



The University of Georgia

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Economic Importance of Food and Fiber in the Georgia Economy

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Executive Summary

Economic activity that begins with production of food and fiber products forms an integrated system that impacts the state economy. The system includes production inputs, direct processing, further processing, distribution, and retail consumption. The food and fiber system is composed of industries involved in agricultural and forestry production, including support services; food and fiber processing and manufacturing; production inputs; food retail and wholesale trade; and food services. Employment in the total food and fiber sector of 708,174 employees is more than any other sector in the economy. Sales of \$92.146 billion rank the total food and fiber sector first among all Georgia economic sectors. Food and drink manufacturing has more employment and output value than any other Georgia manufacturing sector. Food and fiber accounts for 14% of employment, 13% of output, and 9% of value added in the Georgia economy.

Economic Importance of Food and Fiber in the Georgia Economy

Food and fiber products are necessities for Georgia consumers. Economic activity that begins with production of food and fiber products forms an integrated system that impacts the state economy. The system includes production inputs, direct processing, further processing, distribution, and retail consumption. This report has two sections: 1) definition of components included in the food and fiber system, and 2) quantification of contributions to the state economy in terms of employment, output, and value added.

Economic Sectors of the Georgia Food and Fiber System

Sector data applied in this analysis are from the Minnesota IMPLAN Group, Inc. (MIG 2004) for 2006. Previous studies serve as a guide in defining sectors included in the Georgia food and fiber system. Farm and farm-related employment are defined by USDA, ERS as industries having 50% or more of their work force employed in providing goods and services necessary to satisfy the final demand for agricultural products. Indirect agribusinesses have between 32% and 50% of employment providing goods and services related to agricultural products. Industries are aggregated into groups related to farm production; agricultural services, forestry, and fishing; agricultural input industries; agricultural processing and marketing industries; wholesale and retail trade of agricultural products; and indirect agribusiness (USDA, ERS 2005). Previous analysis of the Georgia food and fiber economy by Kriesel and Jones (1998) is patterned from a study by Sporleder, Hushak, and Pai (1990). Kriesel and Jones determined that the food and fiber system composed 16% of total employment in the 1995 Georgia economy. Food and fiber made up 16% of output in terms of sales value and 12% of value added.

This report follows elements of previous studies (USDA, ERS 2005, Kriesel and Jones 1998) while proposing a revised listing of sectors to include in the food and fiber system. Categories of the food and fiber system are: 1) agricultural and forestry production, including support services, 2) food and fiber processing and manufacturing, 3) production inputs, 4) food retail and wholesale trade, and 5) food services. Food and fiber employment, output (sales), and value added are derived from the IMPLAN sectoring scheme. Food commodities are regarded as food throughout the system, from production to final consumption. In contrast, fiber commodities are considered as fiber only up to a point in processing and manufacturing. Beyond this point, fiber commodities are viewed as a finished product beyond the stage of a fiber commodity. For example, from the broad sector of textiles, only fabrics and leather are included as fiber commodities. Included in fiber manufacturing are yarn and thread mills, as well as fabric mills. Manufacturing processes beyond fabric manufacturing are excluded. Leather tanning and product manufacturing are included, but footwear manufacturing is excluded. Wood products are excluded as fiber for the manufacturing sectors of manufactured or mobile homes, prefabricated wood buildings, and furniture. Paper products exclude paper office supplies, envelopes, stationery, and other converted paper manufacturing. Wholesale and retail trade, as well as warehousing and storage of fiber products, is not included as part of the food and fiber system. A listing of IMPLAN sectors included in the food and fiber system is presented in Table 1. Appendix 1 is the complete IMPLAN sectoring scheme. The IMPLAN sector 407 for gasoline stations includes gasoline stations with convenience stores (US Census Bureau, NAICS 2002).

