	0	0	0	0	0	0	0
77 Tortilla manufacturing	0	0	0	0	0	0	0
78 Roasted nuts and peanut butter manufacturing	0	0	0	0	0	0	0
79 Other snack food manufacturing	0	0	0	0	0	0	0
80 Coffee and tea manufacturing	0	0	0	0	0	0	0
81 Flavoring syrup and concentrate manufacturing	0	0	0	0	0	0	0
82 Mayonnaise, dressing, and sauce manufacturing	0	0	0	0	0	0	0
83 Spice and extract manufacturing	0	0	0	0	0	0	0
84 All other food manufacturing	2.622	10	0.473	0	0.171	0.017	0.662
85 Soft drink and ice manufacturing	0	0	0	0	0	0	0
86 Breweries	0	0	0	0	0	0	0
87 Wineries	5.988	20	0.928	0	0.212	0.453	1.593

Appendix D: Manatee County IMPLAN Data.

Industry	Industry Output*	Employment	Employee Compensation*	Proprietor Income*	Other Property Income*	Indirect Business Tax*	Total Value Added*
88 Distilleries	0	0	0	0	0	0	0
89 Tobacco stemming and redrying	0	0	0	0	0	0	0
90 Cigarette manufacturing	0	0	0	0	0	0	0
91 Other tobacco product manufacturing	0	0	0	0	0	0	0
92 Fiber, yarn, and thread mills	0	0	0	0	0	0	0
93 Broadwoven fabric mills	2.103	12	0.586	0	0.036	0.018	0.639
94 Narrow fabric mills and schiffli embroidery	0	0	0	0	0	0	0
95 Nonwoven fabric mills	0	0	0	0	0	0	0
96 Knit fabric mills	0	0	0	0	0	0	0
97 Textile and fabric finishing mills	2.435	12	0.471	0	0.013	0.015	0.499
98 Fabric coating mills	0	0	0	0	0	0	0
99 Carpet and rug mills	0	0	0	0	0	0	0
100 Curtain and linen mills	40.517	251	8.316	0	4.284	0.16	12.761
101 Textile bag and canvas mills	4.212	38	1.681	0	0.06	0.019	1.76
102 Tire cord and tire fabric mills	0	0	0	0	0	0	0
103 Other miscellaneous textile product mills	0.255	2	0.073	0	0.005	0.001	0.079
104 Sheer hosiery mills	0	0	0	0	0	0	0
105 Other hosiery and sock mills	0	0	0	0	0	0	0
106 Other apparel knitting mills	0	0	0	0	0	0	0
107 Cut and sew apparel manufacturing	0	0	0	0	0	0	0
108 Accessories and other apparel manufacturing	0	0	0	0	0	0	0
109 Leather and hide tanning and finishing	0	0	0	0	0	0	0
110 Footwear manufacturing	0	0	0	0	0	0	0
111 Other leather product manufacturing	0	0	0	0	0	0	0
112 Sawmills	1.421	6	0.236	0	0.12	0.007	0.363
113 Wood preservation	0	0	0	0	0	0	0
114 Reconstituted wood product manufacturing	0	0	0	0	0	0	0
115 Veneer and plywood manufacturing	0	0	0	0	0	0	0
116 Engineered wood member and truss manufacturin	0	0	0	0	0	0	0
117 Wood windows and door manufacturing	0	0	0	0	0	0	0
118 Cut stock, resawing lumber, and planing	0	0	0	0	0	0	0
119 Other millwork, including flooring	20.237	124	5.597	0	0.528	0.11	6.235
120 Wood container and pallet manufacturing	0.26	3	0.067	0	0.021	0.001	0.088
121 Manufactured home, mobile home, manufacturing	1.233	9	0.347	0	0.192	0.006	0.545
122 Prefabricated wood building manufacturing	0	0	0	0	0	0	0
123 Miscellaneous wood product manufacturing	0	0	0	0	0	0	0
124 Pulp mills	0	0	0	0	0	0	0
125 Paper and paperboard mills	0	0	0	0	0	0	0
126 Paperboard container manufacturing	14.202	54	2.904	0	0.276	0.106	3.286
127 Flexible packaging foil manufacturing	0	0	0	0	0	0	0
128 Surface-coated paperboard manufacturing	0	0	0	0	0	0	0
129 Coated and laminated paper and packaging mate	0.759	3	0.079	0	0.041	0.003	0.123
130 Coated and uncoated paper bag manufacturing	0	0	0	0	0	0	0
131 Die-cut paper office supplies manufacturing	0	0	0	0	0	0	0

Appendix D: Manatee County IMPLAN Data.

Industry	Industry Output*	Employment	Employee Compensation*	Proprietor Income*	Other Property Income*	Indirect Business Tax*	Total Value Added*
132 Envelope manufacturing	0	0	0	0	0	0	0
133 Stationery and related product manufacturing	0	0	0	0	0	0	0
134 Sanitary paper product manufacturing	0	0	0	0	0	0	0
135 All other converted paper product manufacturi	0	0	0	0	0	0	0
136 Manifold business forms printing	0.826	7	0.295	0	0.387	0.009	0.692
137 Books printing	0	0	0	0	0	0	0
138 Blankbook and looseleaf binder manufacturing	0	0	0	0	0	0	0
139 Commercial printing	8.269	121	4.999	0	0.774	0.063	5.836
140 Tradebinding and related work	0.103	2	0.056	0	0.019	0.001	0.076
141 Prepress services	3.788	40	2.078	0	0.732	0.038	2.848
142 Petroleum refineries	0	0	0	0	0	0	0
143 Asphalt paving mixture and block manufacturin	0	0	0	0	0	0	0
144 Asphalt shingle and coating materials manufac	1.325	4	0.123	0	0.066	0.003	0.191
145 Petroleum lubricating oil and grease manufact	0	0	0	0	0	0	0
146 All other petroleum and coal products manufac	0	0	0	0	0	0	0
147 Petrochemical manufacturing	0	0	0	0	0	0	0
148 Industrial gas manufacturing	0	0	0	0	0	0	0
149 Synthetic dye and pigment manufacturing	0	0	0	0	0	0	0
150 Other basic inorganic chemical manufacturing	0	0	0	0	0	0	0
151 Other basic organic chemical manufacturing	0	0	0	0	0	0	0
152 Plastics material and resin manufacturing	62.033	73	4.598	0	3.042	0.259	7.9
153 Synthetic rubber manufacturing	0	0	0	0	0	0	0
154 Cellulosic organic fiber manufacturing	0	0	0	0	0	0	0
155 Noncellulosic organic fiber manufacturing	0	0	0	0	0	0	0
156 Nitrogenous fertilizer manufacturing	0	0	0	0	0	0	0
157 Phosphatic fertilizer manufacturing	0	0	0	0	0	0	0
158 Fertilizer, mixing only, manufacturing	7.17	21	1.136	0	0.582	0.049	1.767
159 Pesticide and other agricultural chemical man	61.967	74	3.014	0	9.272	0.238	12.524
160 Pharmaceutical and medicine manufacturing	0	0	0	0	0	0	0
161 Paint and coating manufacturing	1.89	4	0.201	0	0.119	0.008	0.328
162 Adhesive manufacturing	1.01	3	0.128	0	0.068	0.004	0.199
163 Soap and other detergent manufacturing	0	0	0	0	0	0	0
164 Polish and other sanitation good manufacturin	0	0	0	0	0	0	0
165 Surface active agent manufacturing	0	0	0	0	0	0	0
166 Toilet preparation manufacturing	0	0	0	0	0	0	0
167 Printing ink manufacturing	0	0	0	0	0	0	0
168 Explosives manufacturing	0	0	0	0	0	0	0
169 Custom compounding of purchased resins	0	0	0	0	0	0	0
170 Photographic film and chemical manufacturing	0	0	0	0	0	0	0
171 Other miscellaneous chemical product manufact	0	0	0	0	0	0	0
172 Plastics packaging materials, film and sheet	0.224	1	0.026	0	0.025	0.001	0.052
173 Plastics pipe, fittings, and profile shapes	0	0	0	0	0	0	0
174 Laminated plastics plate, sheet, and shapes	0	0	0	0	0	0	0
175 Plastics bottle manufacturing	0	0	0	0	0	0	0

Appendix D: Manatee County IMPLAN Data.

