

The University of Georgia

Center for Agribusiness and Economic Development College of Agricultural and Environmental Sciences

Economic Contribution of Turfgrass Production, Ornamental Horticulture, Landscape Services, and Related Industry in the Georgia Economy, 2010

> Prepared by: Sharon P. Kane and Kent L. Wolfe Center Report: CR-12-05 May 2012



Economic Contribution of Turfgrass Production, Ornamental Horticulture, Landscape Services, and Related Industry in the Georgia Economy, 2010

Prepared by:

Sharon P. Kane and Kent L. Wolfe

May 31, 2012

This project was supported by a grant from the USDA Agricultural Marketing Service, Specialty Crop Block Grant Program, and administered through the Georgia Department of Agriculture.

Table of Contents

Executive Summary	i
Brief Background and Overview	1
Methodology	2
Economic Contribution	4
About the IMPLAN Model	8
References	8
Appendix I: NAICS Definitions	10

Tables and Figures

Table 1. Economic Contributions of "Green Industry" in Georgia, 2007-08	3
Table 2. Number of Establishments in Turfgrass Production, Ornamental Horticulture, Landscaping	
Services, and Related Industry, Georgia 2010	4
Table 3. Overview of Economic Contribution of Turfgrass and Related Industry in Georgia, 2010	5
Table 4. Georgia Turfgrass and Related Industry Employment Contribution by Major Sector, 2010	6
Table 5. Top Ten Industries Affected, by Employment 2010	6
Table 6. State & Local Tax Impact, Georgia 2010	7
Table 7. Federal Tax Impact, Georgia 2010	7

Executive Summary

The Center for Agribusiness and Economic Development (CAED) is working with the Georgia Center for Urban Agriculture to assist with the objective of determining a baseline of the size, scope, and economic impact of the turfgrass and related industries in Georgia, from which progress can be measured. The result is an analysis of the economic contribution of the those defined as Turfgrass Production, Ornamental Horticulture, Landscape Services, and Related (hereafter "Turfgrass and Related") industry in the Georgia economy in 2010. Highlights of the study include:

- Overall, the Turfgrass and Related industry directly contributes \$4.0 billion in output, and indirectly another \$3.8 billion for a total of \$7.8 billion of Georgia's over \$700 billion economy. The industry also directly and indirectly accounts for a total of nearly 87,000 full- and part-time jobs.
- In terms of earnings, the industry directly contributes over \$2.0 billion, and indirectly adds another \$1.4 billion for a total contribution to the Georgia economy of \$3.4 billion. The value added direct contribution is \$2.2 billion, with indirect value added of another \$2.4 billion for a total of \$4.6 billion.
- The Turfgrass and Related industry affects major sectors throughout the Georgia economy. Of the over 87,000 jobs, the largest contribution is in the service sector for a total of 61,284 full- and part-time jobs. This is followed by the trade sector with a total of 15,639 and agriculture, which accounts for a total of 6,324 jobs.
- Given the linkages throughout the economy, the contribution of the Turfgrass and Related sectors affects over 93% of the Georgia sectors. The largest overall contribution in terms of output is in the service sector of \$5.0 billion, followed by the trade sector at \$1.2 billion. It is apparent that the total contribution of the Georgia Turfgrass and Related industry spans across the major sectors.
- The top industries (ranked by employment) affected by the Turfgrass and Related industry both directly and indirectly include services to buildings and dwellings (38,242 jobs), greenhouse, nursery, floriculture production (5,866 jobs), building material and garden supply stores (5,599 jobs), food services and drinking places (2,818), and miscellaneous retail stores (2,415 jobs).
- Another facet of the impact of the industry includes the tax impact. For the Turfgrass and Related industry, the state and local tax impact is over \$388 million, while the federal totals over \$649 million, including household, business, and corporate taxes.

Brief Background and Overview

The Center for Agribusiness and Economic Development (CAED) is working with the Georgia Center for Urban Agriculture as part of a Specialty Crop Block Grant to assist with the objective of establishing a "baseline of the size, scope, and economic impact of the integrated turfgrass industry in Georgia, from which progress can be measured." In setting out the scope of this study, researchers reviewed other studies that measured and analyzed the industry or portions of the industry (with varying definitions) in Georgia or nationally.

