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Economic Impacts of Agriculture and Forestry in Tennessee, 1997



by

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Executive Summary

The agro-forestry industrial complex contributes \$56.7 billion to the Tennessee economy, accounting for 21 percent of the economic activity conducted within the state and employing 293,000 individuals. Outdoor hunting, fishing, and bird watching enthusiasts generate an additional 3.6 billion dollars annually. The agro-forestry industrial complex includes the primary industries typically associated with agriculture and forest operations such as the growing of crops, the breeding and feeding of livestock, and the management and logging of trees. Also included in the industrial complex are the input supply industries and the value-added sub-sectors, which include food and kindred products manufacturing, apparel and textiles, and forestry products manufacturing.

Agriculture, a subset of the agro-forestry industrial complex in Tennessee, includes farming and related industries, as well as value-added food and fiber production, processing and manufacturing. Agriculture accounts for 14.2 percent of the state's economy and generates \$38.5 billion in output. It employs about 218,000 Tennesseans, with 114,000 employed (both full- and part-time) in agricultural production. In addition,

- Raw agricultural products generate nearly \$2.4 billion in farm cash receipts annually.
- Tennessee farmers earn more than 63.5 percent of their cash receipts from sales of cattle and calves, cotton, broilers, tobacco, and dairy products.
- The manufacturing of food and kindred products adds value in excess of \$4.6 billion to the state's economy.
- Tobacco, soybeans, cotton, wheat, and poultry are important contributors to Tennessee's agricultural exports.

This analysis was conducted using the Tennessee Agri-Industry model (TNAIM) and the Impact Analysis for Planning (IMPLAN) model and databases, adjusted for agricultural data from the *1997 Census of Agriculture*. TNAIM, an input-output model for five trading regions within the state, traces transactions conducted within the economy and attempts to quantify the economic interdependencies within each region's economy for a given point in time. Through these interdependencies, one can evaluate the indirect and induced impacts that economic activity in one region might have on the entire state economy.

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Economic Impacts of Agriculture and Forestry in Tennessee

Introduction

State and national budget shortfalls have spurred renewed debate over the role and purpose of all government agencies. In order to justify expenditures, agricultural economists have been called upon to give insight into the economic size and effect of agriculture¹ on the state economy. Additionally, efforts to attract value-added agricultural industry have been promoted. Questions regarding the type of firms to attract, the sufficiency of resources required, and the environmental impacts that might occur are being asked.

This study examines the economic importance and impacts of agricultural and forestry industrial complexes on Tennessee's economy. Using an input-output model, direct impacts, impacts on related input industries, and impacts through resulting expenditures by households and institutions are estimated at both a state and five-region level. The impacts are provided for three major indicators: total industry output, employment, and value added.

When the land grant colleges were established in 1862, the boundaries of agriculture were fairly simple to define. They were literally the farm fences. Everything that occurred within those fences was agriculture. Sixty percent of the population lived on farms where inputs, food production, processing, storage, and consumption were mostly done on the farm. Today these tasks are woven into the larger pattern of society. Farms by themselves are no longer an adequate boundary to describe agriculture.

The definition of Tennessee's agricultural sector has been evolving through the past ten years. Gaines pointed out that the traditional accounting system includes only total sales within

¹ In this proposal, forestry and the production of forest products are incorporated in agriculture and agribusiness, respectively.

production agriculture, and excludes all agricultural input and output industries. According to this definition, agriculture only accounts for 2 percent of the Tennessee economy (Gaines, 1994). Smith expanded the definition to include all agribusiness, which includes farm input industries and output industries such as food packaging and clothing. Under this expansion, agriculture accounts for 25 percent of the Gross State Product (GSP) (Smith, 1985). Neal addressed this issue by using input-output analysis to find the direct, indirect, and induced effect coefficients (Neal, 1990). He used the expanded definition to compute the coefficients of impact upon the economy. The author laid down a much needed quantifiable procedure, but he did not apply these coefficients to the final demands of the sectors to get a total percentage of the economy attributed to agriculture.

Other states, besides Tennessee, have also been developing a procedure of agricultural impact accounting. Some narrowly define agriculture as only the farm production sector. Others view agriculture with a wider lens and include agricultural production, processing, input industries, transportation, agricultural financial services, real estate services, and wholesale and retail trade of food and fiber goods (Leones *et al.*, 1994). A few also include the forestry, lumber, and fishing sectors.

For the purpose of this analysis, agriculture and forestry includes the production and processing of agricultural and forest products and the input suppliers of these products. The objectives of this analysis are to: 1) provide an overview of Tennessee's agriculture and forestry resource base; and 2) evaluate the economic importance and impacts of the agricultural and forestry industrial complexes for the state and for specific consumption regions within the state. Detailed presentations of certain aspects of the modeling process and economic impacts from subsectors of agriculture and forestry are presented in Appendix Sections 1-3.

Overview of Agriculture and Forestry in Tennessee

Of the 26.4 million total acres in Tennessee, approximately 11.1 million acres, or 42 percent, are in farms. Cropland accounts for 63.6 percent of farmland, followed by woodland and pastureland at 23.5 percent and 8.8 percent, respectively. The predominant crops harvested, including acreage and Tennessee's ranking among states based on production, are summarized in Table 1.

Table 1. Crops Harvested, Acreage, and State Ranking

Crops	Acreage (Thousands of Acres)	State Ranking
Hay (all types)	1,646	--
Soybeans for beans	1,156	18
Corn for grain	576	18
Cotton	472	10
Wheat for grain	305	20
Corn for silage	68	--
Tobacco	59	3
Vegetables	35	--
Sorghum for grain	10	14
Orchards	4	--

Source: 1997 Census of Agriculture, USDA; Tennessee Agriculture 2000, Tennessee Agricultural Statistics Service

Cattle and calves, poultry and poultry products, dairy products, and hogs and pigs are the predominant livestock in the state. According to the *1997 Census of Agriculture*, the value of livestock, poultry, and their products sold totaled over \$1 billion. Of that total value, cattle and calves contributed 41.2 percent, poultry and poultry products 28.3 percent, dairy products 20.2 percent, and hogs and pigs 7.0 percent. Tennessee ranks 14th in the United States for number of cattle and calves and 23rd for hogs and pigs. Beef cows are the predominant cattle raised (Tennessee Agricultural Statistics Service, 2000).

From 1996 to 1999, the number of farms in the state remained relatively stable at 91,000. The average size farm in 1997 was 131 acres compared to 432 acres for the United States.

Figure 1 shows the distribution of average farm sizes by county across the state. Topography, beginning from the eastern part of the state to the west, is mountainous to fairly level. The average farm size is smaller in the eastern and middle part of the state and larger in the western part. Approximately 75.8 percent of the total number of farms had sales in the \$1,000-\$9,999 range, 19.8 percent in the \$10,000-\$99,999 range, and 4.4 percent had sales \$100,000 or more (1997 Census of Agriculture, Tennessee Agricultural Statistics Service, 2000).

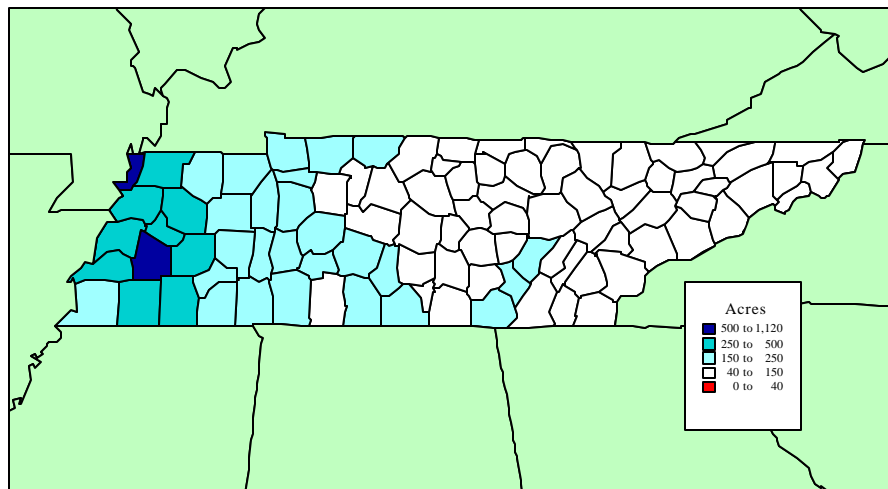


Figure 1. Average Farm Size for Tennessee, 1997.

Tennessee’s more significant agricultural commodities in terms of value, along with their corresponding U.S. market share, are shown in Table 2. In descending order they are cattle, poultry and eggs, hay and pasture, oil-bearing crops, greenhouse and nursery products, dairy farm products, cotton, tobacco, and feed grains (barley, corn, oats, and sorghum for grain). Tobacco and cotton have the largest U.S. market share at 6.45 percent and 3.47 percent, respectively (1997 Census of Agriculture). For the commodities listed in Table 2, the maps in Figures 2 through 10 show the predominant areas where they are produced throughout the state.

Table 2. State Value of Agricultural Commodities and U.S. Market Share

Commodity	Value (Million \$)	U.S. Market Share (Percent)
Cattle	426	1.05
Poultry & Eggs	293	1.32
Hay & Pasture	280	1.71
Oil Bearing Crops	245	1.57
Greenhouse & Nursery Products	213	1.95
Dairy Farm Products	209	1.10
Cotton	208	3.47
Tobacco	189	6.45
Feed Grains	148	0.62

Source: 1997 Census of Agriculture, 1997 IMPLAN Data

Tennessee agricultural exports in 1999 totaled a little over \$382 million. The value of the more predominant commodities exported include unmanufactured tobacco at \$85 million, soybeans and soybean products at \$84 million, cotton and cottonseed products at \$51 million, poultry and poultry products at \$31 million, and dairy products at \$9 million (Tennessee Agricultural Statistics Service, 2000).

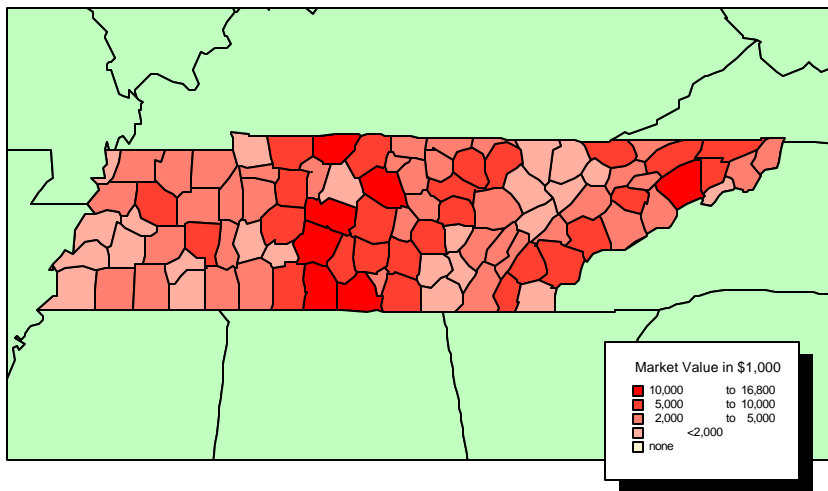


Figure 2. Market Value of Cattle & Calves Sold, 1997.

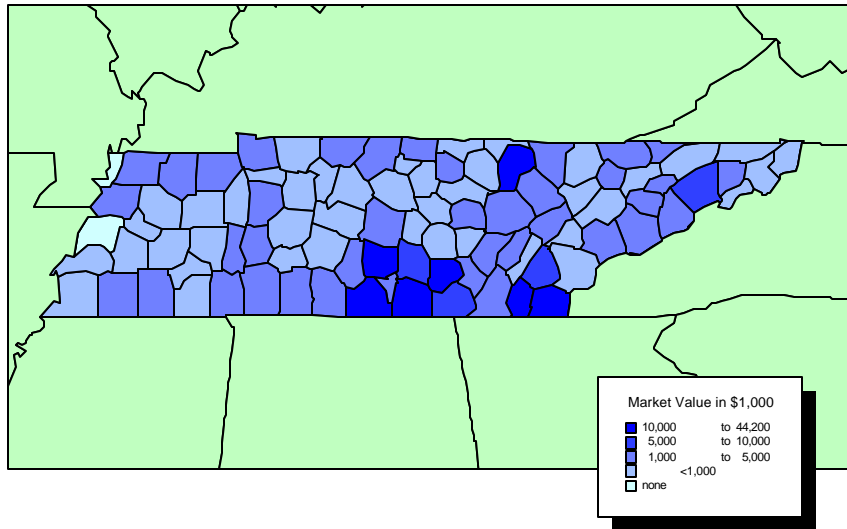


Figure 3. Market Value of Poultry & Poultry Products Sold, 1997.

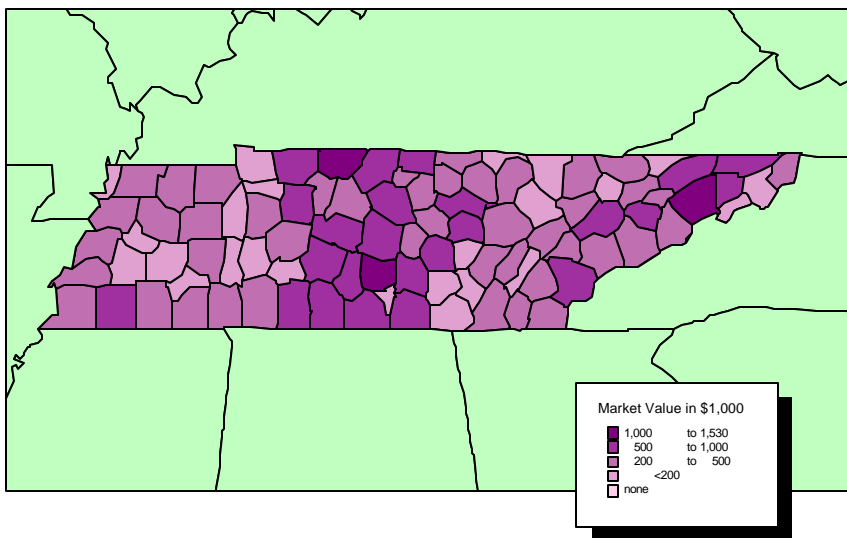


Figure 4. Market Value of Hay, Silage, and Field Seeds Sold, 1997.

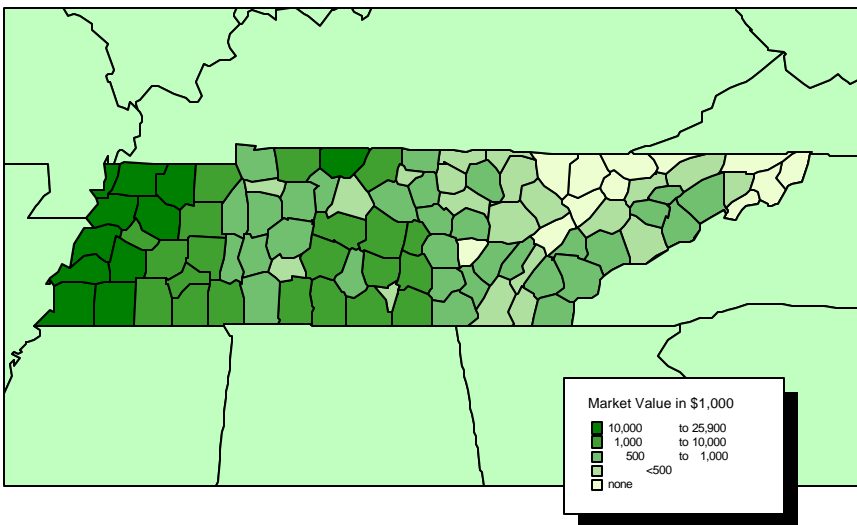


Figure 5. Market Value of Soybeans Sold, 1997.

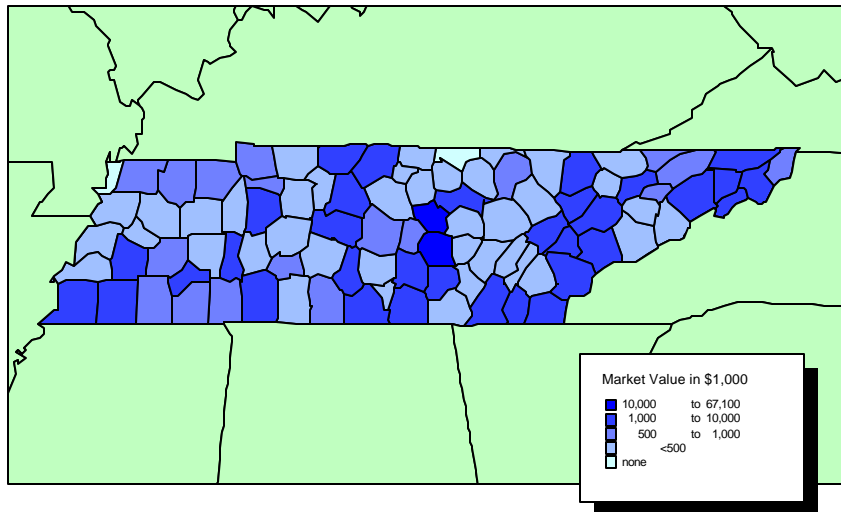


Figure 6. Market Value of Nursery & Greenhouse Crops Sold, 1997.

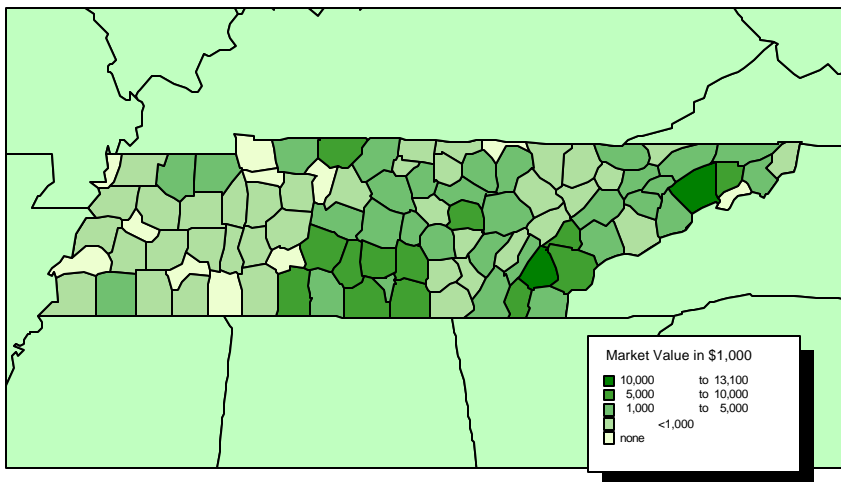


Figure 7. Market Value of Dairy Products Sold, 1997.

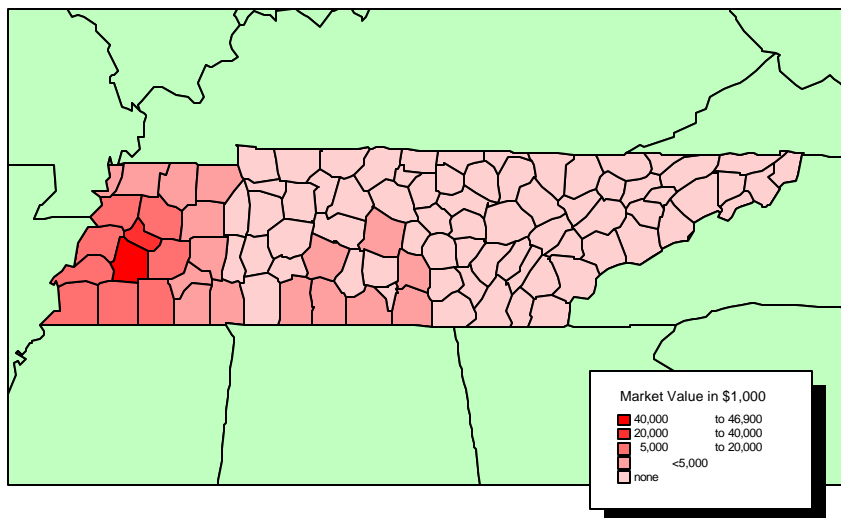


Figure 8. Market Value of Cotton Sold, 1997.