Industry	Industry Output*	Employment	Employee Compensation*	Proprietor Income*	Other Property Income*	Indirect Business Tax*	Total Value Added*
176 Resilient floor covering manufacturing	0	0	0	0	0	0	0
177 Plastics plumbing fixtures and all other plas	54.941	322	13.89	0	9.301	0.341	23.532
178 Foam product manufacturing	0.11	1	0.006	0	0.006	0	0.012
179 Tire manufacturing	0	0	0	0	0	0	0
180 Rubber and plastics hose and belting manufact	0	0	0	0	0	0	0
181 Other rubber product manufacturing	0	0	0	0	0	0	0
182 Vitreous china plumbing fixture manufacturing	0	0	0	0	0	0	0
183 Vitreous china and earthenware articles manuf	0	0	0	0	0	0	0
184 Porcelain electrical supply manufacturing	0	0	0	0	0	0	0
185 Brick and structural clay tile manufacturing	0	0	0	0	0	0	0
186 Ceramic wall and floor tile manufacturing	0	0	0	0	0	0	0
187 Nonclay refractory manufacturing	0	0	0	0	0	0	0
188 Clay refractory and other structural clay pro	0	0	0	0	0	0	0
189 Glass container manufacturing	30.848	96	7.639	0	4.73	0.314	12.683
190 Glass and glass products, except glass contai	8.813	43	2.263	0	1.464	0.079	3.806
191 Cement manufacturing	30.001	40	6.062	0	10.237	0.335	16.633
192 Ready-mix concrete manufacturing	23.693	106	4.86	0	2.077	0.185	7.122
193 Concrete block and brick manufacturing	1.459	5	0.503	0	0.21	0.022	0.734
194 Concrete pipe manufacturing	0	0	0	0	0	0	0
195 Other concrete product manufacturing	7.346	36	3.083	0	0.957	0.089	4.129
196 Lime manufacturing	0	0	0	0	0	0	0
197 Gypsum product manufacturing	0	0	0	0	0	0	0
198 Abrasive product manufacturing	0	0	0	0	0	0	0
199 Cut stone and stone product manufacturing	0.293	4	0.088	0	0.01	0.002	0.1
200 Ground or treated minerals and earths manufac	0	0	0	0	0	0	0
201 Mineral wool manufacturing	0	0	0	0	0	0	0
202 Miscellaneous nonmetallic mineral products	0	0	0	0	0	0	0
203 Iron and steel mills	0	0	0	0	0	0	0
204 Ferroalloy and related product manufacturing	0	0	0	0	0	0	0
205 Iron, steel pipe and tube from purchased stee	0	0	0	0	0	0	0
206 Rolled steel shape manufacturing	0	0	0	0	0	0	0
207 Steel wire drawing	0	0	0	0	0	0	0
208 Alumina refining	0	0	0	0	0	0	0
209 Primary aluminum production	0	0	0	0	0	0	0
210 Secondary smelting and alloying of aluminum	0	0	0	0	0	0	0
211 Aluminum sheet, plate, and foil manufacturing	0	0	0	0	0	0	0
212 Aluminum extruded product manufacturing	0	0	0	0	0	0	0
213 Other aluminum rolling and drawing	0	0	0	0	0	0	0
214 Primary smelting and refining of copper	0	0	0	0	0	0	0
215 Primary nonferrous metal, except copper and a	0	0	0	0	0	0	0
216 Copper rolling, drawing, and extruding	0	0	0	0	0	0	0
217 Copper wire, except mechanical, drawing	0	0	0	0	0	0	0
218 Secondary processing of copper	0	0	0	0	0	0	0
219 Nonferrous metal, except copper and aluminum,	2.422	9	0.189	0	0.019	0.01	0.218

Appendix D: Manatee County IMPLAN Data.

Industry	Industry Output*	Employment	Employee Compensation*	Proprietor Income*	Other Property Income*	Indirect Business Tax*	Total Value Added*
220 Secondary processing of other nonferrous	0	0	0	0	0	0	0
221 Ferrous metal foundries	0	0	0	0	0	0	0
222 Aluminum foundries	9.014	68	2.334	0	0.004	0.073	2.411
223 Nonferrous foundries, except aluminum	0	0	0	0	0	0	0
224 Iron and steel forging	0	0	0	0	0	0	0
225 Nonferrous forging	0	0	0	0	0	0	0
226 Custom roll forming	0	0	0	0	0	0	0
227 All other forging and stamping	5.351	35	1.478	0	0.502	0.028	2.007
228 Cutlery and flatware, except precious, manufa	0	0	0	0	0	0	0
229 Hand and edge tool manufacturing	1.969	15	0.365	0	0.203	0.008	0.576
230 Saw blade and handsaw manufacturing	0	0	0	0	0	0	0
231 Kitchen utensil, pot, and pan manufacturing	0	0	0	0	0	0	0
232 Prefabricated metal buildings and components	8.239	50	1.967	0	0.19	0.041	2.197
233 Fabricated structural metal manufacturing	22.761	136	5.761	0	3.516	0.128	9.406
234 Plate work manufacturing	0	0	0	0	0	0	0
235 Metal window and door manufacturing	39.616	282	11.907	0	5.98	0.231	18.118
236 Sheet metal work manufacturing	5.811	44	1.47	0	0.702	0.028	2.2
237 Ornamental and architectural metal work manuf	2.459	20	0.569	0	0.241	0.011	0.821
238 Power boiler and heat exchanger manufacturing	0	0	0	0	0	0	0
239 Metal tank, heavy gauge, manufacturing	0	0	0	0	0	0	0
240 Metal can, box, and other container manufactu	181.254	459	21.34	0	8.541	0.852	30.732
241 Hardware manufacturing	0	0	0	0	0	0	0
242 Spring and wire product manufacturing	0	0	0	0	0	0	0
243 Machine shops	8.294	86	3.157	0	0.332	0.053	3.541
244 Turned product and screw, nut, and bolt manuf	2.269	18	0.685	0	0.288	0.011	0.985
245 Metal heat treating	0	0	0	0	0	0	0
246 Metal coating and nonprecious engraving	1.832	19	0.437	0	0.247	0.008	0.692
247 Electroplating, anodizing, and coloring metal	7.09	58	1.993	0	0.655	0.035	2.683
248 Metal valve manufacturing	9.985	71	1.597	0	1.446	0.037	3.079
249 Ball and roller bearing manufacturing	0	0	0	0	0	0	0
250 Small arms manufacturing	0	0	0	0	0	0	0
251 Other ordnance and accessories manufacturing	0	0	0	0	0	0	0
252 Fabricated pipe and pipe fitting manufacturin	0	0	0	0	0	0	0
253 Industrial pattern manufacturing	0	0	0	0	0	0	0
254 Enameled iron and metal sanitary ware manufac	0	0	0	0	0	0	0
255 Miscellaneous fabricated metal product manufa	11.929	79	2.987	0	1.295	0.063	4.345
256 Ammunition manufacturing	0	0	0	0	0	0	0
257 Farm machinery and equipment manufacturing	0	0	0	0	0	0	0
258 Lawn and garden equipment manufacturing	1.347	4	0.071	0	0.057	0.004	0.132
259 Construction machinery manufacturing	0	0	0	0	0	0	0
260 Mining machinery and equipment manufacturing	0.122	1	0.015	0	0.005	0	0.02
261 Oil and gas field machinery and equipment	0	0	0	0	0	0	0
262 Sawmill and woodworking machinery	0	0	0	0	0	0	0
263 Plastics and rubber industry machinery	0.308	2	0.094	0	0.037	0.002	0.132

Appendix D: Manatee County IMPLAN Data.

Industry	Industry Output*	Employment	Employee Compensation*	Proprietor Income*	Other Property Income*	Indirect Business Tax*	Total Value Added*
264 Paper industry machinery manufacturing	0	0	0	0	0	0	0
265 Textile machinery manufacturing	0	0	0	0	0	0	0
266 Printing machinery and equipment manufacturin	3.827	19	1.212	0	0.04	0.01	1.262
267 Food product machinery manufacturing	3.089	20	0.886	0	0.133	0.013	1.032
268 Semiconductor machinery manufacturing	0	0	0	0	0	0	0
269 All other industrial machinery manufacturing	0	0	0	0	0	0	0
270 Office machinery manufacturing	0	0	0	0	0	0	0
271 Optical instrument and lens manufacturing	11.253	59	3.496	0	0.68	0.052	4.228
272 Photographic and photocopying equipment manuf	0	0	0	0	0	0	0
273 Other commercial and service industry machine	0	0	0	0	0	0	0
274 Automatic vending, commercial laundry and dry	0	0	0	0	0	0	0
275 Air purification equipment manufacturing	0	0	0	0	0	0	0
276 Industrial and commercial fan and blower manu	0	0	0	0	0	0	0
277 Heating equipment, except warm air furnaces	0	0	0	0	0	0	0
278 AC, refrigeration, and forced air heating	0.859	4	0.111	0	0.015	0.003	0.129
279 Industrial mold manufacturing	3.051	28	1.329	0	0.026	0.017	1.372
280 Metal cutting machine tool manufacturing	1.545	9	0.545	0	0.093	0.01	0.648
281 Metal forming machine tool manufacturing	0	0	0	0	0	0	0
282 Special tool, die, jig, and fixture manufactu	0.573	5	0.289	0	0.003	0.003	0.295
283 Cutting tool and machine tool accessory manuf	5.904	54	2.027	0	0.191	0.03	2.248
284 Rolling mill and other metalworking machinery	3.749	22	1.082	0	0.191	0.019	1.292
285 Turbine and turbine generator set units manuf	0	0	0	0	0	0	0
286 Other engine equipment manufacturing	0.984	2	0.042	0	0.026	0.001	0.069
287 Speed changers and mechanical power transmiss	0	0	0	0	0	0	0
288 Pump and pumping equipment manufacturing	0	0	0	0	0	0	0
289 Air and gas compressor manufacturing	0	0	0	0	0	0	0
290 Measuring and dispensing pump manufacturing	0	0	0	0	0	0	0
291 Elevator and moving stairway manufacturing	0	0	0	0	0	0	0
292 Conveyor and conveying equipment manufacturin	1.271	6	0.365	0	0.072	0.008	0.445
293 Overhead cranes, hoists, and monorail systems	0	0	0	0	0	0	0
294 Industrial truck, trailer, and stacker manufa	0	0	0	0	0	0	0
295 Power-driven handtool manufacturing	0	0	0	0	0	0	0
296 Welding and soldering equipment manufacturing	39.614	228	9.337	0	1.815	0.181	11.333
297 Packaging machinery manufacturing	19.854	100	8.171	0	1.498	0.131	9.8
298 Industrial process furnace and oven manufactu	0	0	0	0	0	0	0
299 Fluid power cylinder and actuator manufacturi	0	0	0	0	0	0	0
300 Fluid power pump and motor manufacturing	0	0	0	0	0	0	0
301 Scales, balances, and miscellaneous general p	0	0	0	0	0	0	0
302 Electronic computer manufacturing	41.069	61	4.858	0	0.168	0.27	5.296
303 Computer storage device manufacturing	0	0	0	0	0	0	0
304 Computer terminal manufacturing	0	0	0	0	0	0	0
305 Other computer peripheral equipment manufactu	0	0	0	0	0	0	0
306 Telephone apparatus manufacturing	2.328	5	0.083	0	0.016	0.003	0.102
307 Broadcast and wireless communications equipme	5.686	20	1.385	0	0.19	0.037	1.612

Appendix D: Manatee County IMPLAN Data.