Table 1. IMPLAN Sectors Included in the Food and Fiber System

IMPLAN Code	Sector	IMPLAN Code	Sector
1	Oilseed Farming	78	Roasted Nuts & Peanut Butter Manuf.
2	Grain Farming	79	Other Snack Food Manuf.
3	Vegetable & Melon Farming	80	Coffee & Tea Manuf.
4	Tree Nut Farming	81	Flavoring Syrup & Concentrate Manuf.
5	Fruit Farming	82	Mayonnaise, Dressing, & Sauce Manuf.
6	Greenhouse & Nursery Production	83	Spice & Extract Manuf.
7	Tobacco Farming	84	All Other Food Manuf.
8	Cotton Farming	85	Soft Drink & Ice Manuf.
9	Sugarcane & Sugar Beet Farming	86	Breweries
10	All Other Crop Farming	87	Wineries
11	Cattle Ranching & Farming	88	Distilleries
12	Poultry & Egg Production	89	Tobacco Stemming & Redrying
13	Animal Production, Except Poultry & Egg	90	Cigarette Manuf.
14	Logging	91	Other Tobacco Product Manuf.
15	Forest Nurseries, Forest Products, & Timber	92	Fiber, Yarn, & Thread Mills
16	Fishing	93	Broadwoven Fabric Mills
17	Hunting & Trapping	94	Narrow Fabric Mills & Schiffli Embroidery
18	Agricultural & Forestry Support Services	109	Leather & Hide Tanning
46	Dog & Cat Food Manuf.	111	Other Leather Product Manuf.
47	Other Animal Food Manuf.	112	Sawmills
48	Flour Milling	113	Wood Preservation
49	Rice Milling	114	Reconstituted Wood Product Manuf.
50	Malt Manuf.	115	Veneer & Plywood Manuf.
51	Wet Corn Milling	116	Engin. Wood Member & Truss Manuf.
52	Soybean Processing	117	Wood Windows & Door Manuf.
53	Other Oilseed Processing	118	Cut Stock, Resawing, & Planing
54	Fats & Oils Refining & Blending	119	Other Millwork, Including Flooring
55	Breakfast Cereal Manuf.	120	Wood Container & Pallet Manuf.
56	Sugar Manuf.	123	Miscellaneous Wood Product Manuf.
57	Confectionery Manuf. from Cocoa Beans	124	Pulp Mills
58	Confectionery Manuf. from Purchased Chocolate	125	Paper & Paperboard Mills
59	Nonchocolate Confectionery Manuf.	126	Paperboard Container Manuf.
60	Frozen Food Manuf.	128	Surface-Coated Paperboard Manuf.
61	Fruit & Vegetable Manuf.	129	Coated & Laminated Paper & Packaging
62	Fluid Milk Manuf.	130	Coated & Uncoated Paper Bag Manuf.
63	Creamery Butter Manuf.	156	Nitrogenous Fertilizer Manuf.
64	Cheese Manuf.	157	Phosphatic Fertilizer Manuf.
65	Dry, Condensed, & Evaporated Dairy Products	158	Fertilizer-Mixing Only
66	Ice Cream & Frozen Desert Manuf.	159	Pesticide & Other Ag. Chemical Manuf.
67	Animal, Except Poultry Slaughtering	257	Farm Machinery & Equipment Manuf.
68	Meat Processed from Carcasses	258	Lawn & Garden Equipment Manuf.
69	Rendering & Meat Byproduct Processing	267	Food product machinery Manuf.
70	Poultry Processing	390	Wholesale Trade
71	Seafood Product Preparation & Packaging	400	Warehousing and storage
72	Frozen Cakes & Other Pastries Manuf.	405	Food & Beverage Stores
73	Bread & Bakery Product, Except Frozen, Manuf.	407	Gasoline Stations
74	Cookie & Cracker Manuf.	410	General Merchandise Stores
75	Mixes & Dough Made from Purchased Flour	458	Landscape Services
76	Dry Pasta Manuf.	481	Food Service & Drinking Places
77	Tortilla Manuf.		

IMPLAN sectors 390, 400, 405, 407, and 410 are adjusted to derive the food portion by applying data from the 2002 Economic Census (US Census Bureau 2005) and implicit price deflators from the US Dept. of Commerce, BEA (2008). IMPLAN sector 458 includes all services to buildings and dwellings, and landscape services are estimated as a percentage derived from information provided by the Georgia Department of Labor.