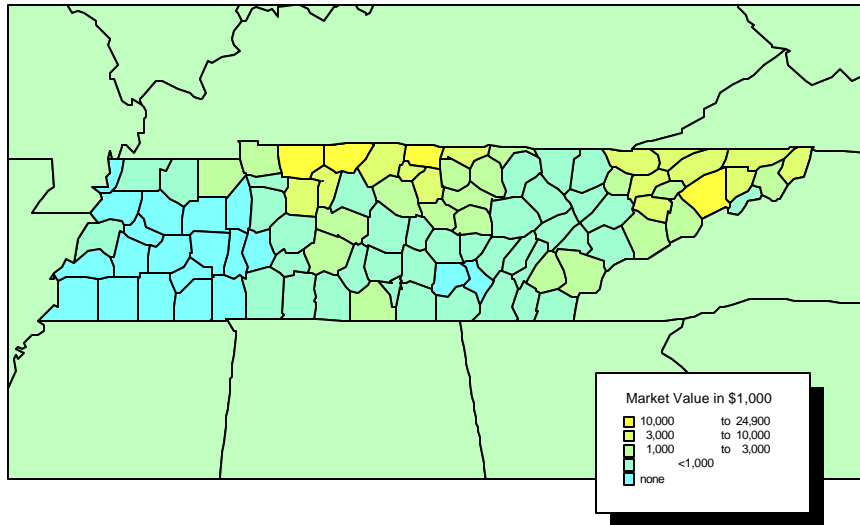


Figure 9. Market Value of Tobacco Sold, 1997.

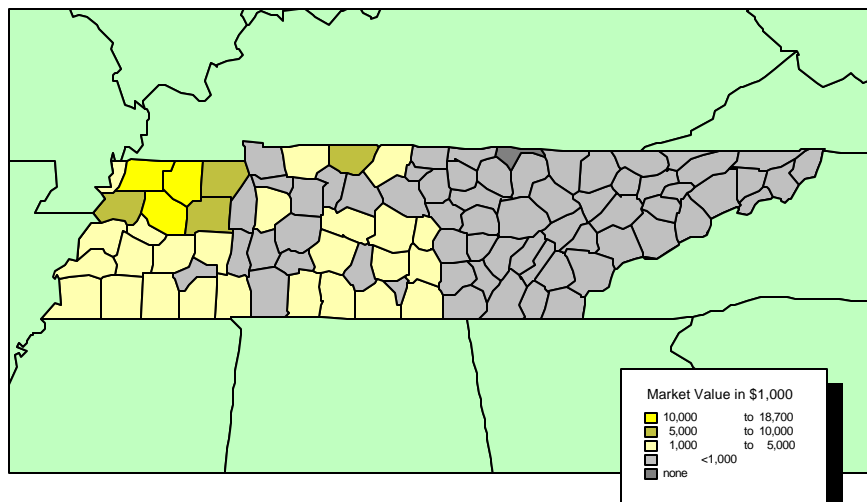


Figure 10. Market Value of Feed Grains Sold, 1997.

Tennessee has witnessed an increase in forest areas over the last couple of decades, primarily due to farmlands reverting back to forest. According to the United States Forest Service in 1999, approximately 55 percent of the state is forested. Hardwoods, at 78 percent, are the predominant species. White oak, red oak, hickory, yellow poplar, and maple are some of the more predominant hardwood species. Major species of softwoods include loblolly pine, virginia pine, redcedar, and shortleaf pine. Approximately 69.4 percent of the total forest area is owned by individuals, 13.9 percent by government, 9.7 percent by forest industry, and 7 percent by other corporations (Tennessee Division of Forestry).

Counties with large volumes of standing timber include Hardeman, Hardin, Wayne, Perry, Humphrey, and Hickman in middle and west Tennessee, and Cumberland, Morgan, Scott, and Campbell in east Tennessee (Figure 11). For timber removals, Hardeman, McNairy, Hardin, Wayne, Perry, and Hickman counties have large acreages (Figure 12). Counties in the outer basin between middle and west Tennessee and counties in the Cumberland Plateau area of east Tennessee are heavily forested (Figure 13).

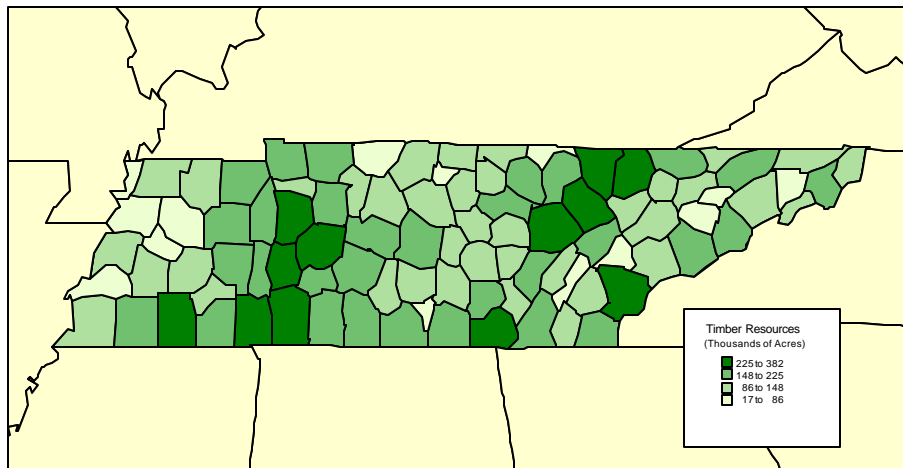


Figure 11. Tennessee's Standing Timber Resources, 1997.

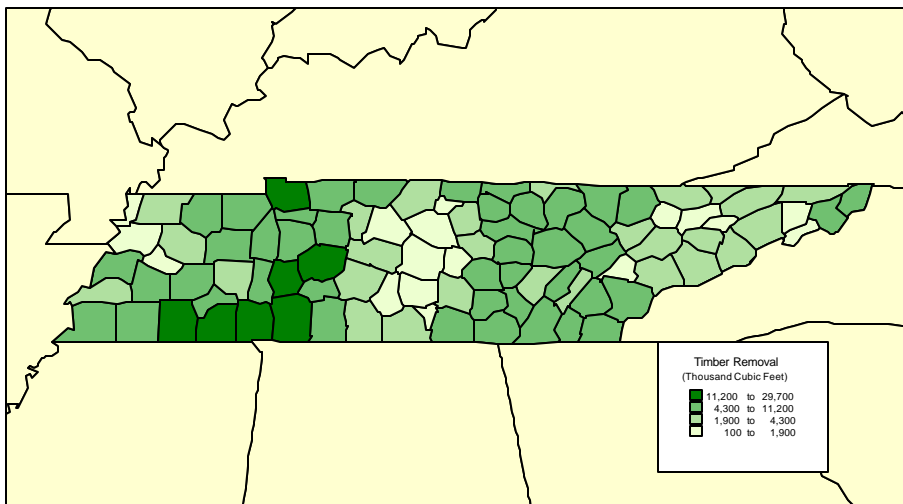


Figure 12. Timber Removal in Tennessee, 1997.

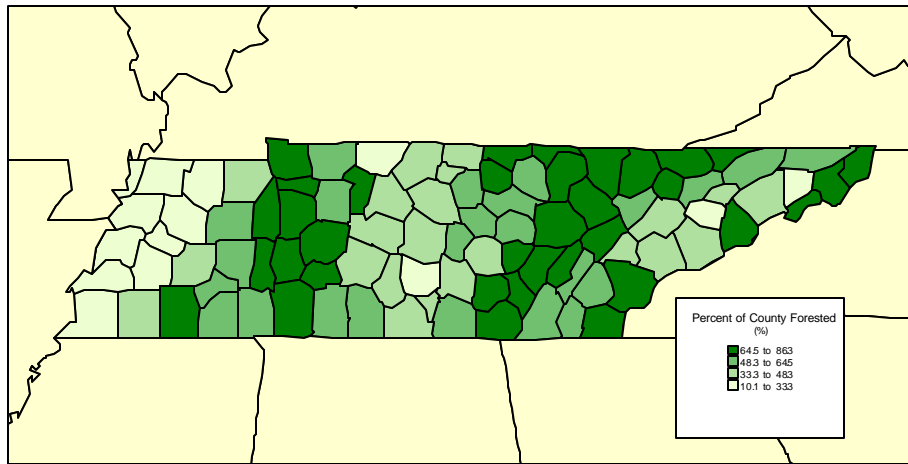


Figure 13. Forest Coverage in Tennessee Counties, 1997.

Manufacturing industries for the state include food and kindred products, tobacco products, textile mill products, apparel and other textile products, lumber and wood products, furniture and fixtures, and paper and allied products. Jobs and wages are created when raw agricultural and forest commodities are processed, handled, and marketed. In 1996, over \$26 billion dollars of goods were shipped, close to 177,000 Tennesseans were employed, with a payroll close to \$4 billion (Table 3). Food and kindred products shipped the largest value, close to \$11 billion, followed by paper and allied products at \$4.2 billion, and apparel and textile products at \$3.4 billion. Forest products as a group, lumber and wood products, furniture and fixtures, and paper and allied products, shipped over \$9 billion of goods. Tennessee's market share of the United States for value of shipments for food and kindred products is 2.3 percent, followed by textile mill products at 3.1 percent, apparel and other textile products at 4.4 percent, lumber and wood products at 2.3 percent, furniture and fixtures at 5.3 percent, and paper and allied products at 2.6 percent.

Although apparel and textile products manufacturers employ the largest number of individuals, recent trends of decrease employment have occurred. However, food and kindred products processors and forest products manufacturers (lumber and wood products, furniture and

fixtures, and paper and allied products) employ a large share compared to apparel and textile products manufacturers. For the industries listed in Table 3, the maps in Figures 14 through 20 show the predominant areas where these manufacturing and processing establishments are located throughout the state.

Table 3. 1996 Manufacturing Statistics for Tennessee

Manufacturing Industry	Employees (Number)	Payroll (Million \$)	Establishments (Number)	Value of Shipments (Million \$)
Food & Kindred Products	37,800	1,060	323	10,835
Tobacco Products	871	27	8	--- ^a
Textile Mill Products	19,700	443	172	2,512
Apparel & Other Textile Products	48,700	750	507	3,432
Lumber & Wood Products	21,500	400	1,087	2,454
Furniture & Fixtures	28,900	634	313	2,935
Paper & Allied Products	19,300	651	181	4,217
Total	176,771	3,965	2,591	26,385

^a Data not disclosed.

Source: U.S. Census Bureau

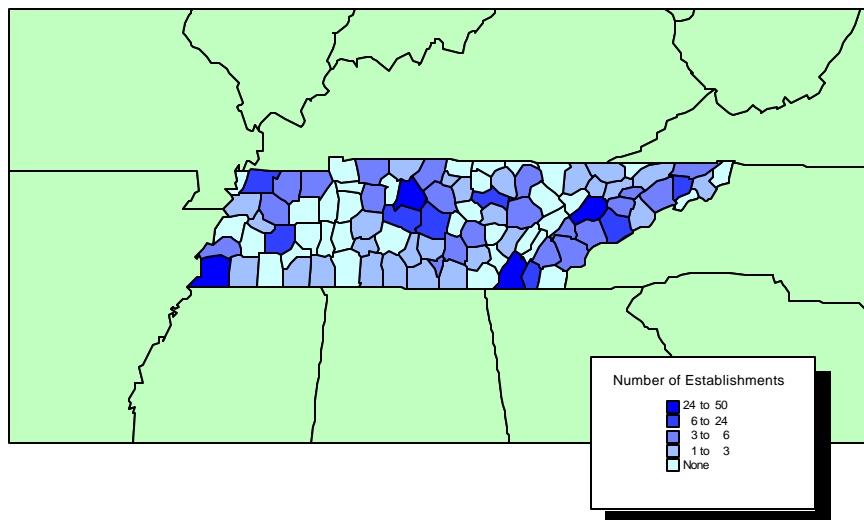


Figure 14. Number of Food & Kindred Products Establishments in Tennessee, 1996.

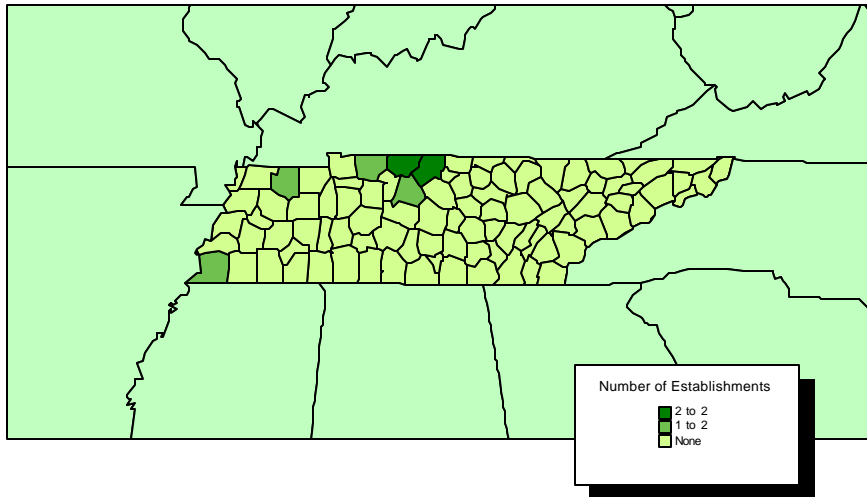


Figure 15. Number of Tobacco Products Establishments in Tennessee, 1996.

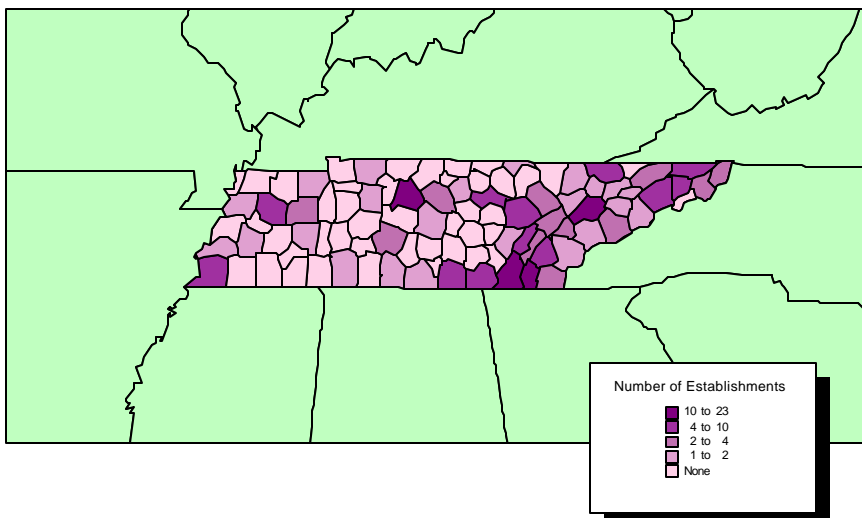


Figure 16. Number of Textile Mill Products Establishments in Tennessee, 1996.

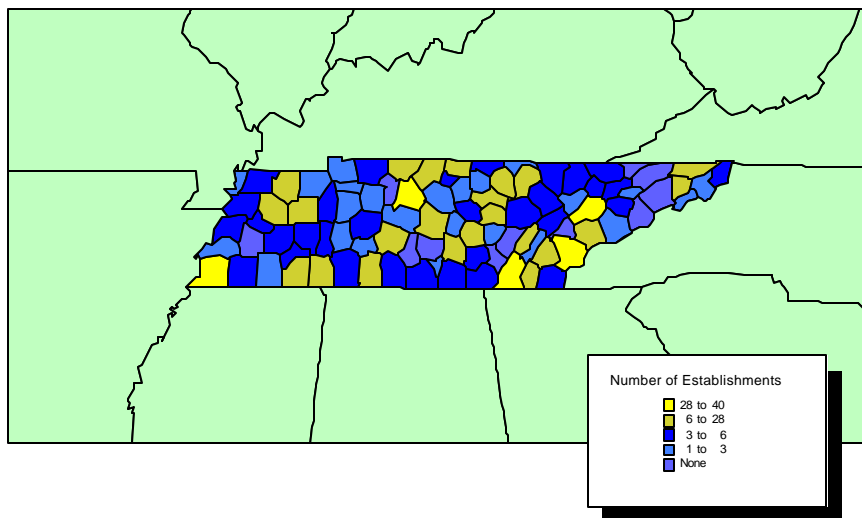


Figure 17. Number of Apparel & Other Textile Products Establishments in Tennessee, 1996.

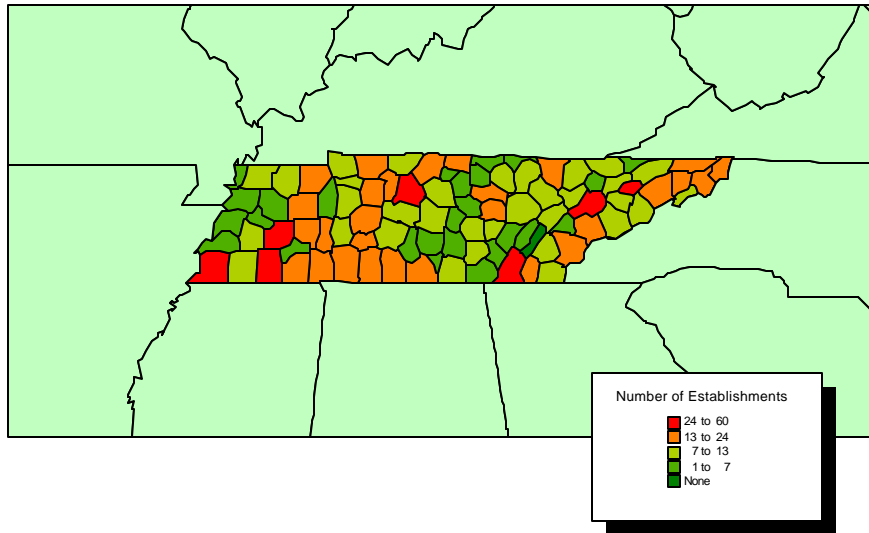


Figure 18. Number of Lumber & Wood Products Establishments in Tennessee, 1996.

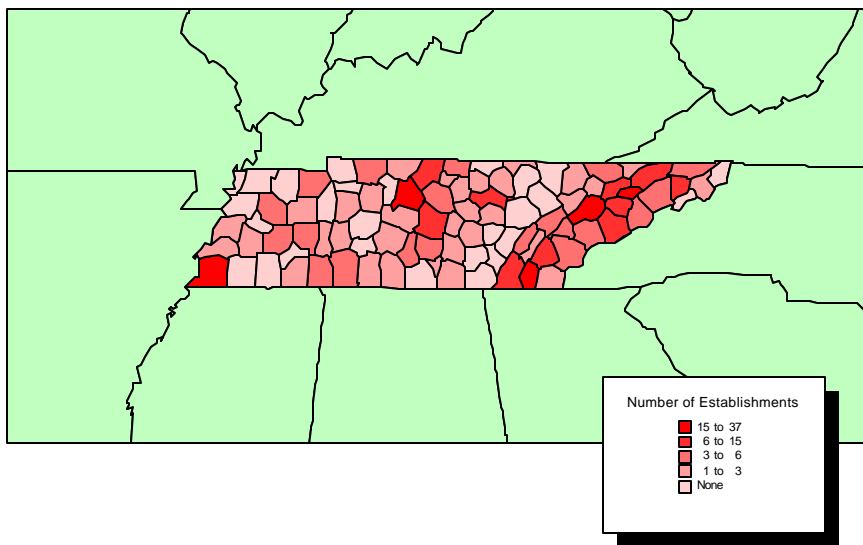


Figure 19. Number of Furniture & Fixtures Establishments in Tennessee, 1996.