Industry	Industry Output*	Employment	Employee Compensation*	Proprietor Income*	Other Property Income*	Indirect Business Tax*	Total Value Added*
308 Other communications equipment manufacturing	530.21	1,873	145.023	0	13.285	3.063	161.371
309 Audio and video equipment manufacturing	144.774	291	31.641	0	1.962	1.19	34.792
310 Electron tube manufacturing	0	0	0	0	0	0	0
311 Semiconductors and related device manufacturi	0	0	0	0	0	0	0
312 All other electronic component manufacturing	13.017	64	3.679	0	0.13	0.072	3.881
313 Electromedical apparatus manufacturing	0	0	0	0	0	0	0
314 Search, detection, and navigation instruments	0	0	0	0	0	0	0
315 Automatic environmental control manufacturing	0	0	0	0	0	0	0
316 Industrial process variable instruments	0	0	0	0	0	0	0
317 Totalizing fluid meters and counting devices	0	0	0	0	0	0	0
318 Electricity and signal testing instruments	0	0	0	0	0	0	0
319 Analytical laboratory instrument manufacturin	0	0	0	0	0	0	0
320 Irradiation apparatus manufacturing	0	0	0	0	0	0	0
321 Watch, clock, and other measuring and control	0	0	0	0	0	0	0
322 Software reproducing	0	0	0	0	0	0	0
323 Audio and video media reproduction	7.593	36	2.482	0	0.601	0.028	3.111
324 Magnetic and optical recording media manufact	0	0	0	0	0	0	0
325 Electric lamp bulb and part manufacturing	8.553	33	2.163	0	2.298	0.067	4.529
326 Lighting fixture manufacturing	5.849	34	1.155	0	0.702	0.037	1.894
327 Electric housewares and household fan manufac	0	0	0	0	0	0	0
328 Household vacuum cleaner manufacturing	0	0	0	0	0	0	0
329 Household cooking appliance manufacturing	0	0	0	0	0	0	0
330 Household refrigerator and home freezer manuf	0	0	0	0	0	0	0
331 Household laundry equipment manufacturing	0	0	0	0	0	0	0
332 Other major household appliance manufacturing	0	0	0	0	0	0	0
333 Electric power and specialty transformer manu	1.789	10	0.265	0	0.169	0.008	0.443
334 Motor and generator manufacturing	54.117	258	13.57	0	8.159	0.406	22.134
335 Switchgear and switchboard apparatus manufact	45.823	190	11.223	0	12.52	0.352	24.095
336 Relay and industrial control manufacturing	0	0	0	0	0	0	0
337 Storage battery manufacturing	2.015	11	0.248	0	0.108	0.007	0.363
338 Primary battery manufacturing	0	0	0	0	0	0	0
339 Fiber optic cable manufacturing	0	0	0	0	0	0	0
340 Other communication and energy wire manufactu	0	0	0	0	0	0	0
341 Wiring device manufacturing	0	0	0	0	0	0	0
342 Carbon and graphite product manufacturing	0	0	0	0	0	0	0
343 Miscellaneous electrical equipment manufactur	2.765	19	0.37	0	0.025	0.009	0.403
344 Automobile and light truck manufacturing	0	0	0	0	0	0	0
345 Heavy duty truck manufacturing	0	0	0	0	0	0	0
346 Motor vehicle body manufacturing	0	0	0	0	0	0	0
347 Truck trailer manufacturing	75.822	392	25.324	0	0.92	0.346	26.589
348 Motor home manufacturing	0	0	0	0	0	0	0
349 Travel trailer and camper manufacturing	1.738	11	0.544	0	0.044	0.005	0.593
350 Motor vehicle parts manufacturing	165.372	586	38.301	0	1.75	0.515	40.565
351 Aircraft manufacturing	4.884	12	0.885	0	0.014	0.018	0.917

Appendix D: Manatee County IMPLAN Data.

Industry	Industry Output*	Employment	Employee Compensation*	Proprietor Income*	Other Property Income*	Indirect Business Tax*	Total Value Added*
352 Aircraft engine and engine parts manufacturin	0	0	0	0	0	0	0
353 Other aircraft parts and equipment	18.409	105	5.497	0	0.933	0.065	6.495
354 Guided missile and space vehicle manufacturin	0	0	0	0	0	0	0
355 Propulsion units and parts for space vehicles	0	0	0	0	0	0	0
356 Railroad rolling stock manufacturing	0	0	0	0	0	0	0
357 Ship building and repairing	3.945	23	1.549	0	0.097	0.017	1.663
358 Boat building	85.309	524	18.57	0	11.153	0.327	30.05
359 Motorcycle, bicycle, and parts manufacturing	0.716	2	0.088	0	0.006	0.001	0.094
360 Military armored vehicles and tank parts manu	0	0	0	0	0	0	0
361 All other transportation equipment manufactur	0	0	0	0	0	0	0
362 Wood kitchen cabinet and countertop manufactu	11.302	98	3.369	0	0.719	0.071	4.159
363 Upholstered household furniture manufacturing	0	0	0	0	0	0	0
364 Nonupholstered wood household furniture manuf	0.286	3	0.051	0	0.012	0.001	0.064
365 Metal household furniture manufacturing	33.051	307	10.949	0	3.751	0.093	14.794
366 Institutional furniture manufacturing	1.534	12	0.34	0	0.123	0.003	0.466
367 Other household and institutional furniture	0	0	0	0	0	0	0
368 Wood office furniture manufacturing	7.301	42	1.486	0	0.353	0.017	1.856
369 Custom architectural woodwork and millwork	0.981	7	0.422	0	0.1	0.003	0.524
370 Office furniture, except wood, manufacturing	0	0	0	0	0	0	0
371 Showcases, partitions, shelving, and lockers	8.119	64	2.572	0	0.697	0.024	3.293
372 Mattress manufacturing	0	0	0	0	0	0	0
373 Blind and shade manufacturing	0	0	0	0	0	0	0
374 Laboratory apparatus and furniture manufactur	0	0	0	0	0	0	0
375 Surgical and medical instrument manufacturing	0.579	6	0.1	0	0.054	0.001	0.156
376 Surgical appliance and supplies manufacturing	60.371	319	16.518	0	9.753	0.219	26.49
377 Dental equipment and supplies manufacturing	1.01	8	0.237	0	0.073	0.003	0.314
378 Ophthalmic goods manufacturing	29.914	190	7.716	0	3.995	0.132	11.844
379 Dental laboratories	2.87	45	2.058	0	0.146	0.011	2.215
380 Jewelry and silverware manufacturing	4.135	30	0.756	0	0.046	0.013	0.815
381 Sporting and athletic goods manufacturing	0	0	0	0	0	0	0
382 Doll, toy, and game manufacturing	0.251	1	0.031	0	0.013	0.001	0.045
383 Office supplies, except paper, manufacturing	0.117	1	0.032	0	0.025	0.001	0.057
384 Sign manufacturing	13.387	156	5.807	0	0.671	0.069	6.547
385 Gasket, packing, and sealing device manufactu	0	0	0	0	0	0	0
386 Musical instrument manufacturing	0	0	0	0	0	0	0
387 Broom, brush, and mop manufacturing	0	0	0	0	0	0	0
388 Burial casket manufacturing	5.406	24	1.796	0	1.605	0.031	3.432
389 Buttons, pins, and all other miscellaneous ma	1.606	11	0.702	0	0.143	0.01	0.855
390 Wholesale trade	435.384	3,262	182.001	3.692	73.934	71.522	331.148
391 Air transportation	3.034	22	0.001	0.611	0.305	0.075	0.993
392 Rail transportation	14.859	46	5.438	-0.049	3.938	0.293	9.62
393 Water transportation	7.291	18	0.008	0.469	0.35	0.058	0.885
394 Truck transportation	62.942	721	15.019	5.087	6.439	0.607	27.152
395 Transit and ground passenger transportation	2.166	97	0.593	0.047	0.265	0.033	0.938

Appendix D: Manatee County IMPLAN Data.

Industry	Industry Output*	Employment	Employee Compensation*	Proprietor Income*	Other Property Income*	Indirect Business Tax*	Total Value Added*
396 Pipeline transportation	0	0	0	0	0	0	0
397 Scenic and sightseeing transportation and sup	18.988	304	6.758	6.654	0.267	2.406	16.085
398 Postal service	58.84	650	43.933	0	-0.893	0	43.039
399 Couriers and messengers	17.639	504	7.774	0.354	3.894	0.275	12.297
400 Warehousing and storage	0.776	33	0.147	0.246	0.181	0.004	0.578
401 Motor vehicle and parts dealers	185.301	2,127	82.527	11.699	24.266	26.824	145.316
402 Furniture and home furnishings stores	27	457	10.142	1.864	4.214	4.055	20.276
403 Electronics and appliance stores	27.405	436	14.629	0.585	3.631	3.423	22.268
404 Building material and garden supply stores	75.86	1,288	33.857	1.291	12.861	10.996	59.006
405 Food and beverage stores	151.003	3,054	63.724	1.662	17.984	18.69	102.061
406 Health and personal care stores	79.47	1,221	35.125	0.63	11.289	9.923	56.967
407 Gasoline stations	27.911	520	11.467	1.969	2.728	4.928	21.092
408 Clothing and clothing accessories stores	62.986	1,502	24.222	1.568	9.278	8.683	43.752
409 Sporting goods, hobby, book and music stores	31.372	810	17.118	0.818	4.551	5.186	27.674
410 General merchandise stores	118.611	2,630	60.283	0.08	22.467	17.701	100.531
411 Miscellaneous store retailers	109.676	3,199	49.26	7.291	5.198	14.513	76.263
412 Nonstore retailers	45.261	1,504	8.824	4.302	7.045	7.952	28.122
413 Newspaper publishers	43.374	374	18.399	1.1	3.75	0.311	23.559
414 Periodical publishers	1.372	9	0.25	0.012	0.095	0.005	0.363
415 Book publishers	2.478	10	0.477	0.028	0.23	0.014	0.748
416 Database, directory, and other publishers	20.1	71	3.522	0.249	4.382	0.137	8.289
417 Software publishers	0.776	8	0.224	0.035	0.109	0.007	0.374
418 Motion picture and video industries	26.591	249	2.933	0.123	0.888	0.114	4.058
419 Sound recording industries	0.073	3	0.013	0	0.035	0	0.049
420 Radio and television broadcasting	2.224	18	0.335	0.012	0.034	0.004	0.385
421 Cable networks and program distribution	0	0	0	0	0	0	0
422 Telecommunications	121.128	455	24.888	1.613	28.199	8.662	63.362
423 Information services	3.013	14	0.771	0.05	0.206	0.026	1.053
424 Data processing services	9.423	73	2.283	0.178	0.598	0.044	3.103
425 Nondepository credit intermediation and rela	31.392	203	13.603	0.056	10.446	1.38	25.486
426 Securities, commodity contracts, investments	77.025	1,396	17.434	10.649	1.155	0.725	29.962
427 Insurance carriers	51.766	293	11.554	3.181	1.219	2.254	18.208
428 Insurance agencies, brokerages, and related	85.544	1,132	30.491	6.171	43.361	0.446	80.469
429 Funds, trusts, and other financial vehicles	12.193	38	1.002	1.763	-0.422	0.111	2.454
430 Monetary authorities and depository credit in	202.243	1,151	48.949	0.176	90.756	2.455	142.337
431 Real estate	528.201	3,664	51.366	31.983	214.36	65.554	363.264
432 Automotive equipment rental and leasing	24.57	203	3.86	1.199	4.716	0.506	10.282
433 Video tape and disc rental	12.807	242	2.929	0.17	2.622	0.611	6.332
434 Machinery and equipment rental and leasing	1.812	31	0.74	0.185	0.077	0.017	1.019
435 General and consumer goods rental except vide	30.827	379	10.773	1.614	9.262	0.669	22.317
436 Lessors of nonfinancial intangible assets	96.986	12	0.507	6.847	49.406	4.612	61.372
437 Legal services	328.504	4,584	40.864	121.127	40.672	6.317	208.979
438 Accounting and bookkeeping services	136.845	2,582	13.899	39.183	3.179	0.465	56.727
439 Architectural and engineering services	278.573	4,156	35.018	94.983	4.767	1.113	135.881