The first is the annual Ag Snapshots (Kane and Luke-Morgan 2012) based on the unique Farm Gate Value Report (Wolfe and Luke-Morgan 2011), which found that the industry described as ornamental horticulture provided an economic contribution to the Georgia economy in 2010 of approximately \$6.1 billion and nearly 70,000 jobs. This analysis is based on a comprehensive survey of the direct county farm gate values for greenhouse, container nursery, turfgrass, and field nursery production and the resulting economic effects on the directly- related industries¹. Another analysis is the "Size and Value of the Professional Turfgrass and Environmental Horticulture Industry in Georgia" featured on the Georgia Center for Urban Agriculture website showing the contributions of various sectors in terms of revenue, employees, and over 6,800 firms. This analysis include total revenues of \$8.2 billion, nearly 80,000 employees, and over 6,800 firms. This analysis included the sectors described as the greenhouse, nursery, container, field, landscape installation & maintenance, retail garden centers, turfgrass growers, golf courses and related business, re-wholesalers, landscape architects, and florists.

A Southern Cooperative Series Bulletin report (Hodges, Hall et al. 2011) examines the economic contributions of what they refer to as the green industry for 2007-8 and reviews recent reports (1978-2009) from state-level analyses throughout the U.S. Their report outlines an approach to make consistent evaluations of the industry for the future and publishes findings for the most recent year available given data limitations (see Table 1 for a summary of their findings from Georgia by sector). An advantage of their approach is that they build consistent estimates of green industry impact for each state, enabling a total estimate for the entire U.S. According to Dr. Hodges (Hodges 2011), they are planning to update the study in 2014-15 with underlying data from the 2012 Economic Census and the

¹ These directly-related industries are sometimes referred to as "first-line" related, indicating that they purchase a product directly from another industry and use it to make their final product. In this study, the analysis will go beyond first-line all the way to the retail consumer.

² http://apps.caes.uga.edu/urbanag/indeconomics.cfm

2013 National Nursery Survey. Their findings for Georgia show an overall total of \$6.3 billion output, nearly 66,000 jobs, \$1.8 billion in earnings impact, and \$3.8 billion in value-added impact³. *Methodology*

This analysis builds upon the foundations of the approaches mentioned, given available data and the desire for a benchmark to measure future changes in the sector. Largely, the industry definition will be coming from the Hodges, et al., study⁴. The economic analysis of the contributions of the industry to the Georgia economy in this study will be based on the IMPLAN model protocol for multi-sector contribution analysis⁵.

As described by the providers of the IMPLAN model (MIG 2010), an economic contribution analysis describes how much of a particular geographic area's economy can be credited to an existing industry, event, or policy. The contribution analysis utilizes data existing within the model to identify all backward linkages in the study area related to the subject. In this case, the total amount of output for the sector (also referred to as sales or revenue) – not just purchases made by the end consumer – provides the initial effects of the analysis. Comparing these results to the rest of the economy offers unique insight into the relative extent and magnitude of the industry, event, or policy within the geographic region.

Because of model customization required to perform this type of analysis, the direct and indirect effects relate to all sales, not just final sales as in a typical economic impact analysis. As seen in the tables in the results section of this report, the direct effects should be interpreted as all sales by the industry in Georgia and the indirect effects should be interpreted as all sales by the industry supply chain, or any industries from which purchases must be made to produce final output. For example, the purchase of seed, transportation services, water, or electricity would all be part of the supply chain or "backward linkages" to the sector. The induced effects are the response by an economy to an initial change (the direct effect) resulting from re-spending of income received by households, causing further local economic activity.

³ The values found in the Hodges, Hall, and Palma study vary from those in the current effort, not just because of different years of analysis (2007 vs. 2010), but also background data for certain portions and the application of RIMSII multipliers vs. IMPLAN contribution analysis.

⁴ Hodges, Hall and Palma contains detailed descriptions of their methodology and review of previous research efforts. We use the same proportion of retail sectors attributable to horticulture-related sales based on the 2007 Economic Census, customized to correspond to IMPLAN aggregated sectors. Further, we apply Farm Gate Value data and data internal to the model as applicable. The establishment data for sectors is based on the Georgia Department of Labor Annual Covered Employment and Wages (2010). Unless otherwise noted, all estimates are for the calendar year 2010.