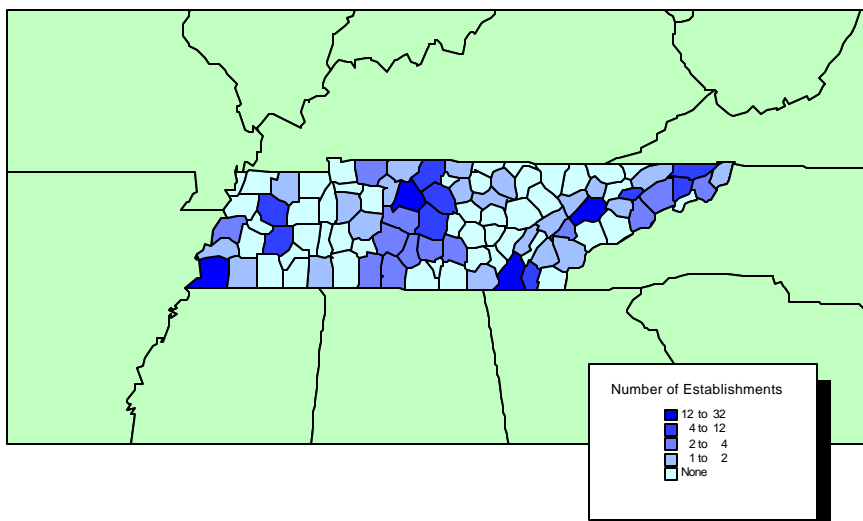


Figure 20. Number of Paper & Allied Products Establishments in Tennessee, 1996.

Data and Methods Used

The Tennessee Agri-Industry model is used to model industry and institutional interrelationships in each of five regions within Tennessee. The Tennessee Agri-Industry model uses the Impact Analysis for Planning (IMPLAN) model and databases, adjusted for agricultural data from the *1997 Census of Agriculture* (see Appendix Section 1 for further details about the data adjustment and model) (Olson and Lindall, 1999). The five regions are based on those used by the Bureau of Economic Analysis to represent areas of economic consumption (consumption regions), as displayed in Figure 21 (for county listings, see Appendix Section 1, Table A.2). Regional values are then aggregated to the state level.

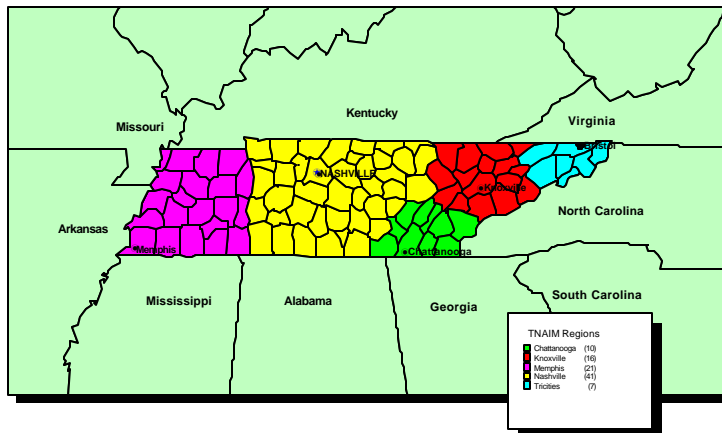


Figure 21. Tennessee Agri-Industry Model Analysis Regions

IMPLAN employs a regional social accounting system and can be used to generate a set of balanced economic/social accounts and multipliers. The social accounting system is an extension of input-output analysis.² Input-output analysis can provide important and timely

² Input-output (I-O) analysis, also known as inter-industry analysis, is the name given to an analytical work conducted by Wassily Leontief in the late 1930's. The fundamental purpose of the I-O framework is to analyze the interdependence of industries in an economy through market-based transactions.

information on the interrelationships in a regional economy and the impacts of changes on that economy. Input-output analysis has been expanded beyond market-based transaction accounting to include non-market financial flows by using a social accounting matrix or SAM framework (Pyatt and Round, 1985). The model describes the transfers of money between industries and institutions and contains both market-based transactions and non-market financial flows, such as inter-institutional transfers (see Figure 22). The 'Make' and 'Use' components of the SAM include the commodities made and used by industries. Factors represent the value-added by industries, including wages and compensation to workers, interest, profits, and indirect business taxes. Capital includes expenditures made by industries and institutions to obtain equipment and construction. The SAM takes into account corporate profits as 'Enterprises'. The SAM also accounts for non-industrial financial flows, including factor exports and imports, institution exports, factor distribution, and inter-institutional transfers. Factor exports (imports) are payments, such as employee compensation or stock dividend received (paid) from outside the region. Institution exports would include situations such as a person from inside the region working outside the region. Factor distributions are payments from the factor sectors to institutions, such as households or governments. Inter-institutional transfers include payments between institutions, such as federal government grants to state governments, welfare, social security payments, and taxes paid to governments.

The model uses regional purchase coefficients generated by econometric equations that predict local purchases based on a region's characteristics. Output from the model includes descriptive measures of the economy including total industry output, employment, and value-added for over 500 industries in the Tennessee economy. Total industry output is defined as the

	Industry	Commodity	Factors	Institutions	Enterprises	Capital	Trade	Total
Industry		Make					Exports	Total Industry Output
Commodity	Use			Consumption		Consumption		Total Commodity Output
Factors	Value Added						Exports	Total Factor Income
Institutions		Sales	Transfers	Transfers	Transfers		Exports	Total Institutional Income
Enterprises								Total Enterprise Income
Capital								Total Capital Income
Trade	Imports		Factor Trade	Imports		Transfers	Exports	Total Trade Income
Total	Total Industry Outlay	Total Commodity Outlay	Total Factor Outlay	Total Institutional Outlay	Total Enterprise Outlay	Total Capital Outlay	Total Regional Exports	

Figure 22. Social Accounting Matrix Framework

Source: *Implan Pro Manual, Version 2.0.*

value of production by industry per year. Employment represents total wage and salary employees, as well as self-employed jobs in a region, for both full-time and part-time workers. Total value added is defined as all income to workers paid by employers; self-employed income; interests, rents, royalties, dividends, and profit payments; and excise and sales taxes paid by individuals to businesses. The model also can be used for predictive purposes, by providing estimates of multipliers.

Multipliers measure the response of the economy to a change in demand or production. Multiplier analysis generally focuses on the effects of exogenous changes on: a) output of the sectors in the economy, b) income earned by households because of the new outputs, and c) employment (in physical terms) that is expected to be generated because of the new outputs. The notion of multipliers rests upon the difference between the initial effect of an exogenous change (final demand) and the total effects of a change. Direct effects measure the response for a given industry given a change in final demand for that same industry. Indirect effects represent the response by all local industries from a change in final demand for a specific industry. Induced effects represent the response by all local industries caused by increased (decreased) expenditures of new household income and inter-institutional transfers generated (lost) from the direct and indirect effects of the change in final demand for a specific industry. This study uses Type I and Type SAM (Social Accounting Matrix) multipliers. Type I multipliers are calculated by dividing direct plus indirect effects by the direct effects, where the Type SAM multipliers = $(\text{direct} + \text{indirect} + \text{induced effects}) / \text{direct effects}$. The Type SAM multipliers take into account the expenditures resulting from increased incomes of households as well as inter-institutional transfers resulting from the economic activity. Therefore, Type SAM multipliers assume that as final demand changes, incomes increase along with inter-institutional transfers. As these people

and institutions increase expenditures this leads to increased demands from local industries.

Economic Impacts at the State & In-state Region Levels

The direct values for total industry output (TIO), total value-added (TVA), employment, and wages and salaries for agriculture and forestry in 1997 are presented in Table 4. The values are also presented according to the analysis regions within the state.

In 1997, agriculture and forestry related industries contributed a total of \$31.4 billion in direct economic activity to the state of Tennessee or close to 12 percent of the state's economy. Employment in agriculture and forestry related industries is about 293.4 thousand persons or 8.9 percent of the workforce. Total value added was close to \$10 billion with nearly \$6 billion in wages and salaries. Much of the industry output generated from agriculture and forestry were through secondary or manufactured products. Employment was more evenly divided between primary and secondary industries for agriculture, where as for forestry, close to 71% of the workforce was employed in secondary industries. Wages are generated about 10 to 1 in secondary industries compared with primary industries for agriculturally related industries and about 2 to 1 in secondary industries compared with primary for forestry products.

About 43 percent of the value of output from primary agriculture originates in the Nashville Region, followed by the Memphis Region (Figure 23). However, the greatest value for total industry output from secondary agriculture is from the Memphis Region followed by the Nashville Region. For both primary and secondary forestry products, the Memphis Region has the greatest value for total industry output followed by the Nashville Region for primary forestry and the Knoxville Region for secondary forestry. The Knoxville Region contributes 26 percent of the value from secondary forestry, almost twice the Region's share from secondary agriculture. The Chattanooga Region's largest share, 20%, is for secondary agriculture, followed

by secondary forestry. The Tri-Cities Region's contribution ranges from 5 to 9 percent of the state's industry output from both primary and secondary agriculture and forestry.

Table 4. Direct Economic Activity in Agriculture and Forestry

Sector	TIO ^a (Million \$)	TVA ^b (Million \$)	Employment (Number)	Wages (Million \$)
All Sectors (Including Non-Agricultural and Non-Forestry):				
State ^c	270,157	144,956	3,291,824	86,833
Memphis	76,565	42,360	909,334	25,230
Nashville	103,653	54,756	1,234,582	32,380
Chattanooga	30,623	16,125	349,163	9,492
Knoxville	41,490	22,366	551,049	13,687
Tri-Cities	17,826	9,349	247,696	6,044
Agriculture & Forestry:				
State ^c	31,450	9,814	293,388 ^d	5,857
Memphis	10,171	3,110	67,488	1,766
Nashville	8,872	2,737	101,365	1,535
Chattanooga	5,540	1,765	41,490	1,122
Knoxville	5,045	1,666	57,454	1,089
Tri-Cities	1,820	536	25,403	345
Primary & Secondary Agriculture:				
State ^c	21,060	6,204	218,305 ^d	3,534
Memphis	6,524	1,840	47,059	995
Nashville	6,577	1,945	82,694	1,026
Chattanooga	3,873	1,181	29,813	727
Knoxville	2,986	927	38,435	588
Tri-Cities	1,099	310	20,116	198
Primary Agriculture:				
State ^c	2,899	868	114,332 ^d	318
Memphis	893	242	22,031	86
Nashville	1,257	369	51,210	136
Chattanooga	248	52	7,594	21
Knoxville	303	132	19,553	51
Tri-Cities	196	74	13,756	25
Secondary Agriculture:				
State ^c	18,161	5,336	103,972	3,215
Memphis	5,631	1,598	25,028	909
Nashville	5,320	1,577	31,484	890
Chattanooga	3,624	1,130	22,219	706
Knoxville	2,683	796	18,882	538
Tri-Cities	902	236	6,360	174

Table 4. (Continued)

Sector	TIO ^a (Million \$)	TVA ^b (Million \$)	Employment (Number)	Wages (Million \$)
Primary & Secondary Forestry:				
State ^c	10,390	3,610	75,084	2,323
Memphis	3,647	1,270	20,430	771
Nashville	2,294	792	18,671	509
Chattanooga	1,667	584	11,676	395
Knoxville	2,059	738	19,019	501
Tri-Cities	722	227	5,287	147
Primary Forestry:				
State ^c	3,451	1,226	21,990	716
Memphis	1,662	587	7,972	350
Nashville	702	242	6,472	133
Chattanooga	499	184	2,215	108
Knoxville	279	108	3,194	60
Tri-Cities	309	104	2,135	66
Secondary Forestry:				
State ^c	6,938	2,384	53,094	1,607
Memphis	1,985	682	12,457	422
Nashville	1,592	550	12,199	376
Chattanooga	1,168	399	9,461	288
Knoxville	1,780	630	15,825	441
Tri-Cities	413	122	3,152	80

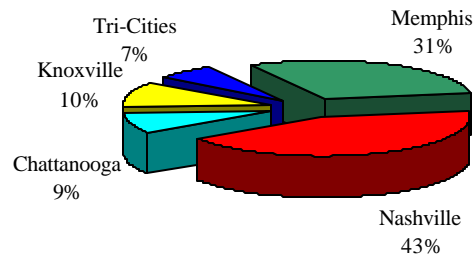
^a Total Industry Output – value of production by industry by year.

^b Total Value Added – income to workers paid by employers; self-employed income; interests, rents, royalties, dividends, and profit payments; and excise and sales taxes paid by individuals to businesses.

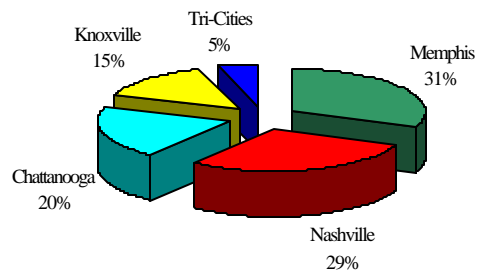
^c State totals may not add due to rounding.

^d Located in the state but not disaggregated to individual regions.

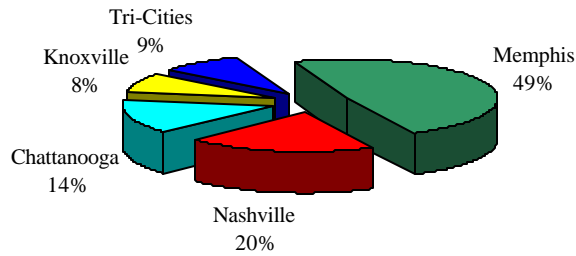
Primary Agriculture



Secondary Agriculture



Primary Forestry



Secondary Forestry

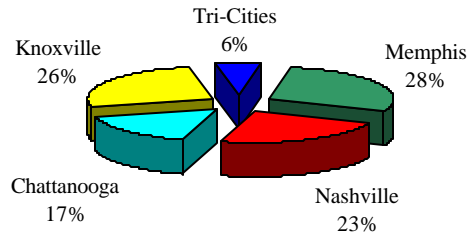


Figure 23. Direct Total Industry Output from Agriculture and Forestry by Market Level and Analysis Region.

Primary Agricultural Products:

The largest output value from farm production is from cattle and calves, which comprises nearly 18% of the value (see Table 5). Poultry and eggs, hay and pasture, and oil-bearing crops, primarily soybeans, follow cattle and calves. Each of these also comprise greater than 10 percent of the value of output from farm production. Greenhouse and nursery products, dairy farm products, cotton, and tobacco are also important farm products. Primary agricultural products also include agricultural, forestry, and fishery services, as well as landscape and horticultural services.

Table 5. State Level: Direct Economic Activity in Farm Production

Rank	Sector	TIO ^a (Million \$)	TVA ^b (Million \$)	Employment (Number)	Wages (Million \$)
	All Farm Production:	2,420	528	94,241	130
1	Cattle	426	70	15,306	24
2	Poultry and Eggs	293	31	2,355	10
3	Hay and Pasture	280	84	32,429	8
4	Oil Bearing Crops	245	63	6,963	8
5	Greenhouse and Nursery Products	213	73	5,353	24
6	Dairy Farm Products	209	45	3,374	14
7	Cotton	208	39	2,028	7
8	Tobacco	189	41	12,013	18
9	Feed Grains	148	35	3,676	2
10	Hogs, Pigs and Swine	72	7	1,814	3
11	Vegetables	49	19	1,329	6
12	Food Grains	44	11	1,762	1
13	Miscellaneous Livestock	33	7	4,823	3
14	Fruits	6	2	253	1
15	Miscellaneous Crops	3	1	256	0 ^c
16	Sheep, Lambs and Goats	1	0 ^c	321	0 ^c
17	Grass Seeds	1	0 ^c	186	0 ^c
18	Other Meat Animal Products	1	0 ^c	2	0 ^c

^a Total Industry Output – value of production by industry by year.

^b Total Value Added – income to workers paid by employers; self-employed income; interests, rents, royalties, dividends, and profit payments; and excise and sales taxes paid by individuals to businesses.

^c Values of 0 are nonzero values that are less than 1.

The direct economic activity from farm production of the top ten sectors for each region within the state is summarized in Table 6. Cotton and soybeans are primary contributors to total industry output from farm production in the Memphis region. In the Nashville region, cattle, poultry and eggs, hay and pasture, greenhouse and nursery products, and tobacco are important sectors. In the Chattanooga region, poultry contributes the greatest output, while in the Knoxville region greatest total industry output values are from cattle and hay and pasture. For the Tri-Cities region, tobacco, cattle, and hay and pasture contribute the greatest total industry output.

Table 6. Region Level: Direct Economic Activity in Farm Production (Top Ten Sectors)

Rank	Sector	TIO ^a (Million \$)	TVA ^b (Million \$)	Employment (Number)	Wages (Million \$)
Memphis:					
1	Cotton	205	38	1,965	7
2	Oil Bearing Crops	201	43	4,901	5
3	Feed Grains	101	18	1,889	1
4	Cattle	61	6	1,368	2
5	Hogs, Pigs and Swine	47	4	780	1
6	Hay and Pasture	34	6	2,583	1
7	Food Grains	30	5	999	0 ^c
8	Greenhouse and Nursery Products	23	7	429	2
9	Dairy Farm Products	10	1	99	0 ^c
10	Vegetables	7	1	154	0 ^c
Nashville:					
1	Cattle	233	38	7,909	14
2	Poultry and Eggs	166	15	1,181	5
3	Hay and Pasture	150	44	16,178	4
4	Greenhouse and Nursery Products	145	40	2,916	13
5	Tobacco	110	21	5,296	9
6	Dairy Farm Products	101	21	1,452	7
7	Oil Bearing Crops	41	19	1,789	2
8	Feed Grains	41	14	1,465	1
9	Hogs, Pigs and Swine	24	3	689	1
10	Miscellaneous Livestock	20	4	2,615	2

Table 6. (Continued)

Rank	Sector	TIO ^a (Million \$)	TVA ^b (Million \$)	Employment (Number)	Wages (Million \$)
Chattanooga:					
1	Poultry and Eggs	86	7	587	2
2	Dairy Farm Products	43	7	585	2
3	Cattle	36	4	1,069	1
4	Hay and Pasture	28	6	2,679	1
5	Vegetables	6	2	175	1
6	Greenhouse and Nursery Products	6	2	154	1
7	Tobacco	4	1	224	0 ^c
8	Oil Bearing Crops	3	1	163	0 ^c
9	Feed Grains	2	1	96	0 ^c
10	Fruits	2	0 ^c	22	0 ^c
Knoxville:					
1	Cattle	57	13	2,950	4
2	Hay and Pasture	39	16	6,232	1
3	Greenhouse and Nursery Products	32	18	1,226	6
4	Tobacco	31	8	2,956	4
5	Dairy Farm Products	28	9	647	3
6	Poultry and Eggs	23	5	346	2
7	Vegetables	9	6	288	2
8	Miscellaneous Livestock	3	1	797	0 ^c
9	Feed Grains	2	1	129	0 ^c
10	Hogs, Pigs and Swine	1	0 ^c	164	0 ^c
Tri-Cities:					
1	Tobacco	40	10	3,471	4
2	Cattle	39	9	2,011	3
3	Hay and Pasture	29	13	4,757	1
4	Dairy Farm Products	27	8	591	2
5	Vegetables	13	7	167	2
6	Poultry and Eggs	13	3	181	1
7	Greenhouse and Nursery Products	8	6	628	2
8	Miscellaneous Livestock	2	1	668	0 ^c
9	Feed Grains	1	1	97	0 ^c
10	Fruits	0 ^c	0 ^c	37	0 ^c

^a Total Industry Output – value of production by industry by year.

^b Total Value Added – income to workers paid by employers; self-employed income; interests, rents, royalties, dividends, and profit payments; and excise and sales taxes paid by individuals to businesses.

^c Values of 0 are nonzero values that are less than 1.

Secondary Agricultural Products:

As shown in Table 7, among secondary agricultural products, food and kindred products contribute the largest total industry output. Statewide, over one-half of the value of total industry output from processed agricultural products comes from food processing. In addition, food processing is second to apparel in employing the most people and pays the largest amount of wages across the state. The value of total industry output from the food-processing sector is followed in value by apparel manufacturing and textile milling. A more detailed presentation of the total industry output from processing by sub-sector is shown in the Appendix Section 2.