Appendix D: Manatee County IMPLAN Data.

Industry	Industry Output*	Employment	Employee Compensation*	Proprietor Income*	Other Property Income*	Indirect Business Tax*	Total Value Added*
440 Specialized design services	77.558	878	7.695	15.972	8.365	0.953	32.985
441 Custom computer programming services	120.41	2,210	28.199	68.516	-8.392	0.61	88.934
442 Computer systems design services	15.27	299	2.844	8.715	-1.726	0.293	10.125
443 Other computer related services, including fa	22.153	161	1.717	5.595	3.156	0.184	10.653
444 Management consulting services	110.998	1,326	12.758	33.679	4.674	0.415	51.525
445 Environmental and other technical consulting	34.123	408	2.79	6.236	4.476	0.096	13.599
446 Scientific research and development services	1.657	29	0.15	0.407	0.021	0.005	0.583
447 Advertising and related services	76.831	1,033	5.701	17.124	3.337	0.406	26.569
448 Photographic services	19.831	316	1.171	7.889	2.31	0.462	11.831
449 Veterinary services	52.559	1,110	5.517	10.998	0.75	1.118	18.383
450 All other miscellaneous professional and tech	172.737	473	3.464	10.656	63.742	1.387	79.25
451 Management of companies and enterprises	193.043	1,319	84.871	0.095	23.761	1.826	110.552
452 Office administrative services	53.973	305	17.385	0.212	6.727	0.492	24.817
453 Facilities support services	0	0	0	0	0	0	0
454 Employment services	1,142.47	37,519	1,035.68	20.754	14.691	5.401	1,076.53
455 Business support services	13.468	274	5.766	0.14	1.599	0.273	7.778
456 Travel arrangement and reservation services	10.724	101	2.945	0.041	0.564	0.155	3.706
457 Investigation and security services	22.241	415	14.664	0.181	1.717	0.379	16.94
458 Services to buildings and dwellings	97.042	1,668	41.979	0.679	9.099	1.825	53.582
459 Other support services	7.148	95	1.59	0.02	1.246	0.067	2.923
460 Waste management and remediation services	51.035	371	12.017	2.494	6.952	1.902	23.365
461 Elementary and secondary schools	11.418	467	6.933	0.701	0	0	7.634
462 Colleges, universities, and junior colleges	0.449	12	0.131	0.024	0	0	0.155
463 Other educational services	17.58	363	5.463	0.519	0.216	0.455	6.652
464 Home health care services	23.891	716	12.849	1.326	1.637	0.084	15.897
465 Offices of physicians, dentists, and other he	366.194	4,124	211.204	22.867	46.813	2.171	283.055
466 Other ambulatory health care services	61.453	542	17.131	1.885	2.557	0.363	21.936
467 Hospitals	255.976	2,748	117.011	1.975	1.56	1.53	122.076
468 Nursing and residential care facilities	123.881	2,964	72.615	2.512	9.81	1.71	86.647
469 Child day care services	26.84	746	9.736	0.538	5.127	0.187	15.589
470 Social assistance, except child day care serv	27.605	1,005	14.053	0.768	0.357	0.093	15.271
471 Performing arts companies	1.473	94	0.44	0.217	0.012	0.046	0.715
472 Spectator sports	2.43	99	1.111	0.674	0.021	0.203	2.01
473 Independent artists, writers, and performers	5.219	23	2.083	1.099	0.494	0.082	3.759
474 Promoters of performing arts and sports and a	2.348	80	0.443	0.222	0.562	0.092	1.319
475 Museums, historical sites, zoos, and parks	2.486	39	0.451	0.617	-0.414	0.026	0.68
476 Fitness and recreational sports centers	35.197	600	19.667	0.041	2.866	2.278	24.852
477 Bowling centers	1.384	31	0.474	0.001	0.228	0.123	0.827
478 Other amusement, gambling, and recreation ind	70.814	1,031	24.6	0.083	14.21	5.447	44.34
479 Hotels and motels, including casino hotels	33.511	516	12.605	0.911	6.918	3.331	23.766
480 Other accommodations	6.825	89	1.567	0.047	0.965	0.228	2.806
481 Food services and drinking places	419.333	8,935	142.487	1.506	37.344	20.797	202.134
482 Car washes	12.262	359	3.064	0.807	2.698	0.697	7.267
483 Automotive repair and maintenance, except car	113.537	1,854	29.961	8.415	6.831	7.92	53.127

Appendix D: Manatee County IMPLAN Data.

Industry	Industry Output*	Employment	Employee Compensation*	Proprietor Income*	Other Property Income*	Indirect Business Tax*	Total Value Added*
484 Electronic equipment repair and maintenance	23.682	312	2.785	0.887	1.093	0.384	5.149
485 Commercial machinery repair and maintenance	25.707	300	5.828	1.607	2.526	0.753	10.714
486 Household goods repair and maintenance	48.989	353	5.573	1.787	7.628	1.556	16.545
487 Personal care services	37.654	813	12.715	2.215	5.057	1.363	21.351
488 Death care services	9.24	209	3.743	0.545	0.749	0.628	5.665
489 Drycleaning and laundry services	15.762	387	6.905	1.069	1.361	0.959	10.294
490 Other personal services	29.722	261	4.576	0.838	4.666	1.54	11.62
491 Religious organizations	34.838	996	29.32	0.045	0	0	29.365
492 Grantmaking and giving and social advocacy or	30.209	349	11.769	0.216	0	0.064	12.049
493 Civic, social, professional and similar organ	52.927	804	23.891	0.375	0	0.179	24.444
494 Private households	20.132	1,947	13.286	6.847	0	0	20.132
495 Federal electric utilities	0	0	0	0	0	0	0
496 Other Federal Government enterprises	0.692	5	0.26	0	0.206	0	0.466
497 State and local government passenger transit	3.119	71	4.442	0	-3.948	0	0.494
498 State and local government electric utilities	6.739	15	1.167	0	1.436	0.026	2.629
499 Other State and local government enterprises	105.454	555	29.663	0	4.634	0.02	34.318
500 Noncomparable imports	0	0	0	0	0	0	0
501 Scrap	0	0	0	0	0	0	0
502 Used and secondhand goods	0	0	0	0	0	0	0
503 State & Local Education	318.922	7,241	271.454	0	47.467	0	318.922
504 State & Local Non-Education	183.492	2,970	159.745	0	23.747	0	183.492
505 Federal Military	24.959	693	24.813	0	0.145	0	24.959
506 Federal Non-Military	15.805	183	15.546	0	0.259	0	15.805
507 Rest of the world adjustment to final uses	0	0	0	0	0	0	0
508 Inventory valuation adjustment	-1.918	0	0	0	-1.918	0	-1.918
509 Owner-occupied dwellings	793.004	0	0	0	524.161	109.78	633.941
Totals	14,406	171,569	4,809	761	2,262	530	8,362

*Millions of dollars

Agricultural Industry (\$ millions)	1,554	9,313	285	40	362	17	704
% of total	10.789%	5.4%	5.9%	5.2%	16.0%	3.2%	8.4%

Industry Output*	Employment	Employee Compensation*	Proprietor Income*	Other Property Income*	Indirect Business Tax*	Total Value Added*	
\$ 14,406,174,000		\$ 4,808,746,000	\$ 761,236,000	\$ 2,262,007,000	\$ 529,718,000	\$ 8,361,707,000	
Agricultural Industry		\$ 1,554,312,000	\$ 284,663,000	\$ 39,955,000	\$ 362,168,000	\$ 16,990,000	\$ 703,778,000