Table 2 presents employment, output, and value added of the Georgia food and fiber system. Food warehousing and storage is aggregated with retail and wholesale trade. Value added is defined as final sales less the cost of materials purchased to produce output (Shaffer, Deller, and Marcouiller 2004). Value added is also referred to as gross state product. Employment, output, and value added for industries outside of the food and fiber system are included in Table 2. Employment in the total food and fiber sector of 708,174 employees is more than any other sector in the economy. Sales of \$92.146 billion rank the total food and fiber sector first among all Georgia economic sectors. Total value added of \$34.287 billion is the third greatest sector after 1) wholesale and retail trade for other than food and 2) the aggregate sector of financial, real estate, and rental services. Food and fiber accounts for 14% of employment, 13% of output, and 9% of value added in the Georgia economy. Food and drink manufacturing has more employment and output than any other Georgia manufacturing sector. Food and drink manufacturing employment of 72,582 jobs is 27% greater than textile manufacturing with 57,029 jobs. Output value of \$30.569 billion for food and drink manufacturing is 47% greater than the \$20.727 billion for textile manufacturing. Within the food and fiber system, the food services component has the most employment with 314,131 jobs. Food and drink manufacturing has the greatest output and value added.

Summary

The food and fiber system is composed of industries involved in agricultural and forestry production, including support services; food and fiber processing and manufacturing; production inputs; food retail and wholesale trade; and food services. Employment in the total food and fiber sector of 708,174 employees is more than any other sector in the economy. Sales of \$92.146 billion rank the total food and fiber sector first among all Georgia economic sectors. Food and drink manufacturing has more employment and output value than any other Georgia manufacturing sector. Food and fiber accounts for 14% of employment, 13% of output, and 9% of value added in the Georgia economy.

Table 2. Georgia Employment, Output, and Value Added by Industrial Sector, 2006

Sector	Employment	Output	Value Added
			<i>- \$ Million -</i>
Agriculture & Forestry Products	126,968	11,855	4,727
Food & Drink Manufacturing	72,582	30,569	8,385
Fabric & Leather Manufacturing	25,731	5,728	1,249
Wood & Paper Manufacturing	42,022	13,619	4,323
Production Inputs	5,923	3,191	676
Food Retail & Wholesale Trade	120,818	11,338	7,368
Food Services	314,131	15,845	7,558
Total Food & Fiber	708,174	92,146	34,287
Food & Fiber Percent of Economy	14	13	9
Mining	7,171	1,529	876
Utilities	21,258	14,012	10,714
Construction	350,671	40,992	17,601
Textiles Manufacturing	57,029	20,727	5,378
Printing	24,940	3,946	2,104
Petroleum & Chemicals Manufacturing	21,179	19,708	4,270
Nonmetals Manufacturing	47,015	11,833	4,362
Metals Manufacturing	36,703	10,818	3,299
Machinery & Equipment Manufacturing	20,333	6,620	1,574
Electronics Manufacturing	29,382	11,977	3,518
Automotive Manufacturing	20,472	11,506	1,970
Aircraft Manufacturing	18,563	8,859	1,781
Other Transportation Manufacturing	5,579	2,057	466
Miscellaneous Manufacturing	30,790	5,642	2,816
Wholesale & Retail Trade	669,629	71,039	47,398
Transportation & Warehousing	229,132	27,344	14,107
Information Services	129,874	54,771	27,950
Financial, Real Estate, & Rental Services	431,174	84,395	52,697
Professional Services	328,616	42,297	24,777
Health & Social Services	510,930	41,538	25,364
Other Support Services	457,031	35,326	21,286
Other Personal Services	342,714	17,604	10,063
State Government	589,201	31,105	28,385
Federal Government	156,657	17,477	17,423
Non-NAICS	0	27,497	24,505
Total Non-Food & Fiber	4,536,042	620,621	354,683
Total Georgia Economy	5,244,215	712,767	388,970

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Appendix 1. IMPLAN Sectoring Scheme