Table 7. Direct Economic Activity in Secondary Agricultural Products

Sector	TIO ^a (Million \$)	TVA ^b (Million \$)	Employment (Number)	Wages (Million \$)
Food & Kindred Products:				
State ^c	9,641	2,570	35,917	1,407
Memphis	3,293	861	10,260	478
Nashville	2,519	653	9,680	324
Chattanooga	2,231	693	9,498	378
Knoxville	1,324	306	5,521	187
Tri-Cities	273	58	958	40
Apparel:				
State ^c	3,415	1,159	39,168	866
Memphis	697	212	8,538	165
Nashville	1,190	391	14,153	302
Chattanooga	408	138	4,729	103
Knoxville	945	361	9,545	251
Tri-Cities	176	57	2,203	44
Textiles:				
State ^c	2,591	717	18,803	552
Memphis	403	92	2,412	79
Nashville	551	160	2,982	105
Chattanooga	887	259	7,202	202
Knoxville	378	111	3,548	91
Tri-Cities	371	96	2,658	76
Agricultural Machinery:				
State ^c	987	293	3,985	140
Memphis	586	167	2,322	78
Nashville	271	86	1,021	41
Chattanooga	71	24	397	13
Knoxville	3	1	15	0 ^d
Tri-Cities	55	15	230	7

Table 7. (Continued)

Sector	TIO ^a (Million \$)	TVA ^b (Million \$)	Employment (Number)	Wages (Million \$)
Tobacco Products:				
State ^c	756	275	1,190	84
Memphis	284	112	402	35
Nashville	469	163	782	49
Chattanooga	0	0	0	0
Knoxville	0	0	0	0
Tri-Cities	3	0 ^d	6	0 ^d
Agricultural Chemicals:				
State ^c	440	178	816	81
Memphis	334	140	524	66
Nashville	87	30	243	12
Chattanooga	7	3	17	1
Knoxville	9	3	22	1
Tri-Cities	4	1	10	1
Leather Goods:				
State ^c	332	144	4,093	86
Memphis	34	13	570	8
Nashville	234	94	2,621	58
Chattanooga	20	13	376	8
Knoxville	24	14	231	7
Tri-Cities	21	9	294	6

^a Total Industry Output – value of production by industry by year.

^b Total Value Added – income to workers paid by employers; self-employed income; interests, rents, royalties, dividends, and profit payments; and excise and sales taxes paid by individuals to businesses.

^c State totals may not add due to rounding.

^d Values of 0 are nonzero values that are less than 1.

Primary Forest Products:

As shown in Table 8, the largest output value from primary forest products is from pulp, paper, and paperboard mills with the Memphis Region comprising over 63% of the state's value. Sawmills, planing and flooring mills employ the largest number of individuals. For this industry, the Nashville Region employs the largest number followed by Memphis and Knoxville. For IMPLAN analysis, forest products is defined as the production of stumpage, pulpwood, fuel wood, Christmas trees, and fence posts. Forestry products, on the other hand, are establishments that operate timber tracts, tree farms, and forest nurseries as well as conduct reforestation activities. The Nashville Region has the largest output values for sawmills, planing, and flooring mills; forest and forestry products; and logging.

Table 8. Direct Economic Activity in Primary Forest Products

Sector	TIO ^a (Million \$)	TVA ^b (Million \$)	Employment (Number)	Wages (Million \$)
Pulp, Paper and Paperboard Mills:				
State ^c	1,966	714	6,928	448
Memphis	1,251	449	4,230	275
Nashville	91	34	379	23
Chattanooga	409	154	1,391	99
Knoxville	24	7	114	5
Tri-Cities	190	69	815	46
Sawmills, Planing & Flooring Mills:				
State ^c	1,060	375	10,465	239
Memphis	312	106	2,935	67
Nashville	466	157	4,277	99
Chattanooga	32	9	342	6
Knoxville	179	76	2,229	50
Tri-Cities	71	26	682	17
Forest and Forestry Products:				
State ^c	250	78	3,392	7
Memphis	51	16	491	1
Nashville	70	26	1,293	2
Chattanooga	42	15	376	1
Knoxville	48	15	659	1
Tri-Cities	38	7	573	2
Logging:				
State ^c	176	59	1,205	22
Memphis	47	16	317	6
Nashville	76	25	524	9
Chattanooga	17	6	106	2
Knoxville	27	9	194	3
Tri-Cities	9	3	65	1

^a Total Industry Output – value of production by industry by year.

^b Total Value Added – income to workers paid by employers; self-employed income; interests, rents, royalties, dividends, and profit payments; and excise and sales taxes paid by individuals to businesses.

^c State totals may not add due to rounding.

Secondary Forest Products:

Likewise, for secondary forest products, paper and allied products followed by furniture manufacturing have the largest output values (see Table 9). For paper and allied products, the Memphis Region has the largest values for output, value added, employment, and wages. The furniture industry for this analysis is comprised of household, office, and public building furniture. This industry employs the largest number of individuals in the state for secondary forest products. For furniture, the Knoxville Region followed by the Chattanooga Region has the

largest values for output, value added, employment, and wages. For the other wood products category, wood containers, wood partitions and fixtures, miscellaneous wood products, the Knoxville Region has the largest output value, however, the Memphis Region employs the largest number of individuals. Mobile homes and wood buildings are important industries for the state. The Knoxville Region has the largest values for output, employment, and wages for these industries. The Memphis Region has the largest values for output and employment for millwork, veneer, plywood, and structural wood industries. For this same industry, employment for both the Nashville and Knoxville Regions is equally divided.

Estimated Total Economic Impacts of Agriculture and Forestry:

The economic impacts of agriculture and forestry include not only the direct impacts from the industry, but also the impacts the industry has on input supplying industries (indirect effects) and also on expenditures by households and other institutions (induced effects). The total economic impacts from agriculture and forestry include direct, indirect, and induced effects. The total industry output, value added, employment, and wages resulting from agriculture and forestry including each of these effects are shown in Table 10. About 68 percent of the total impacts from the sector come from primary and secondary agriculture, while forest products contribute about 32 percent. Of sector related employment, 71 percent is contributed by impacts from primary and secondary agriculture, with 29 being contributed from primary and secondary forest products. Intrastate trade represents values purchased or imported from outside the regions. A more detailed total impact presentation of output, value added, employment, and wages by sub-sector is shown in the Appendix Section 3.

Table 9. Direct Economic Activity in Secondary Forest Products

Sector	TIO ^a (Million \$)	TVA ^b (Million \$)	Employment (Number)	Wages (Million \$)
Paper and Allied Products:				
State ^c	2,795	862	14,083	572
Memphis	1,223	394	4,963	228
Nashville	706	211	4,099	158
Chattanooga	334	99	1,826	73
Knoxville	303	96	1,705	70
Tri-Cities	231	62	1,490	42
Furniture:				
State ^c	2,257	796	20,804	577
Memphis	266	83	2,205	58
Nashville	401	136	3,012	92
Chattanooga	733	262	6,538	192
Knoxville	769	282	8,073	212
Tri-Cities	89	32	976	23
Other Wood Products:				
State ^c	785	271	7,031	164
Memphis	200	81	2,266	54
Nashville	170	70	1,822	40
Chattanooga	61	22	646	13
Knoxville	284	77	1,845	47
Tri-Cities	70	19	452	10
Mobile Homes and Wood Buildings:				
State ^c	637	262	5,597	166
Memphis	128	56	1,064	35
Nashville	201	83	1,771	53
Chattanooga	5	2	50	1
Knoxville	302	121	2,710	77
Tri-Cities	0 ^d	0 ^d	2	0 ^d
Millwork, Veneer, Plywood, & Struct. Wood:				
State ^c	464	192	5,579	130
Memphis	168	68	1,960	48
Nashville	114	49	1,494	33
Chattanooga	36	15	400	10
Knoxville	122	52	1,493	35
Tri-Cities	24	9	232	6

^a Total Industry Output – value of production by industry by year.

^b Total Value Added – income to workers paid by employers; self-employed income; interests, rents, royalties, dividends, and profit payments; and excise and sales taxes paid by individuals to businesses.

^c State totals may not add due to rounding.

^d Values of 0 are nonzero values that are less than 1.

Table 10. Estimated Total Economic Impacts from Agriculture and Forestry

Sector	TIO ^a (Million \$)	TVA ^b (Million \$)	Employment (Number)	Wages (Million \$)
Agriculture & Forestry:				
State	56,848	23,828	609,735	13,865
Memphis	18,025	7,437	160,058	4,237
Nashville	15,296	6,326	184,296	3,555
Chattanooga	9,103	3,707	85,356	2,235
Knoxville	8,525	3,612	104,804	2,195
Tri-Cities	2,872	1,106	40,955	681
Intrastate Trade	3,027	1,640	34,266	962
Primary & Secondary Agriculture:				
State	38,639	15,731	435,809	8,996
Memphis	11,699	4,638	107,181	2,593
Nashville	11,361	4,590	145,037	2,515
Chattanooga	6,456	2,561	60,965	1,522
Knoxville	5,206	2,136	68,157	1,277
Tri-Cities	1,769	667	30,097	412
Intrastate Trade	2,148	1,139	24,372	677
Primary Agriculture:				
State	5,356	2,256	154,654	1,036
Memphis	1,652	683	32,446	311
Nashville	2,268	933	68,247	427
Chattanooga	382	125	9,867	59
Knoxville	528	264	24,145	119
Tri-Cities	298	131	16,261	55
Intrastate Trade	228	120	3,688	65
Secondary Agriculture:				
State	33,283	13,475	281,155	7,960
Memphis	10,047	3,955	74,734	2,281
Nashville	9,093	3,658	76,791	2,089
Chattanooga	6,074	2,436	51,097	1,462
Knoxville	4,678	1,872	44,012	1,158
Tri-Cities	1,470	535	13,837	357
Intrastate Trade	1,921	1,019	20,684	613
Primary & Secondary Forestry:				
State	18,208	8,097	173,926	4,869
Memphis	6,327	2,799	52,877	1,644
Nashville	3,935	1,736	39,258	1,040
Chattanooga	2,647	1,146	24,392	714
Knoxville	3,319	1,476	36,648	918
Tri-Cities	1,103	439	10,857	269
Intrastate Trade	877	501	9,894	284
Primary Forestry:				
State	6,303	2,826	57,716	1,622
Memphis	2,985	1,326	23,818	771
Nashville	1,245	543	13,225	301
Chattanooga	812	362	6,216	207
Knoxville	471	219	6,063	122

Table 10. (Continued)

Sector	TIO ^a (Million \$)	TVA ^b (Million \$)	Employment (Number)	Wages (Million \$)
Tri-Cities	478	199	4,674	121
Intrastate Trade	312	177	3,720	100
Secondary Forestry:				
State	11,905	5,272	116,210	3,247
Memphis	3,342	1,472	29,059	872
Nashville	2,690	1,193	26,034	739
Chattanooga	1,835	785	18,175	506
Knoxville	2,848	1,257	30,585	795
Tri-Cities	624	241	6,184	148
Intrastate Trade	566	324	6,173	187

^a Total Industry Output – value of production by industry by year.

^b Total Value Added – income to workers paid by employers; self-employed income; interests, rents, royalties, dividends, and profit payments; and excise and sales taxes paid by individuals to businesses.

Primary Agriculture Products Total Impacts:

Figures 24 through 28 show the estimated direct, indirect, and induced effects for the cattle, poultry and eggs, hay and pasture, oil-bearing crops, greenhouse and nursery products, dairy farm products, cotton, tobacco, and feed grains agricultural sectors. The top ten indirect and induced sectors impacted are also listed. Using cattle as an example, indirect effects (input supplying industries) explained 33.5% (\$295 million) of the total impact on output. The sectors most impacted in descending order include cattle; wholesale trade; real estate; hay and pasture; motor freight transport and warehousing; feed grains; maintenance and repair other facilities; railroads and related services; agriculture, forestry, fishery services; and federal electric utilities. Following along this same line, induced effects (expenditures by households and other institutions) explained 18% (157 million) of the total impact on output. Again in descending order the sectors most impacted include owner-occupied dwellings; wholesale trade; doctors and dentists; real estate; state and local government non-education; state and local government education; eating and drinking; hospitals; new industrial and commercial buildings; and banking.

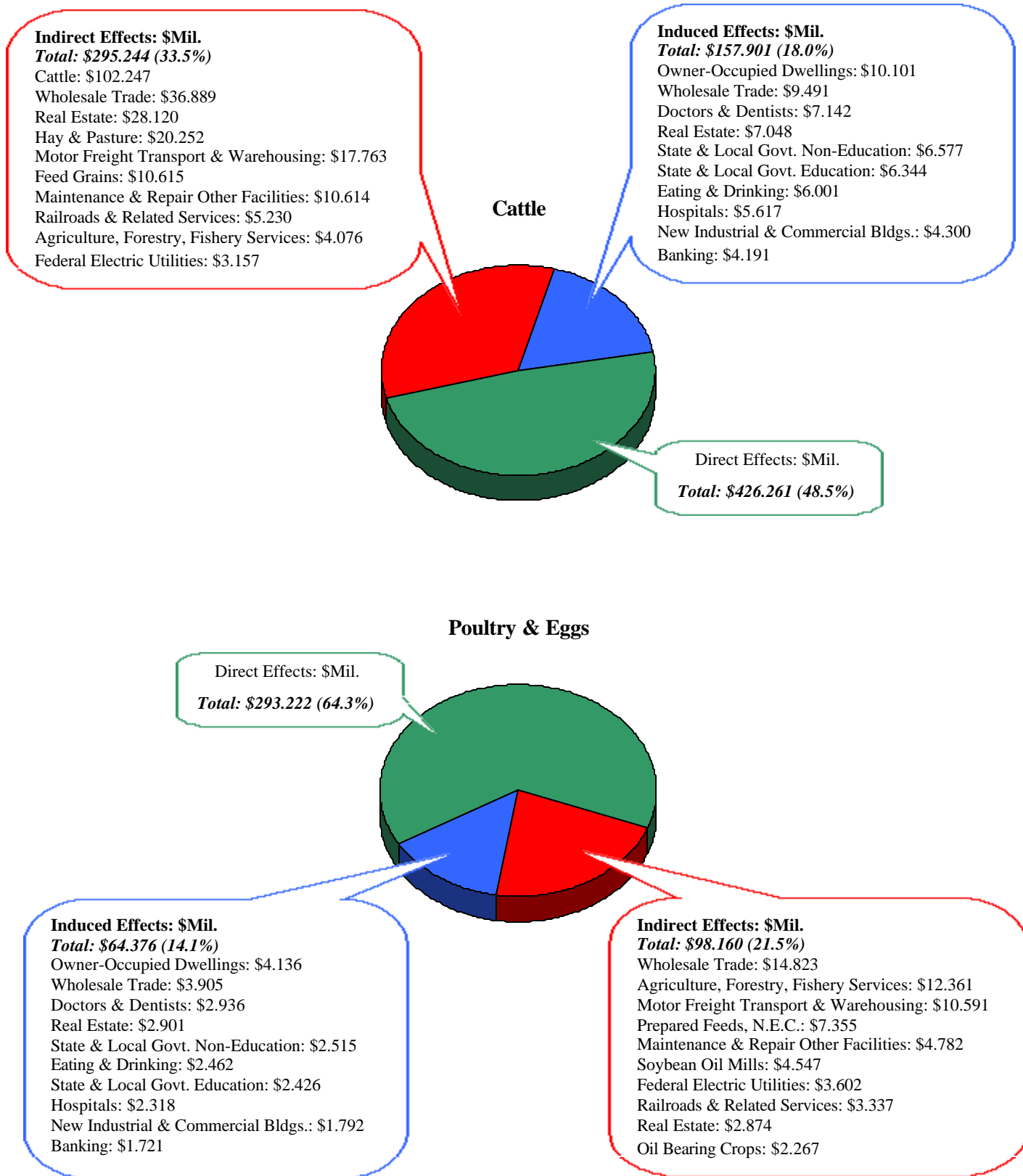


Figure 24. Estimated Direct, Indirect, and Induced Impacts for Cattle and Poultry & Eggs.

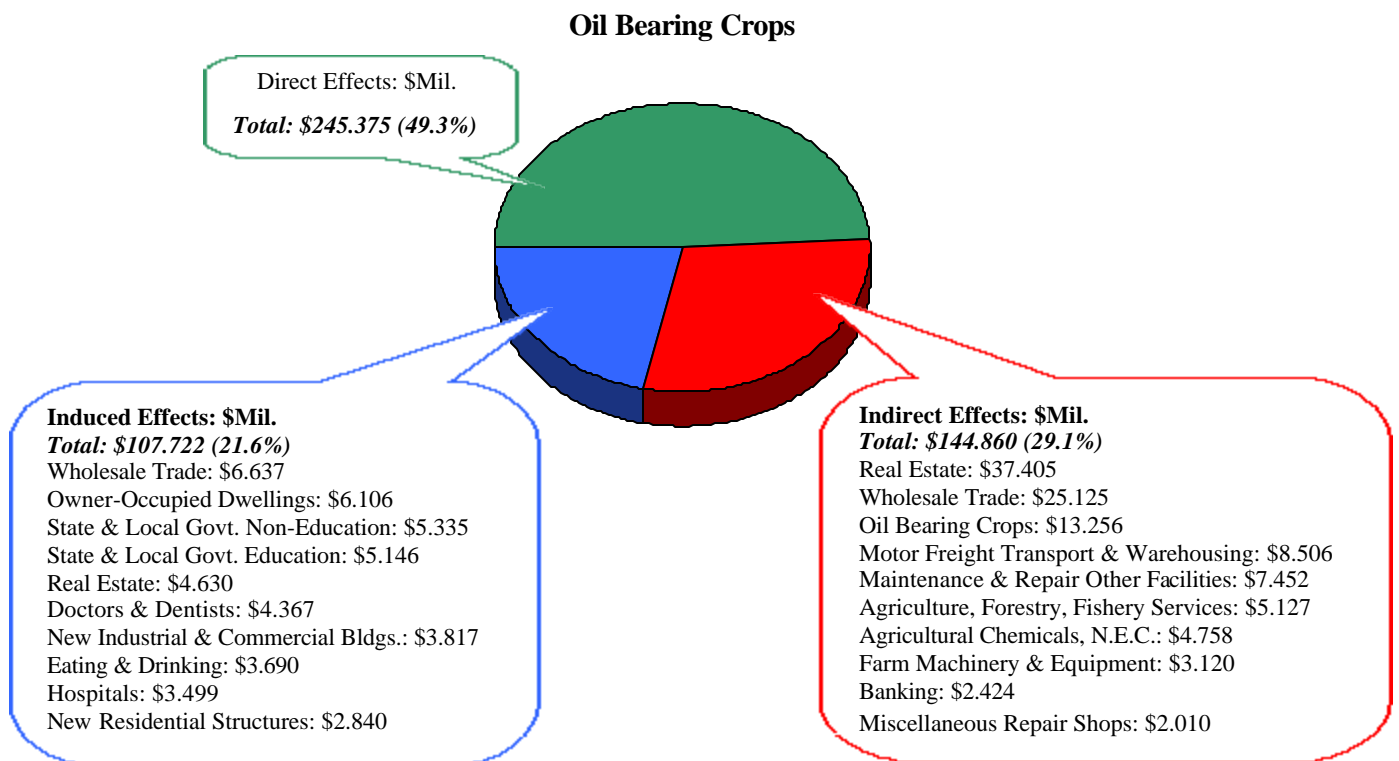
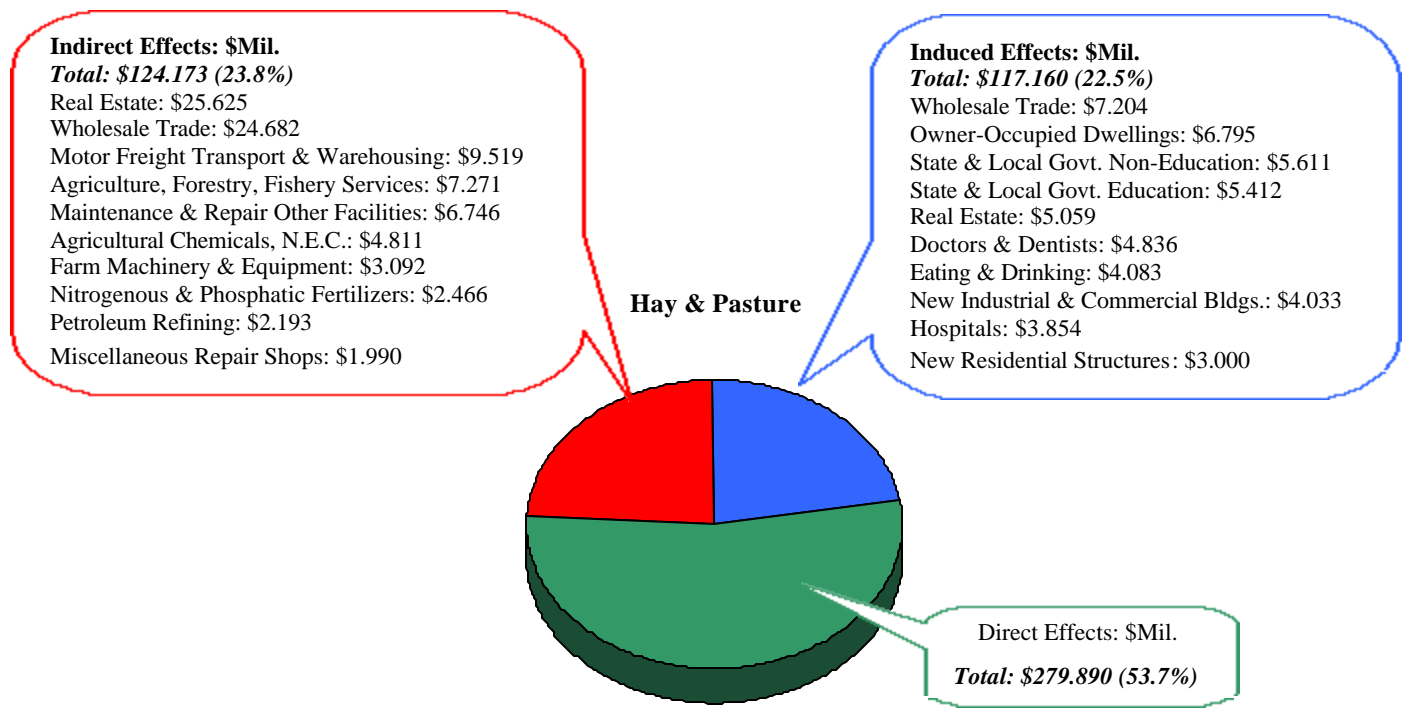


Figure 25. Estimated Direct, Indirect, and Induced Impacts for Hay & Pasture and Oil Bearing Crops.