Appendix E

IMPLAN Output Multipliers, Manatee County, 2003

Appendix E: IMPLAN Output Multipliers
Manatee County, Florida

<u>Description</u>	<u>Direct Effects</u>	<u>Indirect Effects</u>	<u>Induced Effects</u>	<u>Total</u>	<u>Type I Multiplier*</u>	<u>Type SAM Multiplier**</u>
1 Oilseed farming	1.000000	0.215310	0.131474	1.346784	1.215310	1.346784
2 Grain farming	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
3 Vegetable and melon farming	1.000000	0.121913	0.189900	1.311813	1.121913	1.311813
4 Tree nut farming	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
5 Fruit farming	1.000000	0.165014	0.299315	1.464329	1.165014	1.464329
6 Greenhouse and nursery production	1.000000	0.022093	0.284649	1.306742	1.022093	1.306741
7 Tobacco farming	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
8 Cotton farming	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
9 Sugarcane and sugar beet farming	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
10 All other crop farming	1.000000	0.150043	0.148004	1.298047	1.150043	1.298047
11 Cattle ranching and farming	1.000000	0.514960	0.117307	1.632267	1.514960	1.632267
12 Poultry and egg production	1.000000	0.097346	0.122213	1.219559	1.097346	1.219559
13 Animal production, except cattle and poultry	1.000000	0.247736	0.119614	1.367349	1.247736	1.367349
14 Logging	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
15 Forest nurseries, forest products, and timber	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
16 Fishing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
17 Hunting and trapping	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
18 Agriculture and forestry support activities	1.000000	0.123294	0.642909	1.766203	1.123294	1.766203
19 Oil and gas extraction	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
20 Coal mining	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
21 Iron ore mining	1.000000	0.130151	0.265698	1.395849	1.130151	1.395849
22 Copper, nickel, lead, and zinc mining	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
23 Gold, silver, and other metal ore mining	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
24 Stone mining and quarrying	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
25 Sand, gravel, clay, and refractory mining	1.000000	0.088337	0.287390	1.375727	1.088337	1.375727
26 Other nonmetallic mineral mining	1.000000	0.107841	0.264597	1.372438	1.107841	1.372438
27 Drilling oil and gas wells	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
28 Support activities for oil and gas operations	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
29 Support activities for other mining	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
30 Power generation and supply	1.000000	0.096362	0.152175	1.248537	1.096362	1.248537
31 Natural gas distribution	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
32 Water, sewage and other systems	1.000000	0.158897	0.331163	1.490060	1.158897	1.490060
33 New residential 1-unit structures, nonfarm	1.000000	0.310967	0.237678	1.548645	1.310967	1.548645
34 New multifamily housing structures, nonfarm	1.000000	0.285251	0.321535	1.606786	1.285251	1.606786
35 New residential additions and alterations, no	1.000000	0.222410	0.303959	1.526369	1.222410	1.526369
36 New farm housing units and additions and alte	1.000000	0.286905	0.174816	1.461721	1.286905	1.461721
37 Manufacturing and industrial buildings	1.000000	0.242967	0.324853	1.567820	1.242967	1.567820
38 Commercial and institutional buildings	1.000000	0.286251	0.381613	1.667864	1.286251	1.667864
39 Highway, street, bridge, and tunnel construct	1.000000	0.241386	0.328871	1.570257	1.241386	1.570257
40 Water, sewer, and pipeline construction	1.000000	0.214166	0.380169	1.594335	1.214166	1.594335
41 Other new construction	1.000000	0.348439	0.329657	1.678096	1.348439	1.678096
42 Maintenance and repair of farm and nonfarm re	1.000000	0.234953	0.205614	1.440566	1.234953	1.440566
43 Maintenance and repair of nonresidential buil	1.000000	0.280262	0.334841	1.615102	1.280262	1.615103
44 Maintenance and repair of highways, streets,	1.000000	0.298700	0.313417	1.612117	1.298700	1.612117
45 Other maintenance and repair construction	1.000000	0.186509	0.418207	1.604716	1.186509	1.604717
46 Dog and cat food manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
47 Other animal food manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
48 Flour milling	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
49 Rice milling	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
50 Malt manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
51 Wet corn milling	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
52 Soybean processing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
53 Other oilseed processing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
54 Fats and oils refining and blending	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
55 Breakfast cereal manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
56 Sugar manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
57 Confectionery manufacturing from cacao beans	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
58 Confectionery manufacturing from purchased ch	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
59 Nonchocolate confectionery manufacturing	1.000000	0.262081	0.183561	1.445643	1.262081	1.445643
60 Frozen food manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

*Type I=(Direct + Indirect)/Direct** Type SAM =(Direct + Indirect + Induced)/Direct

Appendix E: IMPLAN Output Multipliers
Manatee County, Florida

<u>Description</u>	<u>Direct Effects</u>	<u>Indirect Effects</u>	<u>Induced Effects</u>	<u>Total</u>	<u>Type I Multiplier*</u>	<u>Type SAM Multiplier**</u>
61 Fruit and vegetable canning and drying	1.000000	0.339131	0.175502	1.514634	1.339131	1.514634
62 Fluid milk manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
63 Creamery butter manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
64 Cheese manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
65 Dry, condensed, and evaporated dairy products	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
66 Ice cream and frozen dessert manufacturing	1.000000	0.305086	0.112430	1.417516	1.305086	1.417516
67 Animal, except poultry, slaughtering	1.000000	0.898479	0.159482	2.057961	1.898479	2.057961
68 Meat processed from carcasses	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
69 Rendering and meat byproduct processing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
70 Poultry processing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
71 Seafood product preparation and packaging	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
72 Frozen cakes and other pastries manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
73 Bread and bakery product, except frozen, manu	1.000000	0.216577	0.254169	1.470746	1.216577	1.470746
74 Cookie and cracker manufacturing	1.000000	0.286238	0.162313	1.448551	1.286238	1.448551
75 Mixes and dough made from purchased flour	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
76 Dry pasta manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
77 Tortilla manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
78 Roasted nuts and peanut butter manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
79 Other snack food manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
80 Coffee and tea manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
81 Flavoring syrup and concentrate manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
82 Mayonnaise, dressing, and sauce manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
83 Spice and extract manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
84 All other food manufacturing	1.000000	0.356852	0.184087	1.540940	1.356852	1.540940
85 Soft drink and ice manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
86 Breweries	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
87 Wineries	1.000000	0.436737	0.192084	1.628821	1.436737	1.628821
88 Distilleries	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
89 Tobacco stemming and redrying	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
90 Cigarette manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
91 Other tobacco product manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
92 Fiber, yarn, and thread mills	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
93 Broadwoven fabric mills	1.000000	0.174724	0.210623	1.385347	1.174724	1.385347
94 Narrow fabric mills and schiffli embroidery	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
95 Nonwoven fabric mills	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
96 Knit fabric mills	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
97 Textile and fabric finishing mills	1.000000	0.191611	0.163142	1.354753	1.191611	1.354753
98 Fabric coating mills	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
99 Carpet and rug mills	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
100 Curtain and linen mills	1.000000	0.179426	0.167420	1.346846	1.179426	1.346846
101 Textile bag and canvas mills	1.000000	0.209697	0.290881	1.500578	1.209697	1.500578
102 Tire cord and tire fabric mills	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
103 Other miscellaneous textile product mills	1.000000	0.198586	0.221984	1.420569	1.198586	1.420569
104 Sheer hosiery mills	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
105 Other hosiery and sock mills	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
106 Other apparel knitting mills	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
107 Cut and sew apparel manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
108 Accessories and other apparel manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
109 Leather and hide tanning and finishing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
110 Footwear manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
111 Other leather product manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
112 Sawmills	1.000000	0.144297	0.133492	1.277788	1.144297	1.277789
113 Wood preservation	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
114 Reconstituted wood product manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
115 Veneer and plywood manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
116 Engineered wood member and truss manufacturin	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
117 Wood windows and door manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
118 Cut stock, resawing lumber, and planing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
119 Other millwork, including flooring	1.000000	0.244028	0.223026	1.467054	1.244028	1.467054
120 Wood container and pallet manufacturing	1.000000	0.230855	0.208316	1.439171	1.230855	1.439171

*Type I=(Direct + Indirect)/Direct** Type SAM =(Direct + Indirect + Induced)/Direct

Appendix E: IMPLAN Output Multipliers
Manatee County, Florida

<u>Description</u>	<u>Direct Effects</u>	<u>Indirect Effects</u>	<u>Induced Effects</u>	<u>Total</u>	<u>Type I Multiplier*</u>	<u>Type SAM Multiplier**</u>
121 Manufactured home, mobile home, manufacturing	1.000000	0.197543	0.214419	1.411962	1.197543	1.411962
122 Prefabricated wood building manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
123 Miscellaneous wood product manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
124 Pulp mills	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
125 Paper and paperboard mills	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
126 Paperboard container manufacturing	1.000000	0.187999	0.168699	1.356697	1.187999	1.356697
127 Flexible packaging foil manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
128 Surface-coated paperboard manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
129 Coated and laminated paper and packaging mate	1.000000	0.264635	0.122680	1.387316	1.264635	1.387316
130 Coated and uncoated paper bag manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
131 Die-cut paper office supplies manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
132 Envelope manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
133 Stationery and related product manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
134 Sanitary paper product manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
135 All other converted paper product manufacturi	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
136 Manifold business forms printing	1.000000	0.050665	0.233525	1.284190	1.050665	1.284190
137 Books printing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
138 Blankbook and looseleaf binder manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
139 Commercial printing	1.000000	0.098595	0.398068	1.496663	1.098595	1.496663
140 Tradebinding and related work	1.000000	0.125573	0.362816	1.488388	1.125573	1.488388
141 Prepress services	1.000000	0.151139	0.386983	1.538123	1.151139	1.538123
142 Petroleum refineries	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
143 Asphalt paving mixture and block manufacturin	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
144 Asphalt shingle and coating materials manufac	1.000000	0.277932	0.116152	1.394084	1.277932	1.394084
145 Petroleum lubricating oil and grease manufact	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
146 All other petroleum and coal products manufac	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
147 Petrochemical manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
148 Industrial gas manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
149 Synthetic dye and pigment manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
150 Other basic inorganic chemical manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
151 Other basic organic chemical manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
152 Plastics material and resin manufacturing	1.000000	0.221593	0.089361	1.310955	1.221593	1.310955
153 Synthetic rubber manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
154 Cellulosic organic fiber manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
155 Noncellulosic organic fiber manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
156 Nitrogenous fertilizer manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
157 Phosphatic fertilizer manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
158 Fertilizer, mixing only, manufacturing	1.000000	0.173333	0.135165	1.308498	1.173333	1.308498
159 Pesticide and other agricultural chemical man	1.000000	0.345539	0.102576	1.448114	1.345539	1.448114
160 Pharmaceutical and medicine manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
161 Paint and coating manufacturing	1.000000	0.250949	0.118669	1.369619	1.250949	1.369619
162 Adhesive manufacturing	1.000000	0.292265	0.141936	1.434200	1.292265	1.434200
163 Soap and other detergent manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
164 Polish and other sanitation good manufacturin	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
165 Surface active agent manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
166 Toilet preparation manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
167 Printing ink manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
168 Explosives manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
169 Custom compounding of purchased resins	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
170 Photographic film and chemical manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
171 Other miscellaneous chemical product manufact	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
172 Plastics packaging materials, film and sheet	1.000000	0.204431	0.114584	1.319015	1.204431	1.319015
173 Plastics pipe, fittings, and profile shapes	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
174 Laminated plastics plate, sheet, and shapes	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
175 Plastics bottle manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
176 Resilient floor covering manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
177 Plastics plumbing fixtures and all other plas	1.000000	0.187084	0.196762	1.383846	1.187084	1.383846
178 Foam product manufacturing	1.000000	0.271018	0.091359	1.362377	1.271018	1.362377
179 Tire manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
180 Rubber and plastics hose and belting manufact	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