⁵ A full description of the approach can be found on the MIG, Inc. website:

http://implan.com/V4/index.php?option=com_multicategories&view=article&id=660:660&Itemid=14

Table 1. Economic Contributions of "Green Industry" in Georgia, 2007-08	

Industry Group / Sector (NAICS)	# Establishments	Horticultural Sales (Mn\$)	Horticultural Output (Mn\$)	Output Impact (Mn\$)	Horticultural Employment (jobs)	Employment Impact (jobs)	Horticultural Payroll (Mn\$)	Earnings Impact (Mn\$)	Value Added Impact (Mn\$)
Production and Manufacturing	441	1,595	1,595	2,302	12,493	18,153	350	522	1,305
Nursery and greenhouse production (1114)	435	1,014	1,014	1,474	11,387	15,664	310	435	987
Lawn and garden equipment manufacturing (333112)	6	581	581	828	1,106	2,489	40	87	318
Horticultural Services	3,016	1,877	1,877	2,867	20,303	35,004	569	888	1,703
Landscaping services (56173)	2,838	1,762	1,762	2,731	19,383	33,912	526	839	1,607
Landscape architectural services (54132)	178	114	114	136	920	1,092	42	49	96
Wholesale and Retail Trade	40,972	2,785	767	1,160	8,843	12,732	247	368	791
Building material and garden equipment and supplies dealers (444)	2,793	1,285	392	608	5,424	7,897	147	215	412
Merchant wholesalers, durable goods (423)	8,468	706	170	276	707	1,521	40	72	189
Miscellaneous store retailers (453)	3,233	125	54	73	1,044	1,252	18	24	50
General merchandise stores (452)	1,797	186	49	49	916	916	18	18	34
Merchant wholesalers, nondurable goods (424)	3,791	291	48	83	201	434	10	21	57
Food and beverage stores (445)	3,818	61	18	19	337	352	6	6	13
Wholesale electronic markets and agents and brokers (425)	1,906	85	17	28	43	126	2	5	19
Nonstore retailers (454)	1,676	23	10	12	57	77	2	2	8
Furniture and home furnishings stores (442)	2,275	21	9	13	105	148	3	4	9
Sporting goods, hobby, book, and music stores (451)	1,476	1	0	0	5	5	0	0	0
Electronics and appliance stores (443)	1,605	1	0	0	3	3	0	0	0
Health and personal care stores (446)	2,889	0	0	0	1	1	0	0	0
Gasoline stations (447)	5,245	0	0	0	0	0	0	0	0
Grand Total	44,429	6,256	4,239	6,330	41,639	65,889	1,165	1,779	3,800

Source: Unpublished table from Hodges, Hall, and Palma (2011)

Economic Contribution

The economic contribution that begins with turfgrass production, ornamental horticulture, landscaping services, and related industries encompasses other industries as the effects of the economic activity generated ripple throughout the state economy. For this study, the industry is directly defined as consisting of production and manufacturing, which covers greenhouse, nursery, and lawn/garden equipment; horticultural services, comprised of landscaping and landscape architectural services; and portions of the wholesale and retail trade sectors to incorporate the turfgrass and related industry products that are part of their sales⁶. The breakdown allows analysis from the point of production to the final user. The sectors can be seen in Table 2, which includes the North American Industry Classification System (NAICS) code sectors that comprise the system and highlights the number of establishments in each. The complete list of NAICS code definitions can be found in Appendix I⁷.