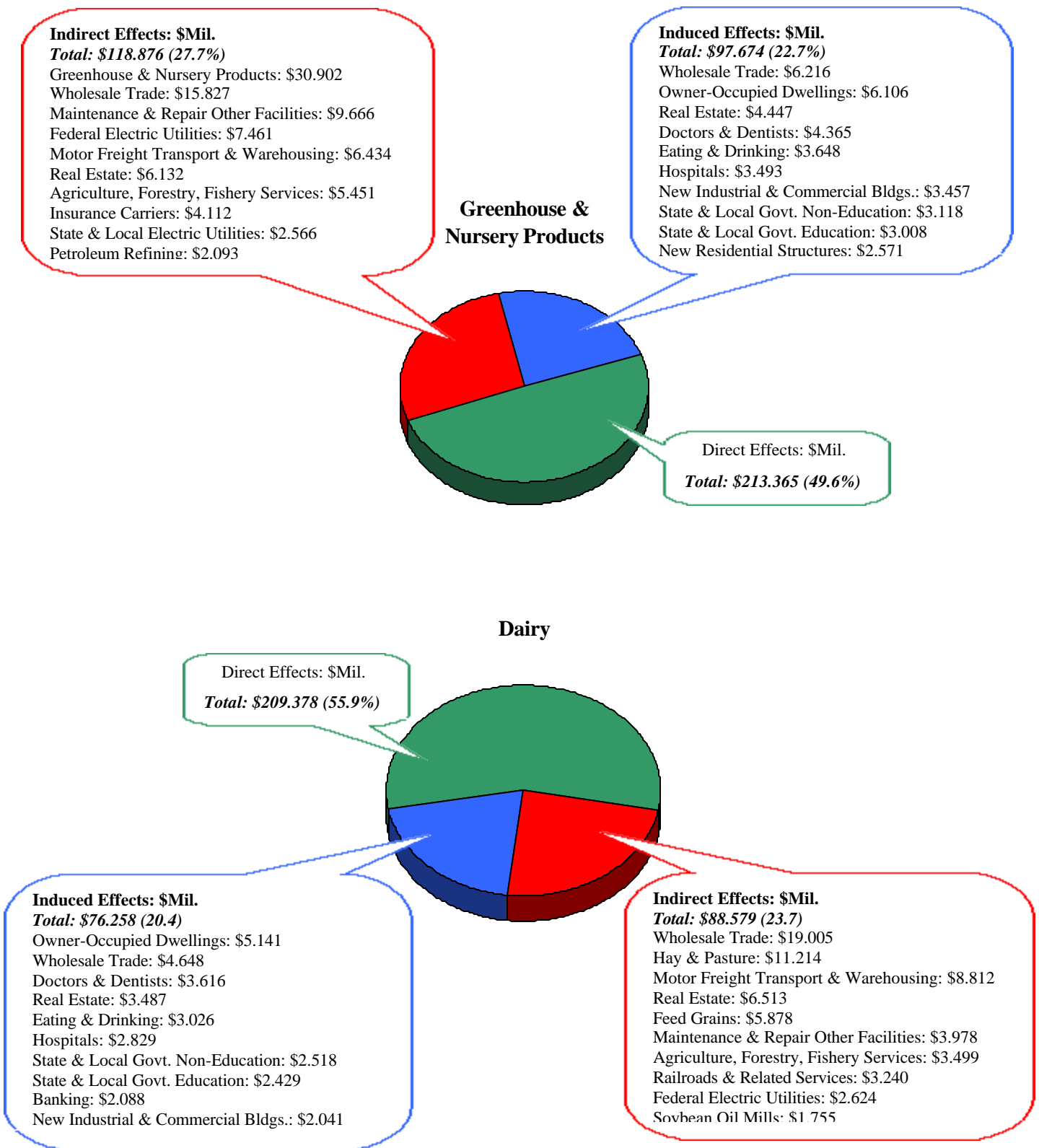


Figure 26. Estimated Direct, Indirect, and Induced Impacts for Greenhouse & Nursery Products and Dairy.

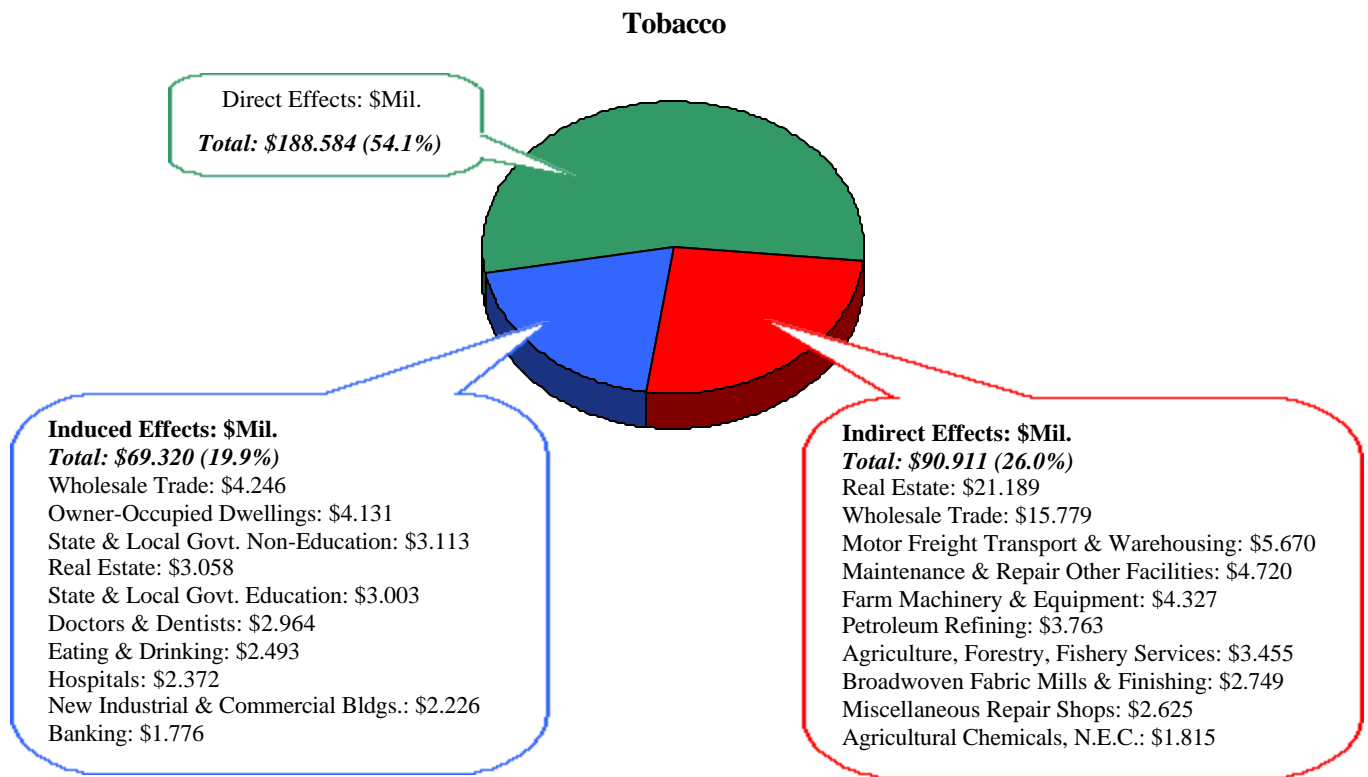
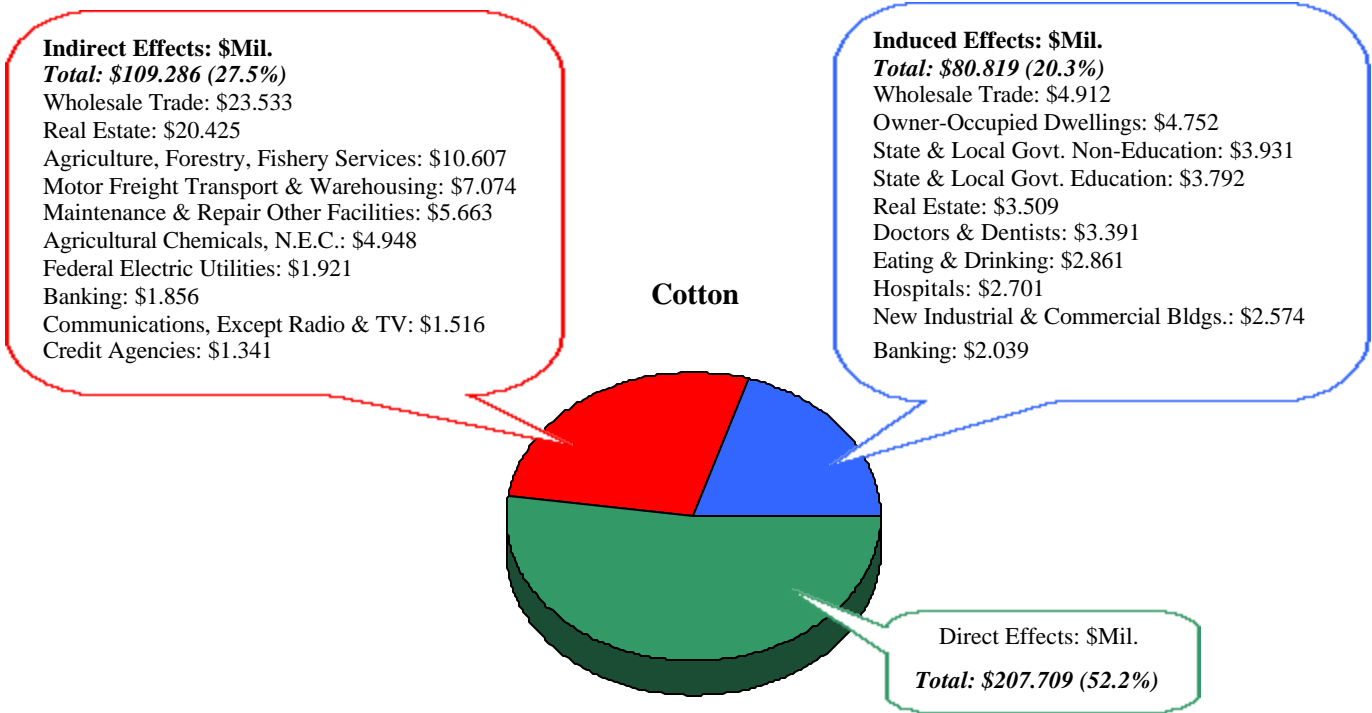


Figure 27. Estimated Direct, Indirect, and Induced Impacts for Cotton and Tobacco.

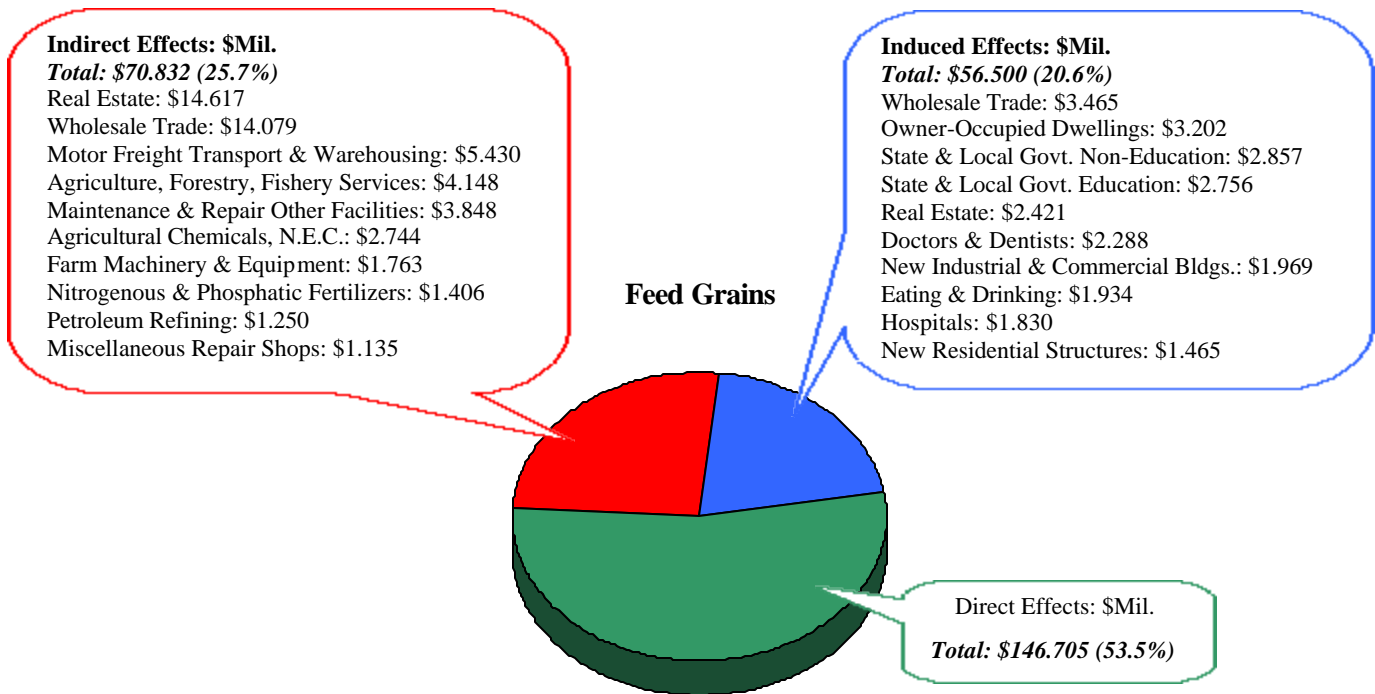


Figure 28. Estimated Direct, Indirect, and Induced Impacts for Feed Grains.

Secondary Agriculture Products Total Impacts:

Table 11 shows the estimated total economic impacts from secondary agricultural products. Food and kindred products contributes the greatest total economic impact values for all categories (output, value added, employment, and wages). The Memphis Region, followed by the Nashville Region, has the largest values for each of the categories analyzed for this sector. Both combined regions account for 56-59% of the total values for the state. The Nashville Region has the largest output, value added, employment, and wage values for apparel followed by the Knoxville Region. The Chattanooga region has the largest values for the value categories analyzed for textiles. For both the agricultural machinery and agricultural chemicals sectors, the Memphis Region has the largest output values. Likewise, the Nashville Region has the largest output values for both the tobacco products and leather goods sectors.

Table 11. Estimated Total Economic Impacts from Secondary Agricultural Products

Sector	TIO ^a (Million \$)	TVA ^b (Million \$)	Employment (Number)	Wages (Million \$)
Food & Kindred Products:				
State	16,877	6,572	122,182	3,729
Memphis	5,817	2,236	38,643	1,277
Nashville	4,199	1,589	29,959	871
Chattanooga	3,541	1,420	25,730	796
Knoxville	2,251	817	17,207	483
Tri-Cities	404	126	2,689	80
Intrastate Trade	665	384	7,954	222
Apparel:				
State	6,352	2,733	74,774	1,775
Memphis	1,222	495	14,833	328
Nashville	2,015	864	24,620	567
Chattanooga	662	274	7,863	182
Knoxville	1,645	740	18,625	468
Tri-Cities	285	111	3,698	76
Intrastate Trade	523	249	5,135	154
Textiles:				
State	5,409	2,175	49,688	1,423
Memphis	752	261	6,137	180
Nashville	937	376	7,570	227
Chattanooga	1,711	668	15,958	444
Knoxville	724	283	7,605	192
Tri-Cities	654	250	6,314	174
Intrastate Trade	631	337	6,104	206
Agricultural Machinery:				
State	1,799	723	13,263	390
Memphis	1,093	428	7,740	231
Nashville	455	190	3,225	101
Chattanooga	119	50	963	28
Knoxville	4	2	37	1
Tri-Cities	83	29	597	16
Intrastate Trade	45	24	701	13
Tobacco Products:				
State	1,492	631	9,245	292
Memphis	541	237	3,223	107
Nashville	913	378	5,546	176
Chattanooga	0	0	0	0
Knoxville	0	0	0	0
Tri-Cities	6	1	33	1
Intrastate Trade	32	15	443	8
Agricultural Chemicals:				
State	780	369	4,933	190
Memphis	571	275	3,352	144
Nashville	153	67	1,021	33
Chattanooga	12	5	72	2

Table 11. (Continued)

Sector	TIO ^a (Million \$)	TVA ^b (Million \$)	Employment (Number)	Wages (Million \$)
Knoxville	15	7	102	3
Tri-Cities	6	2	37	1
Intrastate Trade	23	13	1,370	7
Leather Goods:				
State	575	272	7,070	160
Memphis	52	23	806	14
Nashville	421	192	4,849	114
Chattanooga	30	19	511	11
Knoxville	39	23	436	12
Tri-Cities	33	15	468	9
Intrastate Trade	0 ^c	0 ^c	0 ^c	0 ^c

^a Total Industry Output – value of production by industry by year.

^b Total Value Added – income to workers paid by employers; self-employed income; interests, rents, royalties, dividends, and profit payments; and excise and sales taxes paid by individuals to businesses.

^c Region Purchase Coefficient (RPC) for the state was less than the average for each region.

Primary Forest Products Total Impacts:

For primary forest products total impacts the pulp, paper and paperboard mills contributes the largest output value compared to other sectors analyzed (see Table 12). The Memphis Region followed by the Chattanooga and Tri-Cities Regions contribute the largest values for the categories analyzed. For the remaining sectors -- sawmills, planing and flooring mills, forest and forestry products, and logging -- the Nashville Region followed by the Memphis Region contribute the largest values for the categories studied except for employment for the forest and forestry products sector where the Knoxville Region is second followed by the Memphis Region. Wages for this same sector were also equally divided between these two regions.

Table 12. Estimated Total Economic Impacts from Primary Forest Products

Sector	TIO ^a (Million \$)	TVA ^b (Million \$)	Employment (Number)	Wages (Million \$)
Pulp, Paper and Paperboard Mills:				
State	3,683	1,677	27,689	996
Memphis	2,277	1,021	16,319	603
Nashville	170	79	1,328	48
Chattanooga	677	305	4,712	184
Knoxville	43	18	354	11
Tri-Cities	306	133	2,426	83
Intrastate Trade	210	121	2,550	67
Sawmills, Planing & Flooring Mills:				
State	1,926	855	21,136	509
Memphis	552	239	5,808	142
Nashville	837	361	8,747	213
Chattanooga	49	19	561	11
Knoxville	309	151	4,002	91
Tri-Cities	110	47	1,231	29
Intrastate Trade	69	38	787	23
Forest and Forestry Products:				
State	433	186	6,525	69
Memphis	87	39	1,091	13
Nashville	124	56	2,123	19
Chattanooga	62	27	751	8
Knoxville	80	34	1,326	13
Tri-Cities	51	14	910	7
Intrastate Trade	29	16	324	9
Logging:				
State	262	108	2,365	49
Memphis	68	28	599	13
Nashville	114	46	1,027	21
Chattanooga	23	10	191	4
Knoxville	40	16	380	7
Tri-Cities	12	4	106	2
Intrastate Trade	5	4	62	2

^a Total Industry Output – value of production by industry by year.