*Type I=(Direct + Indirect)/Direct** Type SAM =(Direct + Indirect + Induced)/Direct

Appendix E: IMPLAN Output Multipliers
Manatee County, Florida

<u>Description</u>	<u>Direct Effects</u>	<u>Indirect Effects</u>	<u>Induced Effects</u>	<u>Total</u>	<u>Type I Multiplier*</u>	<u>Type SAM Multiplier**</u>
181 Other rubber product manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
182 Vitreous china plumbing fixture manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
183 Vitreous china and earthenware articles manuf	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
184 Porcelain electrical supply manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
185 Brick and structural clay tile manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
186 Ceramic wall and floor tile manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
187 Nonclay refractory manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
188 Clay refractory and other structural clay pro	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
189 Glass container manufacturing	1.000000	0.260568	0.210546	1.471114	1.260568	1.471114
190 Glass and glass products, except glass contai	1.000000	0.291945	0.220496	1.512440	1.291945	1.512440
191 Cement manufacturing	1.000000	0.180190	0.162555	1.342744	1.180190	1.342744
192 Ready-mix concrete manufacturing	1.000000	0.260062	0.183216	1.443279	1.260062	1.443279
193 Concrete block and brick manufacturing	1.000000	0.242556	0.266023	1.508579	1.242556	1.508579
194 Concrete pipe manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
195 Other concrete product manufacturing	1.000000	0.189288	0.301985	1.491274	1.189288	1.491274
196 Lime manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
197 Gypsum product manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
198 Abrasive product manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
199 Cut stone and stone product manufacturing	1.000000	0.277154	0.247060	1.524214	1.277154	1.524214
200 Ground or treated minerals and earths manufac	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
201 Mineral wool manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
202 Miscellaneous nonmetallic mineral products	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
203 Iron and steel mills	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
204 Ferroalloy and related product manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
205 Iron, steel pipe and tube from purchased stee	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
206 Rolled steel shape manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
207 Steel wire drawing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
208 Alumina refining	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
209 Primary aluminum production	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
210 Secondary smelting and alloying of aluminum	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
211 Aluminum sheet, plate, and foil manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
212 Aluminum extruded product manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
213 Other aluminum rolling and drawing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
214 Primary smelting and refining of copper	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
215 Primary nonferrous metal, except copper and a	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
216 Copper rolling, drawing, and extruding	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
217 Copper wire, except mechanical, drawing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
218 Secondary processing of copper	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
219 Nonferrous metal, except copper and aluminum,	1.000000	0.233208	0.100001	1.333209	1.233208	1.333209
220 Secondary processing of other nonferrous	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
221 Ferrous metal foundries	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
222 Aluminum foundries	1.000000	0.253125	0.219524	1.472650	1.253125	1.472650
223 Nonferrous foundries, except aluminum	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
224 Iron and steel forging	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
225 Nonferrous forging	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
226 Custom roll forming	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
227 All other forging and stamping	1.000000	0.266392	0.227478	1.493871	1.266392	1.493871
228 Cutlery and flatware, except precious, manufa	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
229 Hand and edge tool manufacturing	1.000000	0.338652	0.191978	1.530630	1.338652	1.530630
230 Saw blade and handsaw manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
231 Kitchen utensil, pot, and pan manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
232 Prefabricated metal buildings and components	1.000000	0.211232	0.195745	1.406977	1.211232	1.406977
233 Fabricated structural metal manufacturing	1.000000	0.177528	0.195509	1.373037	1.177528	1.373037
234 Plate work manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
235 Metal window and door manufacturing	1.000000	0.180112	0.226774	1.406886	1.180112	1.406886
236 Sheet metal work manufacturing	1.000000	0.203288	0.201749	1.405037	1.203288	1.405037
237 Ornamental and architectural metal work manuf	1.000000	0.228378	0.194742	1.423120	1.228378	1.423120
238 Power boiler and heat exchanger manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
239 Metal tank, heavy gauge, manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
240 Metal can, box, and other container manufactu	1.000000	0.240117	0.118722	1.358839	1.240117	1.358839

*Type I=(Direct + Indirect)/Direct** Type SAM =(Direct + Indirect + Induced)/Direct

Appendix E: IMPLAN Output Multipliers
Manatee County, Florida

<u>Description</u>	<u>Direct Effects</u>	<u>Indirect Effects</u>	<u>Induced Effects</u>	<u>Total</u>	<u>Type I Multiplier*</u>	<u>Type SAM Multiplier**</u>
241 Hardware manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
242 Spring and wire product manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
243 Machine shops	1.000000	0.334770	0.318272	1.653042	1.334770	1.653042
244 Turned product and screw, nut, and bolt manuf	1.000000	0.252641	0.243634	1.496275	1.252641	1.496275
245 Metal heat treating	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
246 Metal coating and nonprecious engraving	1.000000	0.217268	0.194508	1.411776	1.217268	1.411776
247 Electroplating, anodizing, and coloring metal	1.000000	0.330064	0.244067	1.574132	1.330064	1.574132
248 Metal valve manufacturing	1.000000	0.273593	0.158786	1.432379	1.273593	1.432379
249 Ball and roller bearing manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
250 Small arms manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
251 Other ordnance and accessories manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
252 Fabricated pipe and pipe fitting manufacturin	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
253 Industrial pattern manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
254 Enameled iron and metal sanitary ware manufac	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
255 Miscellaneous fabricated metal product manufa	1.000000	0.225991	0.203690	1.429681	1.225991	1.429681
256 Ammunition manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
257 Farm machinery and equipment manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
258 Lawn and garden equipment manufacturing	1.000000	0.408553	0.114039	1.522591	1.408553	1.522591
259 Construction machinery manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
260 Mining machinery and equipment manufacturing	1.000000	0.297196	0.143788	1.440984	1.297196	1.440984
261 Oil and gas field machinery and equipment	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
262 Sawmill and woodworking machinery	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
263 Plastics and rubber industry machinery	1.000000	0.307745	0.263752	1.571496	1.307745	1.571496
264 Paper industry machinery manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
265 Textile machinery manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
266 Printing machinery and equipment manufacturin	1.000000	0.328011	0.280043	1.608054	1.328011	1.608054
267 Food product machinery manufacturing	1.000000	0.430045	0.277112	1.707157	1.430045	1.707157
268 Semiconductor machinery manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
269 All other industrial machinery manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
270 Office machinery manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
271 Optical instrument and lens manufacturing	1.000000	0.372965	0.275140	1.648106	1.372965	1.648106
272 Photographic and photocopying equipment manuf	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
273 Other commercial and service industry machine	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
274 Automatic vending, commercial laundry and dry	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
275 Air purification equipment manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
276 Industrial and commercial fan and blower manu	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
277 Heating equipment, except warm air furnaces	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
278 AC, refrigeration, and forced air heating	1.000000	0.319054	0.150276	1.469330	1.319054	1.469330
279 Industrial mold manufacturing	1.000000	0.347950	0.353688	1.701638	1.347950	1.701638
280 Metal cutting machine tool manufacturing	1.000000	0.314707	0.297234	1.611941	1.314707	1.611941
281 Metal forming machine tool manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
282 Special tool, die, jig, and fixture manufactu	1.000000	0.312780	0.388511	1.701291	1.312780	1.701291
283 Cutting tool and machine tool accessory manuf	1.000000	0.342616	0.298003	1.640620	1.342616	1.640620
284 Rolling mill and other metalworking machinery	1.000000	0.353993	0.263827	1.617820	1.353993	1.617820
285 Turbine and turbine generator set units manuf	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
286 Other engine equipment manufacturing	1.000000	0.452050	0.116718	1.568768	1.452050	1.568768
287 Speed changers and mechanical power transmiss	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
288 Pump and pumping equipment manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
289 Air and gas compressor manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
290 Measuring and dispensing pump manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
291 Elevator and moving stairway manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
292 Conveyor and conveying equipment manufacturin	1.000000	0.273516	0.240217	1.513733	1.273516	1.513733
293 Overhead cranes, hoists, and monorail systems	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
294 Industrial truck, trailer, and stacker manufa	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
295 Power-driven handtool manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
296 Welding and soldering equipment manufacturing	1.000000	0.282096	0.214649	1.496746	1.282096	1.496746
297 Packaging machinery manufacturing	1.000000	0.277201	0.317986	1.595187	1.277201	1.595187
298 Industrial process furnace and oven manufactu	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
299 Fluid power cylinder and actuator manufacturi	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
300 Fluid power pump and motor manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