Table 2. Number of Establishments in Turfgrass Production, Ornamental Horticulture, Landscaping Services, and Related Industry, Georgia 2010

Inductory Crown / Sector (NAICS)	2010
Industry Group / Sector (NAICS)	Establishments (#)
Production and Manufacturing Total	206
Greenhouse and nursery production (1114)	200
Lawn and garden equipment manufacturing (333112)	6
Horticultural Services Total	2,998
Landscaping services (56173)	2,849
Landscape architectural services (54132)	149
Wholesale and Retail Trade Total	24,130
Building material and garden supply stores (444)	1,986
Merchant wholesalers, durable goods (423)	7,451
Miscellaneous store retailers (453)	2,888
General merchandise stores (452)	2,174
Merchant wholesalers, nondurable goods (424)	3,273
Food and beverage stores (445)	3,519
Nonstore retailers (454)	1,094
Furniture and home furnishings stores (442)	1,745
Grand Total	27,334

⁶ The methodology applied allows for counting all of these effects without double-counting.

⁷ Please note that, although portions of the Wholesale and Retail Trade sector output or sales have been used for this analysis, the number of establishments is for the entire sector as given in the Georgia Department of Labor Annual Covered Employment and Wages data. Therefore, we are not counting portions of establishments in the same manner as we are counting portions of sales or output in the Wholesale or Retail Trade sectors, nor are we counting any establishments that might not be reported under the Covered Employment and Wages Data.

The economic contribution consists of the direct effects, which represent the Georgia Turfgrass and Related industry, the indirect effects which represent the supply chain to the industry, and the induced effects which result from the economic activity of households⁸. Table 3 shows these contributions further broken down by employment, earnings, value added, and output (also referred to as revenue or sales).

In terms of employment, the industry directly contributes nearly 56,000 full-and part-time jobs, while the supply chain accounts for over 9,000. The induced effects resulting from economic activity of households contributes well over 21,000 jobs for a total of nearly 87,000. For earnings or labor income, the industry directly contributes over \$2.0 billion, with the supply chain accounting for another \$440 million. Including the induced effects of \$863 million, the total earnings contribution is \$3.4 billion.

For the value added contribution, the direct contribution is \$2.2 billion, with the supply chain accounting for another \$767 million. Including the induced effects of \$1.6 billion, the total value added contribution is \$4.6 billion. The industry direct output contribution is \$4.0 billion, supply chain of \$1.2 billion, induced effects of \$2.5 billion for a total of \$7.8 billion.

Contribution	Employment	Earnings	Value Added	Output
Direct Effect	55,871.6	\$2,072,727,049	\$2,210,207,168	\$4,033,135,132
Indirect Effect	9,337.2	\$439,999,310	\$766,768,260	\$1,205,479,638
Induced Effect	21,663.7	\$863,456,953	\$1,591,031,874	\$2,535,953,294
Total Effect	86,872.5	\$3,376,183,312	\$4,568,007,302	\$7,774,568,064

Table 3. Overview of Economic Contribution of Turfgrass and Related Industry in Georgia, 2010

Table 4 highlights how the Turfgrass and Related industry affects the major sectors of the Georgia economy. The largest jobs contribution comes from the service sector with 38,457 direct jobs and 61,284 full- and part-time jobs. This is followed by the trade sector with 10,395 direct jobs and 15,639 total after considering the supply chain. Next is the agriculture sector with 5,866 direct jobs and 6,324 total employment. The largest overall contribution in terms of output is in the service sector of \$5.0 billion, followed by the Trade sector at \$1.2 billion. It is apparent that the total contribution of the Georgia Turfgrass and Related industry spans across the major sectors; in fact, 93% of the sectors in the model were affected.

⁸ In some places in this report, particularly the Executive Summary, the indirect and induced effects will be combined and referred to as indirect effects.

	Employment		Earnings		Value Added		Output		
Description	Direct	Total	Direct	Total	Direct	Total	Direct	Total	
	(‡	#)			(Million \$)				
Total	55,872	86,873	\$2,073	\$3,376	\$2,210	\$4,568	\$4,033	\$7,775	
Agriculture	5,866	6,324	\$756	\$771	\$380	\$395	\$586	\$611	
Mining	0	7	\$0	\$0	\$0	\$1	\$0	\$1	
Construction	0	297	\$0	\$13	\$0	\$16	\$0	\$32	
Manufacturing	1,154	1,668	\$36	\$66	\$70	\$126	\$408	\$604	
TIPU*	0	1,222	\$0	\$70	\$0	\$138	\$0	\$206	
Trade	10,394	15,639	\$374	\$569	\$577	\$881	\$813	\$1,243	
Service	38,457	61,284	\$906	\$1,857	\$1,183	\$2,987	\$2,226	\$5,004	
Government	0	431	\$0	\$29	\$0	\$25	\$0	\$74	