^b Total Value Added – income to workers paid by employers; self-employed income; interests, rents, royalties, dividends, and profit payments; and excise and sales taxes paid by individuals to businesses.

Secondary Forest Products Total Impacts:

Paper and allied products has the largest output value for the state followed by furniture; other wood products; mobile homes and wood buildings; and, finally, millwork, veneer, plywood, and structural wood (see Table 13). For paper and allied products, the Memphis and Nashville Regions combined contribute 68% of the output value for the state. Likewise, for

Table 13. Estimated Total Economic Impacts from Secondary Forest Products

Sector	TIO ^a (Million \$)	TVA ^b (Million \$)	Employment (Number)	Wages (Million \$)
Paper and Allied Products:				
State	4,754	1,996	38,541	1,218
Memphis	2,051	870	14,890	502
Nashville	1,188	491	10,039	316
Chattanooga	504	199	4,051	130
Knoxville	490	207	4,264	132
Tri-Cities	343	125	3,095	79
Intrastate Trade	178	104	2,202	59
Furniture:				
State	4,017	1,815	43,296	1,156
Memphis	452	192	4,553	120
Nashville	684	303	6,641	187
Chattanooga	1,167	512	12,228	333
Knoxville	1,310	597	15,467	391
Tri-Cities	141	61	1,731	39
Intrastate Trade	263	150	2,676	86
Other Wood Products:				
State	1,227	532	12,764	309
Memphis	335	163	3,964	98
Nashville	284	139	3,291	78
Chattanooga	99	44	1,123	25
Knoxville	358	123	2,932	71
Tri-Cities	104	37	944	21
Intrastate Trade	47	26	510	16
Mobile Homes and Wood Buildings:				
State	1,076	517	11,287	310
Memphis	209	104	2,089	62
Nashville	333	160	3,456	96
Chattanooga	8	3	87	2
Knoxville	484	228	5,255	137
Tri-Cities	0 ^c	0 ^c	4	0 ^c
Intrastate Trade	42	22	396	13
Millwork, Veneer, Plywood, & Struct. Wood:				
State	831	412	10,323	253
Memphis	296	145	3,563	91
Nashville	200	101	2,606	61
Chattanooga	58	28	686	17
Knoxville	206	103	2,666	63
Tri-Cities	36	16	411	10
Intrastate Trade	35	19	391	11

^a Total Industry Output – value of production by industry by year.

^b Total Value Added – income to workers paid by employers; self-employed income; interests, rents, royalties, dividends, and profit payments; and excise and sales taxes paid by individuals to businesses.

^c Values of 0 are nonzero values that are less than 1.

employment, both combined regions contribute close to 65% of the total state value for this sector. The furniture industry has the largest total employment impacts for secondary forest products. The Knoxville Region followed by the Chattanooga Region has the largest values. The Knoxville Region followed by the Memphis and Nashville Regions has the largest output values for other wood products. However, for value added, employment, and wages, the Memphis Region followed by the Nashville and Knoxville Regions has the largest values for this manufacturing sector. For mobile homes and wood buildings, the Knoxville Region followed by the Nashville Region has the largest values for all categories. The Memphis Region has the greatest values for output, value added, employment, and wages for millwork, veneer, plywood, and structural wood. Within this manufacturing sector, the Knoxville and Nashville regions, ranked second and third, respectively, in terms of value for the categories analyzed, are very similar.

Summary and Conclusions

The agro-forestry industrial complex contributes \$56.7 billion to the Tennessee economy, accounting for 21 percent of the economic activity conducted within the state and employing 293,000 individuals (Table 14). Outdoor hunting, fishing, and bird watching enthusiasts generate an additional 3.6 billion dollars annually. The agro-forestry industrial complex includes the primary industries typically associated with agriculture and forest operations such as the growing of crops, the breeding and feeding of livestock and the management and logging of trees. Also included in the industrial complex are the input supply industries, the value-added sub-sectors, food and kindred products manufacturing, apparel and textiles, and forestry products manufacturing.

Regionally, the agro-forestry industrial complex is more important to the economies of the Chattanooga and Memphis regions on relative terms than to the other regions of the state. In

Chattanooga, over \$9 billion (30 percent) of the economic activity that occurs in that region is attributed to the agro-forestry industrial complex. In the Memphis region the amount of economic activity is \$18 billion, however, this represents only 24 percent of the total for the region.

Table 14. Regional Importance of Agriculture to that Region's Economy

Location	Total Economic Activity (Million \$)	Estimated Agro-forestry Industrial Complex Contributions to the State's Economy (Million \$)	Proportion (ratio)
State	270,157	56,848	0.21
Memphis	75,565	18,025	0.24
Nashville	103,653	15,296	0.15
Chattanooga	30,623	9,103	0.30
Knoxville	41,490	8,525	0.21
Tri-Cities	17,826	2,872	0.16

Agriculture, a subset of the agro-forestry industrial complex in Tennessee, includes farming and related industries, as well as value-added food and fiber products, processing and manufacturing. Agriculture accounts for 14.2 percent of the state's economy and generates \$38.5 billion in output. About 218,000 Tennesseans, with 114,000 in the production sector, are employed in agriculture.

With more than 42 percent of Tennessee's total land area in farms, primary agriculture, through the sale of raw agricultural products, generates nearly \$2.4 billion in farm cash receipts annually. Tennessee farmers earn more than 63 percent of their cash receipts from cattle and calves, cotton, broilers, tobacco, and dairy sales. The largest generator of cash receipts in 1997 was the sale of cattle and calves (\$0.4 billion), with livestock accounting for \$1 billion in cash receipts.

The output and employment multipliers for primary agricultural and forestry activities range from 1.49 to 2.06 for total industrial output and 1.06 to 2.35 for employment (Table 15). For instance, if the hardwood flooring industry increases total industry output by \$1 million, then

the state's economy will increase by an estimated \$2.06 million overall and for each job created in this same industry an estimated 0.9 additional jobs will be added. Cotton farmers that produce \$1 million in total industry output generate an additional \$0.47 million indirectly through the purchase of inputs and \$0.84 million in total economic activity within the state.

Through the use of IMPLAN, information on the interrelationships in a regional economy and the impacts of changes on that economy can be evaluated and analyzed. Not only can the model assist in the evaluation of growth projections and the magnitude of impacts for different levels of economic activity, but it also can serve as a useful planning tool for policy-makers in evaluating potential impacts of their decisions concerning agriculture and forestry industries for the state. In this analysis, a baseline for 1997 was developed tying economic activity and information from the U.S. 1997 agricultural census together. The state was divided into five trade regions. Look for these five regions in future analyses as individual sectors are examined and the impacts of additions to the state's agro-forestry industrial complex are evaluated using the 1997 analysis as a guide.

Table 15. Primary Agricultural and Forestry Output and Employment Multipliers

IMPLAN Sector	TIO ^a		Employment	
	Indirect	Indirect & Induced	Indirect	Indirect & Induced
Dairy Farm Products	1.41	1.77	1.66	1.98
Poultry and Eggs	1.33	1.54	1.58	1.98
Ranch Fed Cattle	1.64	2.00	1.47	1.61
Range Fed Cattle	1.52	1.84	1.40	1.53
Cattle Feedlots	1.41	1.71	1.91	2.35
Sheep, Lambs and Goats	1.39	1.70	1.06	1.08
Hogs, Pigs and Swine	1.59	1.87	1.55	1.72
Other Meat Animal Products	1.43	1.71	1.28	1.39
Miscellaneous Livestock	1.41	1.74	1.06	1.09
Cotton	1.47	1.84	1.67	2.23
Food Grains	1.48	1.87	1.13	1.27
Feed Grains	1.42	1.78	1.22	1.43
Hay and Pasture	1.38	1.78	1.04	1.09
Grass Seeds	1.48	1.85	1.03	1.06
Tobacco	1.42	1.77	1.08	1.16
Fruits	1.46	1.90	1.15	1.29
Vegetables	1.40	1.87	1.23	1.48
Miscellaneous Crops	1.33	1.68	1.08	1.14
Oil Bearing Crops	1.54	1.95	1.25	1.47
Greenhouse & Nursery Products	1.54	1.99	1.33	1.59
Agricultural, Forestry, Fishery Services	1.27	1.88	1.11	1.37
Landscape & Horticultural Services	1.23	1.95	1.10	1.33
Logging Camps & Logging Contractors	1.19	1.49	1.34	1.96
Sawmills & Planing Mills, General	1.32	1.65	1.50	2.20
Hardwood Dimension & Flooring Mills	1.47	2.06	1.31	1.90
Special Product Sawmills, N.E.C	1.17	1.65	1.10	1.50

^a Total Industry Output – value of production by industry by year.

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Appendix Section 1: IMPLAN Model Data Adjustment Procedures

IMPLAN Model Data Adjustment Procedures

Market values from the *1997 Census of Agriculture* for both the crops and livestock product sectors for each county were collected. For counties where data was withheld to avoid disclosing information for individual farms (noted with a “D” in the census), the following procedure was implemented to provide estimates of market values. First, the total market values for the state for the particular agricultural sector were obtained from the census. Next, the individual counties with market value information were summed. The differences, or state overage, in these two figures were obtained. For the “D” counties BEA production values were derived using a production per farm or a production per acre approach based on the counties with known values for that BEA region. Once this information was derived the proportionate county share for the state overage for “D” counties were totaled. If acres and production values were unknown then a market value per farm by BEA region based on the same methodology was used.

For example, for the commodity wheat there were 35 counties that had a “D” for the market value figure. However, for some of the “D” counties in which market value data was not disclosed acreage yields or production values were listed. For “D” counties with acreage yield information an average yield per acre estimate was calculated per BEA region based on known county data for that region. Likewise, for other “D” counties the average production estimate per farm for each BEA region was derived based on known county information. These values were used to derive unknown production estimates for individual farms in each county. Once each counties proportionate share was derived the state’s market value overage for that particular commodity was distributed.

Table A.1 shows the bridge between the *1997 Census of Agriculture* and IMPLAN’s agricultural categories. Adjustments were required for some census agricultural sectors values to

fit the IMPLAN model. For instance, the census value for cattle & calves needed distribution among ranch fed cattle, range fed cattle, and cattle feedlots. The ratio of these individual values from the IMPLAN model for the state was used as a guideline to distribute data for each individual county. For IMPLAN's Sheep, Lambs, & Goats sector the census-recorded data for sheep, lambs, and wool. Goats are included in the Miscellaneous Livestock sector. For IMPLAN's Fruits and Tree Nuts sectors, the census aggregated information for fruits, nuts, and berries. This value was recorded under IMPLAN's Fruits agricultural sector. As a result, a zero value was tabulated for IMPLAN's Tree Nuts sector. Furthermore, the ratio of these individual IMPLAN values for Fruits and Tree Nuts for the state revealed that fruit represented 99.9% of the aggregated fruit & nut category. IMPLAN data was used for the Hay & Pasture and Grass Seeds agricultural sectors. Further model adjustments included employment and all components of value added where appropriate.

Table A.1. Bridge Between IMPLAN and 1997 Census of Agriculture Sectors

IMPLAN Sector	Agricultural Sectors (1997 Census)
1 Dairy Farm Products	Dairy Products
2 Poultry & Eggs	Poultry & Poultry Products (includes eggs)
3 Ranch Fed Cattle	Cattle & Calves (state IMPLAN ratio equals 89%)
4 Range Fed Cattle	Cattle & Calves (4% state ratio)
5 Cattle Feedlots	Cattle & Calves (7% state ratio)
6 Sheep, Lambs & Goats*	Sheep, lambs, & wool
7 Hogs, Pigs, & Swine	Hogs & Pigs
9 Miscellaneous Livestock	Other Livestock & Livestock Products (includes goats)
10 Cotton	Cotton & Cottonseed
11 Food Grains	Wheat, Barley, Oats, Other grains
12 Feed Grains	Corn for grain; Sorghum for grain
13 Hay & Pasture	Used IMPLAN data
14 Grass Seeds	Used IMPLAN data
15 Tobacco	Tobacco
16 Fruits	Fruits, nuts, & berries (fruits represents 99.9% of the aggregated)
17 Tree Nuts	Included in above; zero value
18 Vegetables**	Vegetables, sweet corn, & melons
20 Miscellaneous Crops	Other crops
21 Oil Bearing Crops	Soybeans
23 Greenhouse/Nursery Prod.	Nursery & greenhouse crops

*Goats are included in Miscellaneous Livestock category.

**Includes snap beans and tomatoes.

Table A.2. Modeling Analysis Regions: County Listing

Memphis	Nashville		Chattanooga	Knoxville	Tri-Cities
Benton	Bedford	Macon	Bledsoe	Anderson	Carter
Carroll	Cannon	Marshall	Bradley	Blount	Greene
Chester	Cheatham	Maury	Hamilton	Campbell	Hawkins
Crockett	Clay	Montgomery	McMinn	Claiborne	Johnson
Decatur	Coffee	Moore	Marion	Cocke	Sullivan
Dyer	Cumberland	Overton	Meigs	Grainger	Unicoi
Fayette	Davidson	Perry	Monroe	Hamblen	Washington
Gibson	DeKalb	Pickett	Polk	Hancock	
Hardeman	Dickson	Putnam	Rhea	Jefferson	
Hardin	Fentress	Robertson	Sequatchie	Knox	
Haywood	Franklin	Rutherford		Loudon	
Henderson	Giles	Smith		Morgan	
Henry	Grundy	Stewart		Roane	
Lake	Hickman	Sumner		Scott	
Lauderdale	Houston	Trousdale		Sevier	
McNairy	Humphreys	Vanburen		Union	
Madison	Jackson	Warren			
Obion	Lawrence	Wayne			
Shelby	Lewis	White			
Tipton	Lincoln	Williamson			
Weakley		Wilson			

**Appendix Section 2: Detailed Presentation of Direct Economic Impacts from
Agriculture and Forestry**

Table A.3. State of Tennessee: Direct Impacts from Agriculture and Forestry ^a

Sector	TIO (million \$)	Employment (number)	Wages (million \$)	TVA (million \$)
<i>Agricultural Inputs</i>				
<u>Agricultural Chemicals</u>				
Nitrogenous and Phosphatic Fertilizers	213	275	48	86
Fertilizers, Mixing Only	25	109	3	4
Agricultural Chemicals, N.E.C	202	432	30	88
Total --	440	816	81	178
<u>Agricultural Machinery</u>				
Farm Machinery and Equipment	103	592	18	33
Lawn and Garden Equipment	884	3,393	122	260
Total --	987	3,985	140	293
<i>Agricultural Inputs Total --</i>	1,427	4,801	220	471
<i>Primary Agriculture</i>				
Dairy Farm Products	209	3,374	14	45
Poultry and Eggs	293	2,355	10	31
Ranch Fed Cattle	379	14,161	22	63
Range Fed Cattle	26	931	1	4
Cattle Feedlots	21	214	1	3
Sheep, Lambs and Goats	1	321	0 ^b	0 ^b
Hogs, Pigs and Swine	72	1,814	3	7
Other Meat Animal Products	0 ^b	2	0 ^b	0 ^b
Miscellaneous Livestock	33	4,823	3	7
Cotton	208	2,028	7	39
Food Grains	44	1,762	1	11
Feed Grains	147	3,676	2	35
Hay and Pasture	280	32,429	8	84
Grass Seeds	1	186	0 ^b	0 ^b
Tobacco	189	12,013	18	41
Fruits	6	253	1	2
Tree Nuts	0	0	0	0
Vegetables	49	1,329	6	19
Sugar Crops	0	0	0	0
Miscellaneous Crops	3	256	0 ^b	1
Oil Bearing Crops	245	6,963	8	63
Greenhouse and Nursery Products	213	5,353	24	73
Agricultural, Forestry, Fishery Services	118	4,118	42	69
Landscape and Horticultural Services	361	15,973	146	271
<i>Primary Agriculture Total --</i>	2,899	114,332	318	868
<i>Secondary Agriculture</i>				
<u>Food & Kindred Products</u>				
Meat Packing Plants	516	1,489	55	67

Table A.3. (Continued)

Sector	TIO (million \$)	Employment (number)	Wages (million \$)	TVA (million \$)
Sausages and Other Prepared Meats	525	2,487	68	90
Poultry Processing	411	3,271	83	99
Total --	1,453	7,247	207	256
<u>Dairy Products</u>				
Creamery Butter	26	40	2	3
Cheese, Natural and Processed	60	126	4	7
Condensed and Evaporated Milk	120	316	13	17
Ice Cream and Frozen Desserts	45	148	6	13
Fluid Milk	705	1,875	81	116
Total --	956	2,505	105	155
<u>Canned, Frozen, & Preserved Fruit</u>				
Canned Specialties	13	34	1	4
Canned Fruits and Vegetables	251	1,195	48	76
Dehydrated Food Products	1	5	0 ^b	1
Pickles, Sauces, and Salad Dressings	105	299	10	45
Frozen Fruits, Juices and Vegetables	144	739	23	30
Frozen Specialties	295	1,428	66	118
Total --	810	3,700	149	273
<u>Grain Mill Products</u>				
Flour and Other Grain Mill Products	237	609	37	51
Cereal Preparations	374	751	63	91
Rice Milling	0	0	0	0
Blended and Prepared Flour	89	238	11	13
Wet Corn Milling	73	85	6	18
Dog, Cat, and Other Pet Food	112	299	13	20
Prepared Feeds, N.E.C	340	732	37	52
Total --	1,224	2,714	166	246
<u>Bakery Products</u>				
Bread, Cake, and Related Products	668	4,827	171	254
Cookies and Crackers	773	3,648	149	330
Total --	1,441	8,475	320	583
<u>Sugar & Confectionary Products</u>				
Sugar	0	0	0	0
Confectionary Products	724	3,031	113	250
Chocolate and Cocoa Products	23	89	3	7
Chewing Gum	62	245	8	15
Salted and Roasted Nuts & Seeds	0	0	0	0
Total --	810	3,365	125	272
<u>Fats & Oils</u>				
Cottonseed Oil Mills	83	202	9	10
Soybean Oil Mills	154	106	4	8
Vegetable Oil Mills, N.E.C	0	0	0	0

Table A.3. (Continued)

Sector	TIO (million \$)	Employment (number)	Wages (million \$)	TVA (million \$)
Animal and Marine Fats and Oils	9	32	1	3
Shortening and Cooking Oils	394	662	44	97
Total --	641	1,002	57	118
<u>Beverages</u>				
Malt Beverages	258	708	32	99
Malt	0	0	0	0
Wines, Brandy, and Brandy Spirits	13	73	1	3
Distilled Liquor, Except Brandy	123	109	6	91
Bottled and Canned Soft Drinks & Water	1,136	3,397	132	222
Flavoring Extracts and Syrups, N.E.C.	10	48	3	6
Total --	1,540	4,335	174	421
<u>Miscellaneous Food Preparations</u>				
Canned and Cured Sea Foods	0	0	0	0
Prepared Fresh Or Frozen Fish Or Seafood	0	0	0	0
Roasted Coffee	121	203	6	24
Potato Chips & Similar Snacks	552	1,800	82	197
Manufactured Ice	4	79	2	2
Macaroni and Spaghetti	13	81	3	3
Food Preparations, N.E.C.	77	411	11	20
Total --	767	2,574	103	246
Total --	9,641	35,917	1,407	2,570
<u>Tobacco</u>				
Cigarettes	0	0	0	0
Cigars	0	0	0	0
Chewing and Smoking Tobacco	645	973	79	266
Tobacco Stemming and Redrying	111	217	5	9
Total --	756	1,190	84	275
<u>Textiles</u>				
<u>Broadwoven Fabric Mills and Finishing</u>	375	3,231	90	111
<u>Narrow Fabric Mills</u>	17	247	7	8
<u>Knitting Mills</u>				
Women's Hosiery, Except Socks	63	895	19	24
Hosiery, N.E.C.	242	2,672	65	79
Knit Outerwear Mills	25	243	3	4
Knit Underwear Mills	21	413	10	12
Knit Fabric Mills	490	2,692	82	98
Knitting Mills, N.E.C.	7	83	1	2
Total --	846	6,998	180	219
<u>Yarn/Thread Mills</u>				
Yarn Mills and Finishing Of Textiles, N.E.C.	598	4,210	134	182