- 1 Oilseed farming
- 2 Grain farming
- 3 Vegetable and melon farming
- 4 Tree nut farming
- 5 Fruit farming
- 6 Greenhouse and nursery production
- 7 Tobacco farming
- 8 Cotton farming
- 9 Sugarcane and sugar beet farming
- 10 All other crop farming
- 11 Cattle ranching and farming
- 12 Poultry and egg production
- 13 Animal production- except cattle and poultry
- 14 Logging
- 15 Forest nurseries- forest products- and timber
- 16 Fishing
- 17 Hunting and trapping
- 18 Agriculture and forestry support activities
- 19 Oil and gas extraction
- 20 Coal mining
- 21 Iron ore mining
- 22 Copper- nickel- lead- and zinc mining
- 23 Gold- silver- and other metal ore mining
- 24 Stone mining and quarrying
- 25 Sand- gravel- clay- and refractory mining
- 26 Other nonmetallic mineral mining
- 27 Drilling oil and gas wells
- 28 Support activities for oil and gas operations
- 29 Support activities for other mining
- 30 Power generation and supply
- 31 Natural gas distribution
- 32 Water- sewage and other systems
- 33 New residential 1-unit structures- all
- 34 New multifamily housing structures- all
- 35 New residential additions and alterations-all
- 36 New farm housing units
- 37 Manufacturing and industrial buildings
- 38 Commercial and institutional buildings
- 39 Highway- street- bridge- and tunnel construct
- 40 Water- sewer- and pipeline construction
- 41 Other new construction
- 42 Maintenance and repair of farm and nonfarm residential structures
- 43 Maintenance and repair of nonresidential buildings
- 44 Maintenance and repair of highways- streets-
- 45 Other maintenance and repair construction
- 46 Dog and cat food manufacturing
- 47 Other animal food manufacturing
- 48 Flour milling
- 49 Rice milling
- 50 Malt manufacturing

Appendix 1. IMPLAN Sectoring Scheme - Continued

- 51 Wet corn milling
- 52 Soybean processing
- 53 Other oilseed processing
- 54 Fats and oils refining and blending
- 55 Breakfast cereal manufacturing
- 56 Sugar manufacturing
- 57 Confectionery manufacturing from cacao beans
- 58 Confectionery manufacturing from purchased chocolate
- 59 Nonchocolate confectionery manufacturing
- 60 Frozen food manufacturing
- 61 Fruit and vegetable canning and drying
- 62 Fluid milk manufacturing
- 63 Creamery butter manufacturing
- 64 Cheese manufacturing
- 65 Dry- condensed- and evaporated dairy products
- 66 Ice cream and frozen dessert manufacturing
- 67 Animal- except poultry- slaughtering
- 68 Meat processed from carcasses
- 69 Rendering and meat byproduct processing
- 70 Poultry processing
- 71 Seafood product preparation and packaging
- 72 Frozen cakes and other pastries manufacturing
- 73 Bread and bakery product- except frozen- manufacturing
- 74 Cookie and cracker manufacturing
- 75 Mixes and dough made from purchased flour
- 76 Dry pasta manufacturing
- 77 Tortilla manufacturing
- 78 Roasted nuts and peanut butter manufacturing
- 79 Other snack food manufacturing
- 80 Coffee and tea manufacturing
- 81 Flavoring syrup and concentrate manufacturing
- 82 Mayonnaise- dressing- and sauce manufacturing
- 83 Spice and extract manufacturing
- 84 All other food manufacturing
- 85 Soft drink and ice manufacturing
- 86 Breweries
- 87 Wineries
- 88 Distilleries
- 89 Tobacco stemming and redrying
- 90 Cigarette manufacturing
- 91 Other tobacco product manufacturing
- 92 Fiber- yarn- and thread mills
- 93 Broadwoven fabric mills
- 94 Narrow fabric mills and schiffli embroidery
- 95 Nonwoven fabric mills
- 96 Knit fabric mills
- 97 Textile and fabric finishing mills
- 98 Fabric coating mills
- 99 Carpet and rug mills
- 100 Curtain and linen mills