*Type I=(Direct + Indirect)/Direct** Type SAM =(Direct + Indirect + Induced)/Direct

Appendix E: IMPLAN Output Multipliers
Manatee County, Florida

<u>Description</u>	<u>Direct Effects</u>	<u>Indirect Effects</u>	<u>Induced Effects</u>	<u>Total</u>	<u>Type I Multiplier*</u>	<u>Type SAM Multiplier**</u>
301 Scales, balances, and miscellaneous general p	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
302 Electronic computer manufacturing	1.000000	0.406537	0.139068	1.545606	1.406537	1.545606
303 Computer storage device manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
304 Computer terminal manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
305 Other computer peripheral equipment manufactu	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
306 Telephone apparatus manufacturing	1.000000	0.477707	0.121806	1.599513	1.477707	1.599513
307 Broadcast and wireless communications equipme	1.000000	0.335208	0.221407	1.556615	1.335208	1.556615
308 Other communications equipment manufacturing	1.000000	0.422675	0.261821	1.684496	1.422675	1.684496
309 Audio and video equipment manufacturing	1.000000	0.322699	0.225984	1.548683	1.322699	1.548683
310 Electron tube manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
311 Semiconductors and related device manufacturi	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
312 All other electronic component manufacturing	1.000000	0.301710	0.241748	1.543458	1.301710	1.543458
313 Electromedical apparatus manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
314 Search, detection, and navigation instruments	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
315 Automatic environmental control manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
316 Industrial process variable instruments	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
317 Totalizing fluid meters and counting devices	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
318 Electricity and signal testing instruments	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
319 Analytical laboratory instrument manufacturin	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
320 Irradiation apparatus manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
321 Watch, clock, and other measuring and control	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
322 Software reproducing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
323 Audio and video media reproduction	1.000000	0.334372	0.294245	1.628617	1.334372	1.628617
324 Magnetic and optical recording media manufact	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
325 Electric lamp bulb and part manufacturing	1.000000	0.229419	0.206826	1.436245	1.229419	1.436245
326 Lighting fixture manufacturing	1.000000	0.315747	0.189879	1.505626	1.315747	1.505626
327 Electric housewares and household fan manufac	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
328 Household vacuum cleaner manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
329 Household cooking appliance manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
330 Household refrigerator and home freezer manuf	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
331 Household laundry equipment manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
332 Other major household appliance manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
333 Electric power and specialty transformer manu	1.000000	0.334060	0.169591	1.503651	1.334060	1.503651
334 Motor and generator manufacturing	1.000000	0.232621	0.207684	1.440305	1.232621	1.440305
335 Switchgear and switchboard apparatus manufact	1.000000	0.194851	0.196241	1.391091	1.194851	1.391091
336 Relay and industrial control manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
337 Storage battery manufacturing	1.000000	0.348124	0.156836	1.504959	1.348124	1.504959
338 Primary battery manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
339 Fiber optic cable manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
340 Other communication and energy wire manufactu	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
341 Wiring device manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
342 Carbon and graphite product manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
343 Miscellaneous electrical equipment manufactur	1.000000	0.416035	0.173674	1.589709	1.416035	1.589709
344 Automobile and light truck manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
345 Heavy duty truck manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
346 Motor vehicle body manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
347 Truck trailer manufacturing	1.000000	0.297957	0.266001	1.563957	1.297957	1.563957
348 Motor home manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
349 Travel trailer and camper manufacturing	1.000000	0.261651	0.246250	1.507901	1.261651	1.507901
350 Motor vehicle parts manufacturing	1.000000	0.346167	0.213595	1.559762	1.346167	1.559762
351 Aircraft manufacturing	1.000000	0.335427	0.187054	1.522482	1.335427	1.522482
352 Aircraft engine and engine parts manufacturin	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
353 Other aircraft parts and equipment	1.000000	0.293532	0.254329	1.547860	1.293532	1.547860
354 Guided missile and space vehicle manufacturin	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
355 Propulsion units and parts for space vehicles	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
356 Railroad rolling stock manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
357 Ship building and repairing	1.000000	0.224572	0.291882	1.516454	1.224572	1.516454
358 Boat building	1.000000	0.206052	0.176902	1.382954	1.206052	1.382954
359 Motorcycle, bicycle, and parts manufacturing	1.000000	0.269549	0.138726	1.408275	1.269549	1.408275
360 Military armored vehicles and tank parts manu	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

*Type I=(Direct + Indirect)/Direct** Type SAM =(Direct + Indirect + Induced)/Direct

Appendix E: IMPLAN Output Multipliers
Manatee County, Florida

<u>Description</u>	<u>Direct Effects</u>	<u>Indirect Effects</u>	<u>Induced Effects</u>	<u>Total</u>	<u>Type I Multiplier*</u>	<u>Type SAM Multiplier**</u>
361 All other transportation equipment manufactur	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
362 Wood kitchen cabinet and countertop manufactu	1.000000	0.263508	0.240639	1.504147	1.263508	1.504147
363 Upholstered household furniture manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
364 Nonupholstered wood household furniture manuf	1.000000	0.365435	0.189091	1.554526	1.365435	1.554526
365 Metal household furniture manufacturing	1.000000	0.232636	0.256125	1.488761	1.232636	1.488761
366 Institutional furniture manufacturing	1.000000	0.343257	0.210132	1.553390	1.343257	1.553390
367 Other household and institutional furniture	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
368 Wood office furniture manufacturing	1.000000	0.592846	0.225568	1.818414	1.592846	1.818414
369 Custom architectural woodwork and millwork	1.000000	0.219618	0.314307	1.533925	1.219618	1.533925
370 Office furniture, except wood, manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
371 Showcases, partitions, shelving, and lockers	1.000000	0.253671	0.250779	1.504450	1.253671	1.504450
372 Mattress manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
373 Blind and shade manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
374 Laboratory apparatus and furniture manufactur	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
375 Surgical and medical instrument manufacturing	1.000000	0.385355	0.191908	1.577263	1.385355	1.577263
376 Surgical appliance and supplies manufacturing	1.000000	0.282221	0.231424	1.513645	1.282221	1.513645
377 Dental equipment and supplies manufacturing	1.000000	0.349124	0.227754	1.576878	1.349124	1.576878
378 Ophthalmic goods manufacturing	1.000000	0.392411	0.245121	1.637531	1.392411	1.637531
379 Dental laboratories	1.000000	0.113449	0.470229	1.583678	1.113449	1.583678
380 Jewelry and silverware manufacturing	1.000000	0.280730	0.179860	1.460590	1.280730	1.460590
381 Sporting and athletic goods manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
382 Doll, toy, and game manufacturing	1.000000	0.333994	0.149902	1.483896	1.333994	1.483896
383 Office supplies, except paper, manufacturing	1.000000	0.211106	0.213586	1.424692	1.211106	1.424692
384 Sign manufacturing	1.000000	0.223134	0.315633	1.538767	1.223134	1.538767
385 Gasket, packing, and sealing device manufactu	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
386 Musical instrument manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
387 Broom, brush, and mop manufacturing	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
388 Burial casket manufacturing	1.000000	0.140030	0.237062	1.377093	1.140030	1.377093
389 Buttons, pins, and all other miscellaneous ma	1.000000	0.176089	0.310526	1.486615	1.176089	1.486615
390 Wholesale trade	1.000000	0.166528	0.305522	1.472051	1.166528	1.472051
391 Air transportation	1.000000	0.459941	0.244516	1.704457	1.459941	1.704457
392 Rail transportation	1.000000	0.213023	0.283412	1.496434	1.213023	1.496434
393 Water transportation	1.000000	0.597242	0.211733	1.808975	1.597242	1.808975
394 Truck transportation	1.000000	0.325971	0.278101	1.604072	1.325971	1.604072
395 Transit and ground passenger transportation	1.000000	0.322964	0.259130	1.582094	1.322964	1.582094
396 Pipeline transportation	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
397 Scenic and sightseeing transportation and sup	1.000000	0.114142	0.486389	1.600531	1.114142	1.600531
398 Postal service	1.000000	0.164966	0.500284	1.665250	1.164966	1.665250
399 Couriers and messengers	1.000000	0.171404	0.325130	1.496533	1.171404	1.496533
400 Warehousing and storage	1.000000	0.169867	0.365087	1.534954	1.169867	1.534954
401 Motor vehicle and parts dealers	1.000000	0.168281	0.356990	1.525271	1.168281	1.525271
402 Furniture and home furnishings stores	1.000000	0.194209	0.323372	1.517581	1.194209	1.517581
403 Electronics and appliance stores	1.000000	0.146196	0.378994	1.525190	1.146196	1.525190
404 Building material and garden supply stores	1.000000	0.173261	0.327709	1.500971	1.173261	1.500971
405 Food and beverage stores	1.000000	0.252764	0.326282	1.579046	1.252764	1.579046
406 Health and personal care stores	1.000000	0.220831	0.329526	1.550357	1.220831	1.550357
407 Gasoline stations	1.000000	0.190516	0.345456	1.535972	1.190516	1.535972
408 Clothing and clothing accessories stores	1.000000	0.238146	0.309061	1.547207	1.238146	1.547207
409 Sporting goods, hobby, book and music stores	1.000000	0.091925	0.377452	1.469377	1.091925	1.469377
410 General merchandise stores	1.000000	0.118875	0.343122	1.461997	1.118875	1.461997
411 Miscellaneous store retailers	1.000000	0.237586	0.377042	1.614628	1.237586	1.614628
412 Nonstore retailers	1.000000	0.295313	0.250988	1.546300	1.295313	1.546300
413 Newspaper publishers	1.000000	0.210534	0.333160	1.543693	1.210534	1.543693
414 Periodical publishers	1.000000	0.380841	0.216123	1.596964	1.380841	1.596964
415 Book publishers	1.000000	0.370419	0.220119	1.590538	1.370419	1.590538
416 Database, directory, and other publishers	1.000000	0.314217	0.182593	1.496810	1.314217	1.496810
417 Software publishers	1.000000	0.320797	0.287697	1.608494	1.320797	1.608494
418 Motion picture and video industries	1.000000	0.815047	0.195215	2.010262	1.815047	2.010262
419 Sound recording industries	1.000000	0.213624	0.167125	1.380749	1.213624	1.380749
420 Radio and television broadcasting	1.000000	0.501980	0.175350	1.677330	1.501980	1.677330