Table A.3. (Continued)

Sector	TIO (million \$)	Employment (number)	Wages (million \$)	TVA (million \$)
Thread Mills	13	83	3	5
Total --	611	4,293	137	188
<u>Carpets and Rugs</u>	220	1,259	33	49
<u>Miscellaneous Textile Goods</u>				
Coated Fabrics, Not Rubberized	125	653	23	26
Tire Cord and Fabric	3	2	0 ^b	2
Nonwoven Fabrics	209	677	40	76
Cordage and Twine	45	356	12	14
Textile Goods, N.E.C	138	1,087	31	25
Total --	520	2,775	107	142
Total --	2,591	18,803	552	717
<u>Apparel</u>				
<u>Apparel Made From Purchased Materials</u>	2,708	33,143	687	865
<u>Misc. Fabricated Textile Products</u>				
Curtains and Draperies	13	267	5	5
Housefurnishings, N.E.C	72	668	15	28
Textile Bags	37	403	13	19
Canvas Products	36	468	14	21
Pleating and Stitching	13	234	5	11
Automotive and Apparel Trimmings	235	2,034	59	73
Schiffi Machine Embroideries	0	0	0	0
Fabricated Textile Products, N.E.C.	300	1,951	66	136
Total --	707	6,025	178	294
Total --	3,415	39,168	866	1,159
<u>Leather</u>				
<u>Leather Tanning and Finishing</u>	53	257	5	8
<u>Footwear Cut Stock</u>	17	138	3	6
<u>Footwear, Except Rubber</u>				
House Slippers	0 ^b	1	0 ^b	0 ^b
Shoes, Except Rubber	174	2,601	50	75
Total --	174	2,602	50	75
<u>Leather Gloves and Mittens</u>	6	139	2	3
<u>Luggage</u>	59	535	16	35
<u>Handbags & Other Personal Leather Goods</u>				
Women's Handbags and Purses	1	12	0 ^b	0 ^b

Table A.3. (Continued)

Sector	TIO (million \$)	Employment (number)	Wages (million \$)	TVA (million \$)
Personal Leather Goods	0 ^b	1	0 ^b	0 ^b
Total --	1	13	0 ^b	0 ^b
<u>Leather Goods, N.E.C</u>	22	409	9	16
Total --	332	4,093	86	144
Secondary Agriculture Total --	16,734	99,171	2,995	4,865
Agriculture Total --	21,060	218,305	3,534	6,204
Forest & Forestry Products, Logging				
<u>Forest Products</u>	73	2,271	2	24
<u>Forestry Products</u>	177	1,121	5	54
<u>Logging Camps and Logging Contractors</u>	176	1,205	22	59
Forest & Forestry Products, Logging Total--	425	4,597	29	137
Primary Forestry				
<u>Sawmills & Planing Mills</u>				
Sawmills and Planing Mills, General	630	4,260	93	157
Hardwood Dimension and Flooring Mills	425	6,112	144	216
Special Product Sawmills, N.E.C	5	93	2	3
Total --	1,060	10,465	239	375
<u>Pulp Mills</u>	265	574	38	83
<u>Paper Mills, Except Building Paper</u>	1,342	5,505	346	516
<u>Paperboard Mills</u>	359	849	64	115
Primary Forestry Total --	3,026	17,393	687	1,089
Secondary Forestry				
<u>Millwork, Veneer, Plywood, & Struct. Wood</u>				
Millwork	193	2,215	54	76
Wood Kitchen Cabinets	161	2,376	51	78
Veneer and Plywood	15	123	3	4
Structural Wood Members, N.E.C	95	865	22	34
Total --	464	5,579	130	192
<u>Wood Containers</u>				
Wood Containers	28	397	8	12
Wood Pallets and Skids	94	1,566	27	39
Total --	122	1,963	35	51
<u>Wood Buildings & Mobile Homes</u>				
Mobile Homes	545	4,765	143	229

Table A.3. (Continued)

Sector	TIO (million \$)	Employment (number)	Wages (million \$)	TVA (million \$)
Prefabricated Wood Buildings	92	832	23	33
Total --	637	5,597	166	262
<u>Miscellaneous Wood Products</u>				
Wood Preserving	65	243	6	12
Reconstituted Wood Products	48	222	7	17
Wood Products, N.E.C	140	1,929	40	63
Gum and Wood Chemicals	32	78	3	15
Total --	284	2,472	56	107
<u>Household Furniture</u>				
Wood Household Furniture	384	4,528	109	152
Upholstered Household Furniture	909	9,600	252	330
Mattresses and Bedspings	128	1,142	33	45
Wood TV and Radio Cabinets	97	906	27	34
Household Furniture, N.E.C	50	722	19	23
Total --	1,567	16,899	441	584
<u>Wood Office Furniture</u>	12	141	5	6
<u>Public Building Furniture</u>	678	3,764	131	206
<u>Wood Partitions and Fixtures</u>	61	817	24	30
<u>Miscellaneous</u>				
Blinds, Shades, and Drapery Hardware	29	286	8	12
Furniture and Fixtures, N.E.C	289	1,493	41	70
Total --	318	1,779	49	83
<u>Paperboard Containers and Boxes</u>	1,175	6,584	278	343
<u>Converted Paper & Paperboard Products</u>				
Paper Coated & Laminated Packaging	280	1,288	65	100
Paper Coated & Laminated N.E.C.	50	285	10	16
Bags, Paper	110	644	24	36
Die-cut Paper and Board	13	95	3	5
Sanitary Paper Products	475	887	48	141
Envelopes	82	619	23	27
Stationery Products	67	314	12	23
Converted Paper Products, N.E.C	544	3,367	109	172
Total --	1,620	7,499	294	519
Secondary Forestry Total --	6,938	53,094	1,607	2,384
Forestry Total --	10,390	75,084	2,323	3,610
Agriculture & Forestry Total --	31,450	293,388	5,857	9,814

^a Totals may not add due to rounding.

^b Values of zero are nonzero values less than 1.

Table A.4. Memphis Region: Direct Impacts from Agriculture and Forestry ^a

Sector	TIO (million \$)	Employment (number)	Wages (million \$)	TVA (million \$)
<i>Agricultural Inputs</i>				
<i>Agricultural Chemicals</i>				
Nitrogenous and Phosphatic Fertilizers	213	275	48	86
Fertilizers, Mixing Only	2	10	0 ^b	0 ^b
Agricultural Chemicals, N.E.C	119	239	18	54
Total --	334	524	66	140
<i>Agricultural Machinery</i>				
Farm Machinery and Equipment	15	92	2	4
Lawn and Garden Equipment	572	2,230	76	163
Total --	586	2,322	78	167
<i>Agricultural Inputs Total --</i>	920	2,846	145	307
<i>Primary Agriculture</i>				
Dairy Farm Products	10	99	0 ^b	1
Poultry and Eggs	6	59	0 ^b	0 ^b
Ranch Fed Cattle	55	1,243	2	5
Range Fed Cattle	4	89	0 ^b	0 ^b
Cattle Feedlots	3	35	0 ^b	0 ^b
Sheep, Lambs and Goats	0 ^b	28	0 ^b	0 ^b
Hogs, Pigs and Swine	47	780	1	4
Other Meat Animal Products	0	0	0	0
Miscellaneous Livestock	5	489	0 ^b	1
Cotton	205	1,965	7	38
Food Grains	30	999	0 ^b	5
Feed Grains	101	1,889	1	18
Hay and Pasture	34	2,583	1	6
Grass Seeds	0	0	0	0
Tobacco	3	65	0 ^b	0 ^b
Fruits	1	31	0 ^b	0 ^b
Tree Nuts	0	0	0	0
Vegetables	7	154	0 ^b	1
Sugar Crops	0	0	0	0
Miscellaneous Crops	0 ^b	34	0 ^b	0 ^b
Oil Bearing Crops	201	4,901	5	43
Greenhouse and Nursery Products	23	429	2	7
Agricultural, Forestry, Fishery Services	50	1,649	18	30
Landscape and Horticultural Services	109	4,510	46	82
<i>Primary Agricultural Total --</i>	893	22,031	86	242
<i>Secondary Agriculture</i>				
<i>Food & Kindred Products</i>				

Table A.4. (Continued)

Sector	TIO	Employment	Wages	TVA
	(million \$)	(number)	(million \$)	(million \$)
Meat Packing Plants	190	528	25	31
Sausages and Other Prepared Meats	72	331	11	14
Poultry Processing	2	14	1	1
Total --	265	874	37	46
<u>Dairy Products</u>				
Creamery Butter	0	0	0	0
Cheese, Natural and Processed	49	104	3	6
Condensed and Evaporated Milk	35	92	4	5
Ice Cream and Frozen Desserts	31	104	4	9
Fluid Milk	116	305	14	20
Total --	232	605	25	40
<u>Canned, Frozen, & Preserved Fruit</u>				
Canned Specialties	12	30	1	3
Canned Fruits and Vegetables	32	152	6	10
Dehydrated Food Products	1	5	0 ^b	1
Pickles, Sauces, and Salad Dressings	5	15	0 ^b	2
Frozen Fruits, Juices and Vegetables	144	739	23	30
Frozen Specialties	290	1,398	64	116
Total --	483	2,340	96	162
<u>Grain Mill Products</u>				
Flour and Other Grain Mill Products	3	7	1	1
Cereal Preparations	327	648	57	83
Rice Milling	0	0	0	0
Blended and Prepared Flour	40	108	5	6
Wet Corn Milling	0	0	0	0
Dog, Cat, and Other Pet Food	38	101	5	7
Prepared Feeds, N.E.C	160	341	19	26
Total --	568	1,205	86	123
<u>Bakery Products</u>				
Bread, Cake, and Related Products	145	989	40	60
Cookies and Crackers	0 ^b	1	0 ^b	0 ^b
Total --	146	990	40	60
<u>Sugar & Confectionary Products</u>				
Sugar	0	0	0	0
Confectionery Products	75	324	11	25
Chocolate and Cocoa Products	0	0	0	0
Chewing Gum	62	245	8	15
Salted and Roasted Nuts & Seeds	0	0	0	0
Total --	137	569	20	39

Table A.4. (Continued)

Sector	TIO	Employment	Wages	TVA
	(million \$)	(number)	(million \$)	(million \$)
<u>Fats & Oils</u>				
Cottonseed Oil Mills	83	202	9	10
Soybean Oil Mills	101	70	2	5
Vegetable Oil Mills, N.E.C	0	0	0	0
Animal and Marine Fats and Oils	8	26	1	2
Shortening and Cooking Oils	392	659	44	96
Total --	584	957	55	114
<u>Beverages</u>				
Malt Beverages	244	658	31	95
Malt	0	0	0	0
Wines, Brandy, and Brandy Spirits	0	0	0	0
Distilled Liquor, Except Brandy	0	0	0	0
Bottled and Canned Soft Drinks & Water	281	832	34	57
Flavoring Extracts and Syrups, N.E.C.	0	0	0	0
Total --	525	1,490	65	152
<u>Miscellaneous Food Preparations</u>				
Canned and Cured Sea Foods	0	0	0	0
Prepared Fresh Or Frozen Fish Or Seafood	0	0	0	0
Roasted Coffee	0	0	0	0
Potato Chips & Similar Snacks	321	1,018	49	119
Manufactured Ice	2	38	1	1
Macaroni and Spaghetti	13	81	3	3
Food Preparations, N.E.C	17	94	2	4
Total --	354	1,231	55	127
Total --	3,293	10,260	478	861
<u>Tobacco</u>				
Cigarettes	0	0	0	0
Cigars	0	0	0	0
Chewing and Smoking Tobacco	242	321	33	109
Tobacco Stemming and Redrying	41	81	2	3
Total --	284	402	35	112
<u>Textiles</u>				
<u>Broadwoven Fabric Mills and Finishing</u>	17	152	4	5
<u>Narrow Fabric Mills</u>	0	0	0	0
<u>Knitting Mills</u>				
Women's Hosiery, Except Socks	0	0	0	0
Hosiery, N.E.C	0	0	0	0
Knit Outerwear Mills	2	21	0 ^b	0 ^b

Table A.4. (Continued)

Sector	TIO	Employment	Wages	TVA
	(million \$)	(number)	(million \$)	(million \$)
Knit Underwear Mills	0 ^b	3	0 ^b	0 ^b
Knit Fabric Mills	292	1,578	52	63
Knitting Mills, N.E.C.	0 ^b	4	0 ^b	0 ^b
Total --	295	1,606	52	63
<u>Yarn/Thread Mills</u>				
Yarn Mills and Finishing Of Textiles, N.E.C.	41	286	9	13
Thread Mills	0	0	0	0
Total --	41	286	9	13
<u>Carpets and Rugs</u>	1	4	0 ^b	0 ^b
<u>Miscellaneous Textile Goods</u>				
Coated Fabrics, Not Rubberized	1	6	0 ^b	0 ^b
Tire Cord and Fabric	0	0	0	0
Nonwoven Fabrics	0	0	0	0
Cordage and Twine	7	49	2	2
Textile Goods, N.E.C.	42	310	11	9
Total --	50	365	13	12
Total --	403	2,412	79	92
<i>Apparel</i>				
<u>Apparel Made From Purchased Materials</u>	586	7,377	140	177
<u>Misc. Fabricated Textile Products</u>				
Curtains and Draperies	8	185	3	3
Housefurnishings, N.E.C.	9	93	2	3
Textile Bags	11	142	3	5
Canvas Products	1	7	0 ^b	0 ^b
Pleating and Stitching	0 ^b	1	0 ^b	0 ^b
Automotive and Apparel Trimmings	56	513	12	15
Schiffi Machine Embroideries	0	0	0	0
Fabricated Textile Products, N.E.C.	26	219	5	9
Total --	111	1,161	25	36
Total --	697	8,538	165	212
<i>Leather</i>				
<u>Leather Tanning and Finishing</u>	1	3	0 ^b	0 ^b
<u>Footwear Cut Stock</u>	1	7	0 ^b	0 ^b
<u>Footwear, Except Rubber</u>				
House Slippers	0	0	0	0
Shoes, Except Rubber	29	516	7	10

Table A.4. (Continued)

Sector	TIO (million \$)	Employment (number)	Wages (million \$)	TVA (million \$)
Total --	29	516	7	10
<u>Leather Gloves and Mittens</u>	0	0	0	0
<u>Luggage</u>	2	21	0 ^b	1
<u>Handbags & Other Personal Leather Goods</u>				
Women's Handbags and Purses	0	0	0	0
Personal Leather Goods	0	0	0	0
Total --	0	0	0	0
<u>Leather Goods, N.E.C</u>	1	23	0 ^b	1
Total --	34	570	8	13
Secondary Agriculture Total --				
	4,711	22,182	764	1,291
Agriculture Total --				
	6,524	47,059	995	1,840
Forest & Forestry Products, Logging				
<u>Forest Products</u>	15	298	0 ^b	3
<u>Forestry Products</u>	36	193	1	13
<u>Logging Camps and Logging Contractors</u>	47	317	6	16
Forest & Forestry Products, Logging Total --	98	807	7	32
Primary Forestry				
<u>Sawmills and Planing Mills</u>				
Sawmills and Planing Mills, General	198	1,365	27	46
Hardwood Dimension and Flooring Mills	112	1,536	39	59
Special Product Sawmills, N.E.C	2	34	1	1
Total --	312	2,935	67	106
<u>Pulp Mills</u>	247	532	36	78
<u>Paper Mills, Except Building Paper</u>	753	3,128	191	286
<u>Paperboard Mills</u>	251	570	48	85
Primary Forestry Total --	1,564	7,165	343	555
Secondary Forestry				
<u>Millwork, Veneer, Plywood, & Struct. Wood</u>				
Millwork	123	1,401	35	49
Wood Kitchen Cabinets	28	408	9	13
Veneer and Plywood	14	122	3	4
Structural Wood Members, N.E.C	3	29	1	1
Total --	168	1,960	48	68

Table A.4. (Continued)

Sector	TIO	Employment	Wages	TVA
	(million \$)	(number)	(million \$)	(million \$)
<u>Wood Containers</u>				
Wood Containers	19	287	5	8
Wood Pallets and Skids	44	718	13	18
Total --	63	1,005	18	26
<u>Wood Buildings & Mobile Homes</u>				
Mobile Homes	127	1,058	35	56
Prefabricated Wood Buildings	1	6	0 ^b	0 ^b
Total --	128	1,064	35	56
<u>Miscellaneous Wood Products</u>				
Wood Preserving	2	8	0 ^b	0 ^b
Reconstituted Wood Products	18	75	3	7
Wood Products, N.E.C	34	429	11	16
Gum and Wood Chemicals	5	14	1	2
Total --	59	526	15	26
<u>Household Furniture</u>				
Wood Household Furniture	25	301	7	10
Upholstered Household Furniture	60	653	16	21
Mattresses and Bedsprings	47	429	12	16
Wood TV and Radio Cabinets	1	7	0 ^b	0 ^b
Household Furniture, N.E.C	0	0	0	0
Total --	133	1,390	35	47
<u>Wood Office Furniture</u>	4	49	2	2
<u>Public Building Furniture</u>	129	766	21	34
<u>Wood Partitions and Fixtures</u>	26	329	11	13
<u>Miscellaneous</u>				
Blinds, Shades, and Drapery Hardware	28	271	8	12
Furniture and Fixtures, N.E.C	24	135	3	5
Total --	52	406	10	16
<u>Paperboard Containers and Boxes</u>	287	1,565	72	89
<u>Converted Paper & Paperboard Products</u>				
Paper Coated & Laminated Packaging	191	867	45	69
Paper Coated & Laminated N.E.C.	0	0	0	0
Bags, Paper	53	298	12	18
Die-cut Paper and Board	1	4	0 ^b	0 ^b
Sanitary Paper Products	469	875	47	140
Envelopes	31	226	9	11

Table A.4. (Continued)

Sector	TIO (million \$)	Employment (number)	Wages (million \$)	TVA (million \$)
Stationery Products	0	0	0	0
Converted Paper Products, N.E.C	192	1,128	42	67
Total --	936	3,398	156	305
<i>Secondary Forestry Total --</i>	1,985	12,457	422	682
<i>Forestry Total --</i>	3,647	20,430	771	1,270
<i>Agriculture & Forestry Total --</i>	10,171	67,488	1,766	3,110

^a Totals may not add due to rounding.

^b Values of zero are nonzero values less than 1.