Table 4. Georgia Turfgrass and Related Industry Employment Contribution by Major Sector, 2010

*Transportation, Information, and Public Utilities

Table 5 shows the top industries (ranked by employment) affected by the Turfgrass and Related Industry sectors – both directly and indirectly - including services to buildings and dwellings (38,242 jobs), greenhouse, nursery, floriculture production (5,866 jobs), building material and garden supply stores (5,599 jobs), food services and drinking places (2,818), and miscellaneous retail stores (2,415 jobs). Tables 6 and 7 describe the potential impact in terms of state, local, and federal taxes. State and local taxes combine to total over \$388 million, while federal taxes total over \$649 million, including household, business, and corporate taxes.

Table 5. Top Ten Industries Affected, by Employment 2010

Sector Description	Employment	Earnings	Value Added	Output
	(#)	(Million \$)		
Services to buildings and dwellings	38,242	\$872	\$1,151	\$2,178
Greenhouse, nursery, and floriculture production	5,866	\$756	\$380	\$586
Retail Stores-Building material & garden supply	5,599	\$212	\$308	\$446
Food services and drinking places	2,818	\$53	\$82	\$151
Retail Stores - Miscellaneous	2,415	\$49	\$75	\$115
Real estate establishments	2,001	\$33	\$242	\$272
Wholesale trade businesses	1,970	\$152	\$271	\$348
Retail Stores - General merchandise	1,940	\$51	\$79	\$104
Employment services	1,677	\$44	\$47	\$57
Retail Stores - Food and beverage	1,199	\$32	\$46	\$62

Description	Employee Compensation	Indirect Business Tax	Households	Corporations
Dividends				\$25,249
Social Ins Tax- Employee Contribution	\$246,429			
Social Ins Tax- Employer Contribution	\$570,953			
Indirect Bus Tax: Sales Tax		\$81,745,320		
Indirect Bus Tax: Property Tax		\$203,545,440		
Indirect Bus Tax: Motor Vehicle License		\$0		
Indirect Bus Tax: Severance Tax		\$0		
Indirect Bus Tax: Other Taxes		\$8,047,646		
Indirect Bus Tax: S/L NonTaxes		\$3,685,505		
Personal Tax: Income Tax			\$67,470,472	
Personal Tax: NonTaxes (Fines- Fees)			\$21,413,684	
Personal Tax: Motor Vehicle License			\$0	
Personal Tax: Property Taxes			\$1,747,884	
Personal Tax: Other Tax (Fish/Hunt)			\$0	
Total State and Local Tax	\$817,382	\$297,023,911	\$90,632,040	\$25,249

Table 7. Federal Tax Impact, Georgia 2010

Description	Employee Compensation	Proprietor Income	Indirect Business Tax	Households	Corporations
Social Ins Tax- Employee Contribution	\$134,341,312	\$42,724,052			
Social Ins Tax- Employer Contribution	\$132,433,232				
Indirect Bus Tax: Excise Taxes			\$40,803,928		
Indirect Bus Tax: Custom Duty			\$16,008,125		
Indirect Bus Tax: Fed NonTaxes			\$27,258,586		
Corporate Profits Tax					\$57,359,796
Personal Tax: Income Tax				\$198,981,600	
Total Federal Tax	\$266,774,544	\$42,724,052	\$84,070,639	\$198,981,600	\$57,359,796

About the IMPLAN Model

MIG, Inc. (formerly Minnesota IMPLAN Group, Inc.) is the sole-source provider of the IMPLAN® (IMpact analysis for PLANning) economic impact modeling system. IMPLAN is used to create complete, extremely detailed social accounting matrices and multiplier models of local economies. MIG, Inc. provides software tools, region-specific data, and outstanding technical support to enable users to make in-depth examinations of state, multi-county, county, sub-county, and metropolitan regional economies. MIG, Inc. has been developing complex localized databases, conducting IMPLAN training workshops and distributing IMPLAN software to public and private organizations since 1993.