*Type I=(Direct + Indirect)/Direct** Type SAM =(Direct + Indirect + Induced)/Direct

Appendix E: IMPLAN Output Multipliers
Manatee County, Florida

<u>Description</u>	<u>Direct Effects</u>	<u>Indirect Effects</u>	<u>Induced Effects</u>	<u>Total</u>	<u>Type I Multiplier*</u>	<u>Type SAM Multiplier**</u>
421 Cable networks and program distribution	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
422 Telecommunications	1.000000	0.327538	0.202870	1.530407	1.327538	1.530407
423 Information services	1.000000	0.446958	0.273058	1.720015	1.446958	1.720015
424 Data processing services	1.000000	0.443741	0.276372	1.720113	1.443741	1.720113
425 Nondepository credit intermediation and rela	1.000000	0.135764	0.303522	1.439286	1.135764	1.439286
426 Securities, commodity contracts, investments	1.000000	0.455113	0.341303	1.796416	1.455113	1.796416
427 Insurance carriers	1.000000	0.407067	0.282659	1.689726	1.407067	1.689726
428 Insurance agencies, brokerages, and related	1.000000	0.041461	0.280443	1.321904	1.041461	1.321904
429 Funds, trusts, and other financial vehicles	1.000000	0.606459	0.290986	1.897445	1.606459	1.897445
430 Monetary authorities and depository credit in	1.000000	0.226132	0.200611	1.426743	1.226132	1.426743
431 Real estate	1.000000	0.255790	0.156938	1.412727	1.255790	1.412727
432 Automotive equipment rental and leasing	1.000000	0.446400	0.227878	1.674278	1.446400	1.674278
433 Video tape and disc rental	1.000000	0.438684	0.222545	1.661229	1.438684	1.661229
434 Machinery and equipment rental and leasing	1.000000	0.331538	0.397211	1.728749	1.331538	1.728749
435 General and consumer goods rental except vide	1.000000	0.195811	0.296720	1.492531	1.195811	1.492531
436 Lessors of nonfinancial intangible assets	1.000000	0.216307	0.100721	1.317028	1.216307	1.317028
437 Legal services	1.000000	0.286500	0.391791	1.678291	1.286500	1.678291
438 Accounting and bookkeeping services	1.000000	0.463910	0.364705	1.828615	1.463910	1.828615
439 Architectural and engineering services	1.000000	0.437098	0.418780	1.855878	1.437098	1.855878
440 Specialized design services	1.000000	0.466035	0.313105	1.779140	1.466035	1.779140
441 Custom computer programming services	1.000000	0.189400	0.579285	1.768685	1.189400	1.768685
442 Computer systems design services	1.000000	0.254062	0.566945	1.821007	1.254062	1.821007
443 Other computer related services, including fa	1.000000	0.372518	0.305366	1.677884	1.372518	1.677884
444 Management consulting services	1.000000	0.391847	0.369833	1.761680	1.391847	1.761680
445 Environmental and other technical consulting	1.000000	0.462472	0.292765	1.755237	1.462472	1.755237
446 Scientific research and development services	1.000000	0.460226	0.327725	1.787951	1.460226	1.787951
447 Advertising and related services	1.000000	0.544700	0.317042	1.861741	1.544700	1.861741
448 Photographic services	1.000000	0.298292	0.367340	1.665632	1.298292	1.665632
449 Veterinary services	1.000000	0.305881	0.278890	1.584771	1.305881	1.584771
450 All other miscellaneous professional and tech	1.000000	0.467066	0.163361	1.630427	1.467066	1.630427
451 Management of companies and enterprises	1.000000	0.371054	0.355144	1.726198	1.371054	1.726198
452 Office administrative services	1.000000	0.424971	0.314187	1.739158	1.424971	1.739158
453 Facilities support services	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
454 Employment services	1.000000	0.046070	0.587087	1.633157	1.046070	1.633157
455 Business support services	1.000000	0.293670	0.345277	1.638947	1.293670	1.638947
456 Travel arrangement and reservation services	1.000000	0.518079	0.300431	1.818510	1.518079	1.818510
457 Investigation and security services	1.000000	0.167676	0.457065	1.624742	1.167676	1.624742
458 Services to buildings and dwellings	1.000000	0.299080	0.349679	1.648759	1.299080	1.648759
459 Other support services	1.000000	0.392849	0.235465	1.628313	1.392849	1.628313
460 Waste management and remediation services	1.000000	0.399895	0.257290	1.657185	1.399895	1.657185
461 Elementary and secondary schools	1.000000	0.295978	0.478784	1.774762	1.295978	1.774762
462 Colleges, universities, and junior colleges	1.000000	0.486326	0.304300	1.790626	1.486326	1.790626
463 Other educational services	1.000000	0.453449	0.318955	1.772404	1.453449	1.772404
464 Home health care services	1.000000	0.243410	0.430453	1.673863	1.243410	1.673863
465 Offices of physicians, dentists, and other he	1.000000	0.168063	0.442190	1.610252	1.168063	1.610252
466 Other ambulatory health care services	1.000000	0.411319	0.290002	1.701321	1.411319	1.701321
467 Hospitals	1.000000	0.339626	0.366709	1.706335	1.339626	1.706334
468 Nursing and residential care facilities	1.000000	0.212801	0.425226	1.638026	1.212801	1.638026
469 Child day care services	1.000000	0.274527	0.295237	1.569765	1.274527	1.569764
470 Social assistance, except child day care serv	1.000000	0.273459	0.395001	1.668461	1.273459	1.668461
471 Performing arts companies	1.000000	0.378066	0.387007	1.765073	1.378066	1.765073
472 Spectator sports	1.000000	0.073513	0.489177	1.562690	1.073513	1.562690
473 Independent artists, writers, and performers	1.000000	0.121020	0.415438	1.536458	1.121020	1.536458
474 Promoters of performing arts and sports and a	1.000000	0.271433	0.249282	1.520715	1.271433	1.520715
475 Museums, historical sites, zoos, and parks	1.000000	0.508377	0.389226	1.897602	1.508377	1.897602
476 Fitness and recreational sports centers	1.000000	0.234141	0.393580	1.627721	1.234141	1.627721
477 Bowling centers	1.000000	0.296991	0.276044	1.573035	1.296991	1.573035
478 Other amusement, gambling, and recreation ind	1.000000	0.273069	0.277938	1.551006	1.273069	1.551006
479 Hotels and motels, including casino hotels	1.000000	0.228657	0.301541	1.530198	1.228657	1.530198
480 Other accommodations	1.000000	0.432660	0.237986	1.670646	1.432660	1.670646

*Type I=(Direct + Indirect)/Direct** Type SAM =(Direct + Indirect + Induced)/Direct

Appendix E: IMPLAN Output Multipliers
Manatee County, Florida

<u>Description</u>	<u>Direct Effects</u>	<u>Indirect Effects</u>	<u>Induced Effects</u>	<u>Total</u>	<u>Type I Multiplier*</u>	<u>Type SAM Multiplier**</u>
481 Food services and drinking places	1.000000	0.249329	0.263019	1.512349	1.249329	1.512349
482 Car washes	1.000000	0.306858	0.267634	1.574492	1.306858	1.574492
483 Automotive repair and maintenance, except car	1.000000	0.409731	0.293231	1.702962	1.409731	1.702962
484 Electronic equipment repair and maintenance	1.000000	0.409033	0.189345	1.598378	1.409033	1.598378
485 Commercial machinery repair and maintenance	1.000000	0.268281	0.242798	1.511080	1.268281	1.511080
486 Household goods repair and maintenance	1.000000	0.291615	0.160036	1.451651	1.291615	1.451651
487 Personal care services	1.000000	0.316534	0.315661	1.632195	1.316534	1.632195
488 Death care services	1.000000	0.197728	0.336146	1.533874	1.197728	1.533874
489 Drycleaning and laundry services	1.000000	0.228711	0.366952	1.595663	1.228711	1.595663
490 Other personal services	1.000000	0.403938	0.199974	1.603912	1.403938	1.603912
491 Religious organizations	1.000000	0.133902	0.548397	1.682299	1.133902	1.682299
492 Grantmaking and giving and social advocacy or	1.000000	0.449621	0.354848	1.804470	1.449621	1.804470
493 Civic, social, professional and similar organ	1.000000	0.379692	0.369754	1.749447	1.379692	1.749447
494 Private households	1.000000	0.000000	0.638976	1.638976	1.000000	1.638976
495 Federal electric utilities	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
496 Other Federal Government enterprises	1.000000	0.192021	0.279187	1.471208	1.192021	1.471208
497 State and local government passenger transit	1.000000	0.372637	0.978019	2.350656	1.372637	2.350656
498 State and local government electric utilities	1.000000	0.264172	0.178146	1.442317	1.264172	1.442317
499 Other State and local government enterprises	1.000000	0.422727	0.276053	1.698780	1.422727	1.698780
500 Noncomparable imports	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
501 Scrap	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
502 Used and secondhand goods	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
503 State & Local Education	1.000000	0.000000	0.529476	1.529476	1.000000	1.529476
504 State & Local Non-Education	1.000000	0.000000	0.541556	1.541556	1.000000	1.541556
505 Federal Military	1.000000	0.000000	0.618444	1.618444	1.000000	1.618444
506 Federal Non-Military	1.000000	0.000000	0.611867	1.611867	1.000000	1.611867
507 Rest of the world adjustment to final uses	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
508 Inventory valuation adjustment	1.000000	0.000000	0.000000	1.000000	1.000000	1.000000
509 Owner-occupied dwellings	1.000000	0.128288	0.028070	1.156358	1.128288	1.156358

*Type I=(Direct + Indirect)/Direct** Type SAM =(Direct + Indirect + Induced)/Direct