Appendix 1. IMPLAN Sectoring Scheme - Continued

- 101 Textile bag and canvas mills
- 102 Tire cord and tire fabric mills
- 103 Other miscellaneous textile product mills
- 104 Sheer hosiery mills
- 105 Other hosiery and sock mills
- 106 Other apparel knitting mills
- 107 Cut and sew apparel manufacturing
- 108 Accessories and other apparel manufacturing
- 109 Leather and hide tanning and finishing
- 110 Footwear manufacturing
- 111 Other leather product manufacturing
- 112 Sawmills
- 113 Wood preservation
- 114 Reconstituted wood product manufacturing
- 115 Veneer and plywood manufacturing
- 116 Engineered wood member and truss manufacturing
- 117 Wood windows and door manufacturing
- 118 Cut stock- resawing lumber- and planing
- 119 Other millwork- including flooring
- 120 Wood container and pallet manufacturing
- 121 Manufactured home- mobile home- manufacturing
- 122 Prefabricated wood building manufacturing
- 123 Miscellaneous wood product manufacturing
- 124 Pulp mills
- 125 Paper and paperboard mills
- 126 Paperboard container manufacturing
- 127 Flexible packaging foil manufacturing
- 128 Surface-coated paperboard manufacturing
- 129 Coated and laminated paper and packaging mate
- 130 Coated and uncoated paper bag manufacturing
- 131 Die-cut paper office supplies manufacturing
- 132 Envelope manufacturing
- 133 Stationery and related product manufacturing
- 134 Sanitary paper product manufacturing
- 135 All other converted paper product manufacturing
- 136 Manifold business forms printing
- 137 Books printing
- 138 Blankbook and looseleaf binder manufacturing
- 139 Commercial printing
- 140 Tradebinding and related work
- 141 Prepress services
- 142 Petroleum refineries
- 143 Asphalt paving mixture and block manufacturing
- 144 Asphalt shingle and coating materials manufacturing
- 145 Petroleum lubricating oil and grease manufacturing
- 146 All other petroleum and coal products manufacturing
- 147 Petrochemical manufacturing
- 148 Industrial gas manufacturing
- 149 Synthetic dye and pigment manufacturing
- 150 Other basic inorganic chemical manufacturing

Appendix 1. IMPLAN Sectoring Scheme - Continued

- 151 Other basic organic chemical manufacturing
- 152 Plastics material and resin manufacturing
- 153 Synthetic rubber manufacturing
- 154 Cellulosic organic fiber manufacturing
- 155 Noncellulosic organic fiber manufacturing
- 156 Nitrogenous fertilizer manufacturing
- 157 Phosphatic fertilizer manufacturing
- 158 Fertilizer- mixing only- manufacturing
- 159 Pesticide and other agricultural chemical man
- 160 Pharmaceutical and medicine manufacturing
- 161 Paint and coating manufacturing
- 162 Adhesive manufacturing
- 163 Soap and other detergent manufacturing
- 164 Polish and other sanitation good manufacturing
- 165 Surface active agent manufacturing
- 166 Toilet preparation manufacturing
- 167 Printing ink manufacturing
- 168 Explosives manufacturing
- 169 Custom compounding of purchased resins
- 170 Photographic film and chemical manufacturing
- 171 Other miscellaneous chemical product manufacturing
- 172 Plastics packaging materials- film and sheet
- 173 Plastics pipe- fittings- and profile shapes
- 174 Laminated plastics plate- sheet- and shapes
- 175 Plastics bottle manufacturing
- 176 Resilient floor covering manufacturing
- 177 Plastics plumbing fixtures and all other plastics
- 178 Foam product manufacturing
- 179 Tire manufacturing
- 180 Rubber and plastics hose and belting manufacturing
- 181 Other rubber product manufacturing
- 182 Vitreous china plumbing fixture manufacturing
- 183 Vitreous china and earthenware articles manufacturing
- 184 Porcelain electrical supply manufacturing
- 185 Brick and structural clay tile manufacturing
- 186 Ceramic wall and floor tile manufacturing
- 187 Nonclay refractory manufacturing
- 188 Clay refractory and other structural clay pro
- 189 Glass container manufacturing
- 190 Glass and glass products- except glass containers
- 191 Cement manufacturing
- 192 Ready-mix concrete manufacturing
- 193 Concrete block and brick manufacturing
- 194 Concrete pipe manufacturing
- 195 Other concrete product manufacturing
- 196 Lime manufacturing
- 197 Gypsum product manufacturing
- 198 Abrasive product manufacturing
- 199 Cut stone and stone product manufacturing
- 200 Ground or treated minerals and earths manufacturing