MIG, Inc. was founded in 1993 by Scott Lindall and Doug Olson as an outgrowth of their work at the University of Minnesota which began in 1984. This developmental work closely involved the U.S. Forest Service's Land Management Planning Unit in Fort Collins, and Dr. Wilbur Maki at the University of Minnesota.

In 1993, Lindall and Olson entered into a technology transfer agreement with the University of Minnesota that allowed them to form the company. At first, MIG, Inc. focused on database development and provided data that could be used in the Forest Service version of the software. In 1995 however, MIG, Inc. took on the task of writing a new version of the IMPLAN software. This new version extended past the previous Forest Service version by incorporating an entirely new modeling system that included the creation of Social Accounting Matrices (SAMs) – an extension of input-output accounts, and the resulting SAM multipliers. Version 2 became available in May of 1999.

The Version 3.0 system was released in November of 2009. It updated and improved on the functionality of the Implan Version 2.0 software, including better utilities for customizing IMPLAN databases to match individual industries within a study and the addition of Multi-regional Analysis capabilities.

References

Hodges, A. W. (2011). Email Communication to S. Kane, October 14, 2011. Athens, Georgia.

Hodges, A. W., C. R. Hall, et al. (2011) "Economic Contributions of the Green Industry in the United States, 2007." <u>Southern Cooperative Series Bulletin</u> **#413**.

- Kane, S. P. and A. Luke-Morgan (2012). Ag Snapshots: A brief focus on Georgia's agricultural industry. CAED. Athens, Georgia, University of Georgia College of Agricultural & Environmental Sciences, Center for Agribusiness & Economic Development.
- MIG (2010). IMPLAN System (data and software). 502 2nd Street, Suite 301, Hudson, WI 54016 www.implan.com, MIG, Inc.
- Wolfe, K. and A. Luke-Morgan (2011). 2010 Georgia Farm Gate Value Report. CAED. Athens, Georgia, University of Georgia College of Agricultural & Environmental Sciences, Center for Agribusiness & Economic Development.

Appendix I: NAICS Definitions

Greenhouse and nursery production (1114): This includes those industries that grow crops of any kind under cover and/or those that grow nursery stock and flowers. Usually greenhouses, cold frames, cloth houses, and lath houses are considered "under cover." These crops have annual or perennial life cycles. Includes establishments primarily engaged in (1) growing nursery and floriculture products (e.g., nursery stock, shrubbery, cut flowers, flower seeds, foliage plants) under cover or in open fields and/or (2) growing short rotation woody trees with a growing and harvesting cycle of 10 years or less for pulp or tree stock (e.g., cut Christmas trees, cottonwoods). Source: http://www.census.gov/cgi-line.tuttof

 $\underline{bin/sssd/naics/naicsrch?code=1114\& search=2007\%20 NAICS\%20 Search}$

Lawn and garden equipment manufacturing (333112): This includes industries that manufacture power lawnmowers, lawn and garden tractors, tillers, shredders, yard vacuums, and leaf blowers. Source: <u>http://www.census.gov/cgi-bin/sssd/naics/naicsrch?code=333112&search=2007%20NAICS%20Search</u>

Landscaping services (56173): This includes establishments that provide landscape care and maintenance services such as planting trees, shrubs, plants, lawns, and gardens. These services are also engaged in design and construction of walkways, decks, fences, ponds, retaining walls and other similar structures. Source: <u>http://www.census.gov/cgi-bin/sssd/naics/naicsrch?code=561730&search=2007%20NAICS%20Search</u>

Landscape architectural services (54132): This includes establishments that are involved in the planning and designing for projects such as parks, recreational areas, airports, highways, hospitals, schools, land subdivisions, and commercial, industrial, and residential areas. They are involved in these projects by using knowledge of the land and landscape and applying it to the project. Source: <u>http://www.census.gov/cgi-</u>

bin/sssd/naics/naicsrch?code=541320&search=2007%20NAICS%20Search

Building material and garden supply stores (444): These stores sell new building material and garden equipment and supplies from a fixed location. The materials may be kept indoors or under a cover outdoors. The staff is knowledgeable about their products and the construction and maintenance of the home and lawn. Source: <u>http://www.census.gov/cgi-bin/sssd/naics/naicsrch?code=444&search=2007%20NAICS%20Search</u>