Appendix 1. IMPLAN Sectoring Scheme - Continued

- 201 Mineral wool manufacturing
- 202 Miscellaneous nonmetallic mineral products
- 203 Iron and steel mills
- 204 Ferroalloy and related product manufacturing
- 205 Iron- steel pipe and tube from purchased steel
- 206 Rolled steel shape manufacturing
- 207 Steel wire drawing
- 208 Alumina refining
- 209 Primary aluminum production
- 210 Secondary smelting and alloying of aluminum
- 211 Aluminum sheet- plate- and foil manufacturing
- 212 Aluminum extruded product manufacturing
- 213 Other aluminum rolling and drawing
- 214 Primary smelting and refining of copper
- 215 Primary nonferrous metal- except copper and aluminum
- 216 Copper rolling- drawing- and extruding
- 217 Copper wire- except mechanical- drawing
- 218 Secondary processing of copper
- 219 Nonferrous metal- except copper and aluminum
- 220 Secondary processing of other nonferrous
- 221 Ferrous metal foundries
- 222 Aluminum foundries
- 223 Nonferrous foundries- except aluminum
- 224 Iron and steel forging
- 225 Nonferrous forging
- 226 Custom roll forming
- 227 All other forging and stamping
- 228 Cutlery and flatware- except precious- manufacturing
- 229 Hand and edge tool manufacturing
- 230 Saw blade and handsaw manufacturing
- 231 Kitchen utensil- pot- and pan manufacturing
- 232 Prefabricated metal buildings and components
- 233 Fabricated structural metal manufacturing
- 234 Plate work manufacturing
- 235 Metal window and door manufacturing
- 236 Sheet metal work manufacturing
- 237 Ornamental and architectural metal work manufacturing
- 238 Power boiler and heat exchanger manufacturing
- 239 Metal tank- heavy gauge- manufacturing
- 240 Metal can- box- and other container manufacturing
- 241 Hardware manufacturing
- 242 Spring and wire product manufacturing
- 243 Machine shops
- 244 Turned product and screw- nut- and bolt manufacturing
- 245 Metal heat treating
- 246 Metal coating and nonprecious engraving
- 247 Electroplating- anodizing- and coloring metal
- 248 Metal valve manufacturing
- 249 Ball and roller bearing manufacturing
- 250 Small arms manufacturing

Appendix 1. IMPLAN Sectoring Scheme - Continued

- 251 Other ordnance and accessories manufacturing
- 252 Fabricated pipe and pipe fitting manufacturing
- 253 Industrial pattern manufacturing
- 254 Enameled iron and metal sanitary ware manufacturing
- 255 Miscellaneous fabricated metal product manufacturing
- 256 Ammunition manufacturing
- 257 Farm machinery and equipment manufacturing
- 258 Lawn and garden equipment manufacturing
- 259 Construction machinery manufacturing
- 260 Mining machinery and equipment manufacturing
- 261 Oil and gas field machinery and equipment
- 262 Sawmill and woodworking machinery
- 263 Plastics and rubber industry machinery
- 264 Paper industry machinery manufacturing
- 265 Textile machinery manufacturing
- 266 Printing machinery and equipment manufacturing
- 267 Food product machinery manufacturing
- 268 Semiconductor machinery manufacturing
- 269 All other industrial machinery manufacturing
- 270 Office machinery manufacturing
- 271 Optical instrument and lens manufacturing
- 272 Photographic and photocopying equipment manufacturing
- 273 Other commercial and service industry machine
- 274 Automatic vending- commercial laundry and dry
- 275 Air purification equipment manufacturing
- 276 Industrial and commercial fan and blower manufacturing
- 277 Heating equipment- except warm air furnaces
- 278 AC- refrigeration- and forced air heating
- 279 Industrial mold manufacturing
- 280 Metal cutting machine tool manufacturing
- 281 Metal forming machine tool manufacturing
- 282 Special tool- die- jig- and fixture manufacturing
- 283 Cutting tool and machine tool accessory manufacturing
- 284 Rolling mill and other metalworking machinery
- 285 Turbine and turbine generator set units manufacturing
- 286 Other engine equipment manufacturing
- 287 Speed changers and mechanical power transmission equipment
- 288 Pump and pumping equipment manufacturing
- 289 Air and gas compressor manufacturing
- 290 Measuring and dispensing pump manufacturing
- 291 Elevator and moving stairway manufacturing
- 292 Conveyor and conveying equipment manufacturing
- 293 Overhead cranes- hoists- and monorail systems
- 294 Industrial truck- trailer- and stacker manufacturing
- 295 Power-driven handtool manufacturing
- 296 Welding and soldering equipment manufacturing
- 297 Packaging machinery manufacturing
- 298 Industrial process furnace and oven manufacturing
- 299 Fluid power cylinder and actuator manufacturing
- 300 Fluid power pump and motor manufacturing

Appendix 1. IMPLAN Sectoring Scheme - Continued

- 301 Scales- balances- and miscellaneous general purpose machinery
- 302 Electronic computer manufacturing
- 303 Computer storage device manufacturing
- 304 Computer terminal manufacturing
- 305 Other computer peripheral equipment manufacturing
- 306 Telephone apparatus manufacturing
- 307 Broadcast and wireless communications equipment
- 308 Other communications equipment manufacturing
- 309 Audio and video equipment manufacturing
- 310 Electron tube manufacturing
- 311 Semiconductors and related device manufacturing
- 312 All other electronic component manufacturing
- 313 Electromedical apparatus manufacturing
- 314 Search- detection- and navigation instruments
- 315 Automatic environmental control manufacturing
- 316 Industrial process variable instruments
- 317 Totalizing fluid meters and counting devices
- 318 Electricity and signal testing instruments
- 319 Analytical laboratory instrument manufacturing
- 320 Irradiation apparatus manufacturing
- 321 Watch- clock- and other measuring and control device manufacturing
- 322 Software reproducing
- 323 Audio and video media reproduction
- 324 Magnetic and optical recording media manufacturing
- 325 Electric lamp bulb and part manufacturing
- 326 Lighting fixture manufacturing
- 327 Electric housewares and household fan manufacturing
- 328 Household vacuum cleaner manufacturing
- 329 Household cooking appliance manufacturing
- 330 Household refrigerator and home freezer manufacturing
- 331 Household laundry equipment manufacturing
- 332 Other major household appliance manufacturing
- 333 Electric power and specialty transformer manufacturing
- 334 Motor and generator manufacturing
- 335 Switchgear and switchboard apparatus manufacturing
- 336 Relay and industrial control manufacturing
- 337 Storage battery manufacturing
- 338 Primary battery manufacturing
- 339 Fiber optic cable manufacturing
- 340 Other communication and energy wire manufacturing
- 341 Wiring device manufacturing
- 342 Carbon and graphite product manufacturing
- 343 Miscellaneous electrical equipment manufacturing
- 344 Automobile and light truck manufacturing
- 345 Heavy duty truck manufacturing
- 346 Motor vehicle body manufacturing
- 347 Truck trailer manufacturing
- 348 Motor home manufacturing
- 349 Travel trailer and camper manufacturing
- 350 Motor vehicle parts manufacturing

Appendix 1. IMPLAN Sectoring Scheme - Continued

- 351 Aircraft manufacturing
- 352 Aircraft engine and engine parts manufacturing
- 353 Other aircraft parts and equipment
- 354 Guided missile and space vehicle manufacturing
- 355 Propulsion units and parts for space vehicles
- 356 Railroad rolling stock manufacturing
- 357 Ship building and repairing
- 358 Boat building
- 359 Motorcycle- bicycle- and parts manufacturing
- 360 Military armored vehicles and tank parts manufacturing
- 361 All other transportation equipment manufacturing
- 362 Wood kitchen cabinet and countertop manufacturing
- 363 Upholstered household furniture manufacturing
- 364 Nonupholstered wood household furniture manufacturing
- 365 Metal household furniture manufacturing
- 366 Institutional furniture manufacturing
- 367 Other household and institutional furniture
- 368 Wood office furniture manufacturing
- 369 Custom architectural woodwork and millwork
- 370 Office furniture- except wood- manufacturing
- 371 Showcases- partitions- shelving- and lockers
- 372 Mattress manufacturing
- 373 Blind and shade manufacturing
- 374 Laboratory apparatus and furniture manufacturing
- 375 Surgical and medical instrument manufacturing
- 376 Surgical appliance and supplies manufacturing
- 377 Dental equipment and supplies manufacturing
- 378 Ophthalmic goods manufacturing
- 379 Dental laboratories
- 380 Jewelry and silverware manufacturing
- 381 Sporting and athletic goods manufacturing
- 382 Doll- toy- and game manufacturing
- 383 Office supplies- except paper- manufacturing
- 384 Sign manufacturing
- 385 Gasket- packing- and sealing device manufacturing
- 386 Musical instrument manufacturing
- 387 Broom- brush- and mop manufacturing
- 388 Burial casket manufacturing
- 389 Buttons- pins- and all other miscellaneous manufacturing
- 390 Wholesale trade
- 391 Air transportation
- 392 Rail transportation
- 393 Water transportation
- 394 Truck transportation
- 395 Transit and ground passenger transportation
- 396 Pipeline transportation
- 397 Scenic and sightseeing transportation and support
- 398 Postal service
- 399 Couriers and messengers
- 400 Warehousing and storage