Merchant wholesalers, durable goods (423): Industries in this sector sell capital or durable goods to other businesses. Merchant wholesalers buy and sell goods on their own account. Durable goods are those goods with a normal life of three or more years. They include products such as motor vehicles, furniture, construction materials, machinery and equipment, metals and minerals, sporting goods, toys and hobby goods, recyclable materials, and parts. Source: <u>http://www.census.gov/cgibin/sssd/naics/naics/naicsrch?code=423&search=2007%20NAICS%20Search</u>

Miscellaneous store retailers (453): These retailers sell retail merchandise from a fixed location. Many of these stores have specific characteristics such as pet supplies or florist. Source: http://www.census.gov/cgi-bin/sssd/naics/naicsrch?code=453&search=2007%20NAICS%20Search **General merchandise stores**: These retailers sell new retail merchandise from a fixed location. These establishments have a wide variety of goods and a large staff that are trained specifically for a type of goods. Source: <u>http://www.census.gov/cgi-bin/sssd/naics/naicsrch?code=452&search=2007%20NAICS%20Search</u>

Merchant wholesales, nondurable goods: These industries sell nondurable goods to other businesses. Non durable goods usually have a life span of less than three years and include products such as paper and paper products, chemicals and chemical products, drugs, textiles and textile products, apparel, footwear, groceries, farm products, petroleum and petroleum products, alcoholic beverages, books, magazines, newspapers, flowers and nursery stock, and tobacco. Source: <u>http://www.census.gov/cgi-</u>bin/sssd/naics/naicsrch?code=424&search=2007% 20NAICS% 20Search

Food and beverage stores: These industries retail food and beverages from a fixed location. They have specialized equipment for displaying food and beverages such as refrigerated display cases, freezers and refrigerators. Their staff is specialized in the proper storage and sanitary conditions needed for this industry. Source: <u>http://www.census.gov/cgi-bin/sssd/naics/naicsrch?code=445&search=2007%20NAICS%20Search</u>

Nonstore retailers: These industries retail merchandise using methods such as broadcasting of infomercials, broadcasting and publishing of direct-response advertising, publishing of paper and electronic catalogs, door-to-door solicitation, in-home demonstrations, selling from portable stalls, and distribution through vending machines. These industries can include the direct sale of products such as heating oil dealers and newspaper delivery providers. Source: <u>http://www.census.gov/cgi-bin/sssd/naics/naicsrch?code=454&search=2007%20NAICS%20Search</u>

Furniture and home furnishings stores: These industries retail new furniture and furnishings from a fixed location. These products are normally displayed in a showroom. Interior decorating may also be available from these industries. Source: <u>http://www.census.gov/cgi-bin/sssd/naics/naicsrch?code=442&search=2007%20NAICS%20Search</u>

The Center for Agribusiness & Economic Development



The Center for Agribusiness and Economic Development is a unit of the College of Agricultural and Environmental Sciences of the University of Georgia, combining the missions of research and extension. The Center has among its objectives:

To provide feasibility and other short term studies for current or potential Georgia agribusiness firms and/or emerging food and fiber industries.

To provide agricultural, natural resource, and demographic data for private and public decision makers.

To find out more, visit our Web site at: http://www.caed.uga.edu

Or contact:

Dr. Kent Wolfe, Director Center for Agribusiness and Economic Development Lumpkin House The University of Georgia Athens, Georgia 30602-7509 Phone (706)542-1861

The University of Georgia and Fort Valley State University, and the U.S. Department of Agriculture and counties of the state cooperating. The Cooperative Extension Service offers educational programs, assistance and materials to all people without regard to race, color, national origin, age, sex or disability.

An equal opportunity/affirmative action organization committed to a diverse work force.

Report Number: CR-12-05

May 2012

Issued in furtherance of Cooperation Extension Acts of May 8 and June 30, 1914, the University of Georgia College of Agricultural and Environmental Sciences, and the U.S. Department of Agriculture cooperating.

J. Scott Angle, Dean and Director