Appendix 1. IMPLAN Sectoring Scheme - Continued

- 401 Motor vehicle and parts dealers
- 402 Furniture and home furnishings stores
- 403 Electronics and appliance stores
- 404 Building material and garden supply stores
- 405 Food and beverage stores
- 406 Health and personal care stores
- 407 Gasoline stations
- 408 Clothing and clothing accessories stores
- 409 Sporting goods- hobby- book and music stores
- 410 General merchandise stores
- 411 Miscellaneous store retailers
- 412 Nonstore retailers
- 413 Newspaper publishers
- 414 Periodical publishers
- 415 Book publishers
- 416 Database- directory- and other publishers
- 417 Software publishers
- 418 Motion picture and video industries
- 419 Sound recording industries
- 420 Radio and television broadcasting
- 421 Cable networks and program distribution
- 422 Telecommunications
- 423 Information services
- 424 Data processing services
- 425 Nondepository credit intermediation and related
- 426 Securities- commodity contracts- investments
- 427 Insurance carriers
- 428 Insurance agencies- brokerages- and related
- 429 Funds- trusts- and other financial vehicles
- 430 Monetary authorities and depository credit intermediation
- 431 Real estate
- 432 Automotive equipment rental and leasing
- 433 Video tape and disc rental
- 434 Machinery and equipment rental and leasing
- 435 General and consumer goods rental except video
- 436 Lessors of nonfinancial intangible assets
- 437 Legal services
- 438 Accounting and bookkeeping services
- 439 Architectural and engineering services
- 440 Specialized design services
- 441 Custom computer programming services
- 442 Computer systems design services
- 443 Other computer related services- including facilities management
- 444 Management consulting services
- 445 Environmental and other technical consulting
- 446 Scientific research and development services
- 447 Advertising and related services
- 448 Photographic services
- 449 Veterinary services
- 450 All other miscellaneous professional and technical services

Appendix 1. IMPLAN Sectoring Scheme - Continued

- 451 Management of companies and enterprises
- 452 Office administrative services
- 453 Facilities support services
- 454 Employment services
- 455 Business support services
- 456 Travel arrangement and reservation services
- 457 Investigation and security services
- 458 Services to buildings and dwellings
- 459 Other support services
- 460 Waste management and remediation services
- 461 Elementary and secondary schools
- 462 Colleges- universities- and junior colleges
- 463 Other educational services
- 464 Home health care services
- 465 Offices of physicians- dentists- and other healthcare
- 466 Other ambulatory health care services
- 467 Hospitals
- 468 Nursing and residential care facilities
- 469 Child day care services
- 470 Social assistance- except child day care services
- 471 Performing arts companies
- 472 Spectator sports
- 473 Independent artists- writers- and performers
- 474 Promoters of performing arts and sports and a
- 475 Museums- historical sites- zoos- and parks
- 476 Fitness and recreational sports centers
- 477 Bowling centers
- 478 Other amusement- gambling- and recreation industries
- 479 Hotels and motels- including casino hotels
- 480 Other accommodations
- 481 Food services and drinking places
- 482 Car washes
- 483 Automotive repair and maintenance- except car
- 484 Electronic equipment repair and maintenance
- 485 Commercial machinery repair and maintenance
- 486 Household goods repair and maintenance
- 487 Personal care services
- 488 Death care services
- 489 Drycleaning and laundry services
- 490 Other personal services
- 491 Religious organizations
- 492 Grantmaking and giving and social advocacy or
- 493 Civic- social- professional and similar organ
- 494 Private households
- 495 Federal electric utilities
- 496 Other Federal Government enterprises
- 497 State and local government passenger transit
- 498 State and local government electric utilities
- 499 Other State and local government enterprises
- 500 Noncomparable imports

Appendix 1. IMPLAN Sectoring Scheme - Continued

501	Scrap
502	Used and secondhand goods
503	State & Local Education
504	State & Local Non-Education
505	Federal Military
506	Federal Non-Military
507	Rest of the world adjustment to final uses
508	Inventory valuation adjustment
509	Owner-occupied dwellings

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>

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