Table A.5. Nashville Region: Direct Impacts from Agriculture and Forestry ^a

Sector	TIO (million \$)	Employment (number)	Wages (million \$)	TVA (million \$)
<i>Agricultural Inputs</i>				
<i>Agricultural Chemicals</i>				
Nitrogenous and Phosphatic Fertilizers	0	0	0	0
Fertilizers, Mixing Only	21	91	3	3
Agricultural Chemicals, N.E.C	66	152	9	27
Total --	87	243	12	30
<i>Agricultural Machinery</i>				
Farm Machinery and Equipment	12	72	2	3
Lawn and Garden Equipment	260	950	39	83
Total --	271	1,021	41	86
<i>Agricultural Inputs Total --</i>	358	1,265	53	117
<i>Primary Agriculture</i>				
Dairy Farm Products	101	1,452	7	21
Poultry and Eggs	166	1,181	5	15
Ranch Fed Cattle	207	7,295	12	34
Range Fed Cattle	14	509	1	2
Cattle Feedlots	12	105	1	2
Sheep, Lambs and Goats	1	152	0 ^b	0 ^b
Hogs, Pigs and Swine	24	689	1	3
Other Meat Animal Products	0	0	0	0
Miscellaneous Livestock	20	2,615	2	4
Cotton	3	63	0 ^b	2
Food Grains	13	654	0 ^b	5
Feed Grains	41	1,465	1	14
Hay and Pasture	150	16,178	4	44
Grass Seeds	0	0	0	0
Tobacco	110	5,296	9	21
Fruits	2	92	0 ^b	1
Tree Nuts	0	0	0	0
Vegetables	13	545	1	3
Sugar Crops	0	0	0	0
Miscellaneous Crops	2	214	0 ^b	1
Oil Bearing Crops	41	1,789	2	19
Greenhouse and Nursery Products	145	2,916	13	40
Agricultural, Forestry, Fishery Services	50	1,620	17	30
Landscape and Horticultural Services	143	6,381	58	108
<i>Primary Agricultural Total --</i>	1,257	51,210	136	369
<i>Secondary Agriculture</i>				
<i>Food & Kindred Products</i>				
Meat Packing Plants	257	764	22	27
Sausages and Other Prepared Meats	205	981	25	33

Table A.5. (Continued)

Sector	TIO (million \$)	Employment (number)	Wages (million \$)	TVA (million \$)
Poultry Processing	138	1,099	28	33
Total --	600	2,844	75	94
<u>Dairy Products</u>				
Creamery Butter	26	40	2	3
Cheese, Natural and Processed	10	22	1	1
Condensed and Evaporated Milk	0	0	0	0
Ice Cream and Frozen Desserts	14	44	2	4
Fluid Milk	248	648	31	44
Total --	298	754	35	52
<u>Canned, Frozen, & Preserved Fruit</u>				
Canned Specialties	2	4	0 ^b	0 ^b
Canned Fruits and Vegetables	14	68	2	4
Dehydrated Food Products	0	0	0	0
Pickles, Sauces, and Salad Dressings	100	284	10	43
Frozen Fruits, Juices and Vegetables	0	0	0	0
Frozen Specialties	3	17	1	1
Total --	119	372	13	48
<u>Grain Mill Products</u>				
Flour and Other Grain Mill Products	16	40	3	4
Cereal Preparations	1	2	0 ^b	0 ^b
Rice Milling	0	0	0	0
Blended and Prepared Flour	8	22	1	1
Wet Corn Milling	0	0	0	0
Dog, Cat, and Other Pet Food	73	198	8	13
Prepared Feeds, N.E.C	162	352	17	23
Total --	261	614	29	42
<u>Bakery Products</u>				
Bread, Cake, and Related Products	138	1,081	32	47
Cookies and Crackers	182	918	33	73
Total --	320	1,999	65	120
<u>Sugar & Confectionery Products</u>				
Sugar	0	0	0	0
Confectionery Products	271	1,276	35	78
Chocolate and Cocoa Products	0	0	0	0
Chewing Gum	0	0	0	0
Salted and Roasted Nuts & Seeds	0	0	0	0
Total --	271	1,276	35	78
<u>Fats & Oils</u>				
Cottonseed Oil Mills	0	0	0	0
Soybean Oil Mills	0	0	0	0
Vegetable Oil Mills, N.E.C	0	0	0	0

Table A.5. (Continued)

Sector	TIO	Employment	Wages	TVA
	(million \$)	(number)	(million \$)	(million \$)
Animal and Marine Fats and Oils	2	6	0 ^b	0 ^b
Shortening and Cooking Oils	0	0	0	0
Total --	2	6	0	0
<u>Beverages</u>				
Malt Beverages	10	38	1	2
Malt	0	0	0	0
Wines, Brandy, and Brandy Spirits	11	61	1	3
Distilled Liquor, Except Brandy	123	109	6	91
Bottled and Canned Soft Drinks & Water	345	1,021	42	70
Flavoring Extracts and Syrups, N.E.C.	0 ^b	3	0 ^b	0 ^b
Total --	489	1,232	50	166
<u>Miscellaneous Food Preparations</u>				
Canned and Cured Sea Foods	0	0	0	0
Prepared Fresh Or Frozen Fish Or Seafood	0	0	0	0
Roasted Coffee	4	7	0 ^b	1
Potato Chips & Similar Snacks	140	478	19	47
Manufactured Ice	1	21	0 ^b	1
Macaroni and Spaghetti	0	0	0	0
Food Preparations, N.E.C.	14	75	2	4
Total --	159	582	22	52
Total --	2,519	9,680	324	653
<u>Tobacco</u>				
Cigarettes	0	0	0	0
Cigars	0	0	0	0
Chewing and Smoking Tobacco	402	652	46	157
Tobacco Stemming and Redrying	66	130	3	5
Total --	469	782	49	163
<u>Textiles</u>				
<u>Broadwoven Fabric Mills and Finishing</u>	68	593	16	20
<u>Narrow Fabric Mills</u>	2	20	1	1
<u>Knitting Mills</u>				
Women's Hosiery, Except Socks	0	0	0	0
Hosiery, N.E.C.	0 ^b	4	0 ^b	0 ^b
Knit Outerwear Mills	5	43	1	1
Knit Underwear Mills	0 ^b	3	0 ^b	0 ^b
Knit Fabric Mills	25	135	5	5
Knitting Mills, N.E.C.	6	76	1	2
Total --	36	260	7	8
<u>Yarn/Thread Mills</u>				

Table A.5. (Continued)

Sector	TIO	Employment	Wages	TVA
	(million \$)	(number)	(million \$)	(million \$)
Yarn Mills and Finishing Of Textiles, N.E.C.	23	163	5	7
Thread Mills	5	36	1	2
Total --	28	199	6	9
<u>Carpets and Rugs</u>	143	802	22	33
<u>Miscellaneous Textile Goods</u>				
Coated Fabrics, Not Rubberized	40	213	7	8
Tire Cord and Fabric	3	2	0 ^b	2
Nonwoven Fabrics	199	644	38	72
Cordage and Twine	0	0	0	0
Textile Goods, N.E.C.	33	249	8	7
Total --	275	1,108	53	89
Total --	551	2,982	105	160
<i>Apparel</i>				
<u>Apparel Made From Purchased Materials</u>	1,056	12,829	272	342
<u>Misc. Fabricated Textile Products</u>				
Curtains and Draperies	1	23	0 ^b	0 ^b
Housefurnishings, N.E.C.	12	119	2	4
Textile Bags	3	29	1	1
Canvas Products	4	42	2	3
Pleating and Stitching	10	166	4	9
Automotive and Apparel Trimmings	56	508	13	16
Schiffi Machine Embroideries	0	0	0	0
Fabricated Textile Products, N.E.C.	47	435	7	15
Total --	134	1,323	30	49
Total --	1,190	14,153	302	391
<i>Leather</i>				
<u>Leather Tanning and Finishing</u>	50	242	5	7
<u>Footwear Cut Stock</u>	16	131	3	6
<u>Footwear, Except Rubber</u>				
House Slippers	0	0	0	0
Shoes, Except Rubber	128	1,834	38	57
Total --	128	1,834	38	57
<u>Leather Gloves and Mittens</u>	2	41	1	1
<u>Luggage</u>	35	308	10	21
<u>Handbags & Other Personal Leather Goods</u>				

Table A.5. (Continued)

Sector	TIO (million \$)	Employment (number)	Wages (million \$)	TVA (million \$)
Women's Handbags and Purses	0	0	0	0
Personal Leather Goods	0	0	0	0
Total --	0	0	0	0
Leather Goods, N.E.C	4	66	1	3
Total --	234	2,621	58	94
Secondary Agriculture Total --				
	4,962	30,219	837	1,460
Agriculture Total --				
	6,577	82,694	1,026	1,945
Forest & Forestry Products, Logging				
<u>Forest Products</u>	36	1,111	1	13
<u>Forestry Products</u>	34	182	1	13
<u>Logging Camps and Logging Contractors</u>	76	524	9	25
Forest & Forestry Products, Logging Total --	146	1,816	11	50
Primary Forestry				
<u>Sawmills and Planing Mills</u>				
Sawmills and Planing Mills, General	319	2,105	50	84
Hardwood Dimension and Flooring Mills	147	2,172	49	73
Special Product Sawmills, N.E.C	0	0	0	0
Total --	466	4,277	99	157
<u>Pulp Mills</u>	0	0	0	0
<u>Paper Mills, Except Building Paper</u>	91	379	23	34
<u>Paperboard Mills</u>	0	0	0	0
Primary Forestry Total --	556	4,656	122	192
Secondary Forestry				
<u>Millwork, Veneer, Plywood, & Struct. Wood</u>				
Millwork	44	526	12	17
Wood Kitchen Cabinets	60	872	19	29
Veneer and Plywood	0 ^b	1	0 ^b	0 ^b
Structural Wood Members, N.E.C	9	95	2	3
Total --	114	1,494	33	49
<u>Wood Containers</u>				
Wood Containers	6	67	2	3
Wood Pallets and Skids	29	492	8	12
Total --	35	559	10	15
<u>Wood Buildings & Mobile Homes</u>				
Mobile Homes	180	1,596	47	75

Table A.5. (Continued)

Sector	TIO	Employment	Wages	TVA
	(million \$)	(number)	(million \$)	(million \$)
Prefabricated Wood Buildings	21	174	6	8
Total --	201	1,771	53	83
<u>Miscellaneous Wood Products</u>				
Wood Preserving	10	37	1	2
Reconstituted Wood Products	1	5	0 ^b	1
Wood Products, N.E.C	63	871	18	28
Gum and Wood Chemicals	26	64	3	13
Total --	101	976	22	43
<u>Household Furniture</u>				
Wood Household Furniture	76	866	22	31
Upholstered Household Furniture	50	545	13	17
Mattresses and Bedspings	17	150	4	6
Wood TV and Radio Cabinets	3	35	1	1
Household Furniture, N.E.C	2	39	1	1
Total --	148	1,634	41	56
<u>Wood Office Furniture</u>	0 ^b	3	0 ^b	0 ^b
<u>Public Building Furniture</u>	253	1,375	51	80
<u>Wood Partitions and Fixtures</u>	14	172	6	8
<u>Miscellaneous</u>				
Blinds, Shades, and Drapery Hardware	1	7	0 ^b	0 ^b
Furniture and Fixtures, N.E.C	19	108	2	4
Total --	20	115	2	4
<u>Paperboard Containers and Boxes</u>	414	2,356	94	116
<u>Converted Paper & Paperboard Products</u>				
Paper Coated & Laminated Packaging	57	272	12	19
Paper Coated & Laminated N.E.C.	29	156	6	10
Bags, Paper	56	338	11	17
Die-cut Paper and Board	6	46	1	2
Sanitary Paper Products	6	12	1	2
Envelopes	51	390	14	16
Stationery Products	0	0	0	0
Converted Paper Products, N.E.C	88	529	19	30
Total --	292	1,743	64	95
Secondary Forestry Total --	1,592	12,199	376	550
Forestry Total --	2,294	18,671	509	792
Agriculture & Forestry Total --	8,872	101,365	1,535	2,737

^a Totals may not add due to rounding.

^b Values of zero are nonzero values less than 1.

Table A.6. Chattanooga Region: Direct Impacts from Agriculture and Forestry ^a

Sector	TIO (million \$)	Employment (number)	Wages (million \$)	TVA (million \$)
<i>Agricultural Inputs</i>				
<i>Agricultural Chemicals</i>				
Nitrogenous and Phosphatic Fertilizers	0	0	0	0
Fertilizers, Mixing Only	0	0	0	0
Agricultural Chemicals, N.E.C	7	17	1	3
Total --	7	17	1	3
<i>Agricultural Machinery</i>				
Farm Machinery and Equipment	71	397	13	24
Lawn and Garden Equipment	0	0	0	0
Total --	71	397	13	24
<i>Agricultural Inputs Total --</i>	78	413	14	27
<i>Primary Agriculture</i>				
Dairy Farm Products	43	585	2	7
Poultry and Eggs	86	587	2	7
Ranch Fed Cattle	32	995	1	3
Range Fed Cattle	2	58	0 ^b	0 ^b
Cattle Feedlots	2	15	0 ^b	0 ^b
Sheep, Lambs and Goats	0 ^b	17	0 ^b	0 ^b
Hogs, Pigs and Swine	0 ^b	63	0 ^b	0 ^b
Other Meat Animal Products	0	0	0	0
Miscellaneous Livestock	2	253	0 ^b	0 ^b
Cotton	0	0	0	0
Food Grains	1	52	0 ^b	0 ^b
Feed Grains	2	96	0 ^b	1
Hay and Pasture	28	2,679	1	6
Grass Seeds	0	0	0	0
Tobacco	4	224	0 ^b	1
Fruits	2	22	0 ^b	0 ^b
Tree Nuts	0	0	0	0
Vegetables	6	175	1	2
Sugar Crops	0	0	0	0
Miscellaneous Crops	0	0	0	0
Oil Bearing Crops	3	163	0 ^b	1
Greenhouse and Nursery Products	6	154	1	2
Agricultural, Forestry, Fishery Services	4	237	2	2
Landscape and Horticultural Services	26	1,217	11	20
<i>Primary Agriculture Total --</i>	248	7,594	21	52
<i>Secondary Agriculture</i>				
<i>Food & Kindred Products</i>				
Meat Packing Plants	0	0	0	0
Sausages and Other Prepared Meats	6	30	1	1

Table A.6. (Continued)

Sector	TIO	Employment	Wages	TVA
	(million \$)	(number)	(million \$)	(million \$)
Poultry Processing	165	1,299	34	41
Total --	171	1,329	35	42
<u>Dairy Products</u>				
Creamery Butter	0	0	0	0
Cheese, Natural and Processed	0	0	0	0
Condensed and Evaporated Milk	0	0	0	0
Ice Cream and Frozen Desserts	0	0	0	0
Fluid Milk	224	603	24	34
Total --	224	603	24	34
<u>Canned, Frozen, & Preserved Fruit</u>				
Canned Specialties	0	0	0	0
Canned Fruits and Vegetables	1	3	0 ^b	0 ^b
Dehydrated Food Products	0	0	0	0
Pickles, Sauces, and Salad Dressings	0	0	0	0
Frozen Fruits, Juices and Vegetables	0	0	0	0
Frozen Specialties	0	0	0	0
Total --	1	3	0	0
<u>Grain Mill Products</u>				
Flour and Other Grain Mill Products	70	187	10	13
Cereal Preparations	46	101	6	9
Rice Milling	0	0	0	0
Blended and Prepared Flour	41	108	5	7
Wet Corn Milling	0	0	0	0
Dog, Cat, and Other Pet Food	0	0	0	0
Prepared Feeds, N.E.C	4	8	0 ^b	0 ^b
Total --	161	404	21	29
<u>Bakery Products</u>				
Bread, Cake, and Related Products	231	1,597	63	93
Cookies and Crackers	591	2,729	116	256
Total --	822	4,326	178	349
<u>Sugar & Confectionary Products</u>				
Sugar	0	0	0	0
Confectionery Products	376	1,418	67	147
Chocolate and Cocoa Products	0	0	0	0
Chewing Gum	0	0	0	0
Salted and Roasted Nuts & Seeds	0	0	0	0
Total --	376	1,418	67	147
<u>Fats & Oils</u>				
Cottonseed Oil Mills	0	0	0	0
Soybean Oil Mills	53	36	1	3
Vegetable Oil Mills, N.E.C	0	0	0	0

Table A.6. (Continued)

Sector	TIO (million \$)	Employment (number)	Wages (million \$)	TVA (million \$)
Animal and Marine Fats and Oils	0	0	0	0
Shortening and Cooking Oils	2	3	0 ^b	0 ^b
Total --	55	39	2	3
<u>Beverages</u>				
Malt Beverages	3	8	0 ^b	1
Malt	0	0	0	0
Wines, Brandy, and Brandy Spirits	1	3	0 ^b	0 ^b
Distilled Liquor, Except Brandy	0	0	0	0
Bottled and Canned Soft Drinks & Water	373	1,120	42	71
Flavoring Extracts and Syrups, N.E.C.	10	45	3	5
Total --	386	1,176	46	78
<u>Miscellaneous Food Preparations</u>				
Canned and Cured Sea Foods	0	0	0	0
Prepared Fresh Or Frozen Fish Or Seafood	0	0	0	0
Roasted Coffee	0	0	0	0
Potato Chips & Similar Snacks	0	0	0	0
Manufactured Ice	0 ^b	7	0 ^b	0 ^b
Macaroni and Spaghetti	0	0	0	0
Food Preparations, N.E.C.	37	191	5	10
Total --	37	198	6	10
Total --	2,231	9,498	378	693
<u>Tobacco</u>				
Cigarettes	0	0	0	0
Cigars	0	0	0	0
Chewing and Smoking Tobacco	0	0	0	0
Tobacco Stemming and Redrying	0	0	0	0
Total --	0	0	0	0
<u>Textiles</u>				
<u>Broadwoven Fabric Mills and Finishing</u>	49	422	12	15
<u>Narrow Fabric Mills</u>	4	68	1	2
<u>Knitting Mills</u>				
Women's Hosiery, Except Socks	11	182	2	3
Hosiery, N.E.C.	218	2,395	59	72
Knit Outerwear Mills	3	32	0 ^b	0 ^b
Knit Underwear Mills	0 ^b	4	0 ^b	0 ^b
Knit Fabric Mills	42	226	7	9
Knitting Mills, N.E.C.	0	0	0	0
Total --	274	2,839	70	85
<u>Yarn/Thread Mills</u>				

Table A.6. (Continued)

Sector	TIO	Employment	Wages	TVA
	(million \$)	(number)	(million \$)	(million \$)
Yarn Mills and Finishing Of Textiles, N.E.C.	422	2,944	96	131
Thread Mills	7	43	2	3
Total --	429	2,987	97	134
<u>Carpets and Rugs</u>	64	375	9	13
<u>Miscellaneous Textile Goods</u>				
Coated Fabrics, Not Rubberized	12	64	2	2
Tire Cord and Fabric	0	0	0	0
Nonwoven Fabrics	0	0	0	0
Cordage and Twine	4	36	1	1
Textile Goods, N.E.C.	51	412	10	8
Total --	67	512	13	11
Total --	887	7,202	202	259
<i>Apparel</i>				
<u>Apparel Made From Purchased Materials</u>	299	3,731	73	92
<u>Misc. Fabricated Textile Products</u>				
Curtains and Draperies	3	51	2	2
Housefurnishings, N.E.C.	45	403	10	18
Textile Bags	16	124	7	9
Canvas Products	6	61	2	4
Pleating and Stitching	1	28	0 ^b	1
Automotive and Apparel Trimmings	31	251	8	11
Schiffi Machine Embroideries	0	0	0	0
Fabricated Textile Products, N.E.C.	8	81	1	2
Total --	109	998	31	46
Total --	408	4,729	103	138
<i>Leather</i>				
<u>Leather Tanning and Finishing</u>	0	0	0	0
<u>Footwear Cut Stock</u>	0	0	0	0
<u>Footwear, Except Rubber</u>				
House Slippers	0 ^b	1	0 ^b	0 ^b
Shoes, Except Rubber	0	0	0	0
Total --	0	1	0	0
<u>Leather Gloves and Mittens</u>	4	99	2	2
<u>Luggage</u>	0	0	0	0
<u>Handbags & Other Personal Leather Goods</u>				

Table A.6. (Continued)

Sector	TIO (million \$)	Employment (number)	Wages (million \$)	TVA (million \$)
Women's Handbags and Purses	0	0	0	0
Personal Leather Goods	0	0	0	0
Total --	0	0	0	0
<u>Leather Goods, N.E.C</u>	15	277	6	11
Total --	20	376	8	13
Secondary Agriculture Total --	3,546	21,806	692	1,103
Agriculture Total --	3,873	29,813	727	1,181
Forest & Forestry Products, Logging				
<u>Forest Products</u>	7	196	0 ^b	2
<u>Forestry Products</u>	35	180	1	13
<u>Logging Camps and Logging Contractors</u>	17	106	2	6
Forest & Forestry Products, Logging Total --	58	482	3	21
Primary Forestry				
<u>Sawmills and Planing Mills</u>				
Sawmills and Planing Mills, General	20	151	2	4
Hardwood Dimension and Flooring Mills	12	191	3	5
Special Product Sawmills, N.E.C	0	0	0	0
Total --	32	342	6	9
<u>Pulp Mills</u>	18	42	2	5
<u>Paper Mills, Except Building Paper</u>	283	1,070	81	120
<u>Paperboard Mills</u>	108	279	16	29
Primary Forestry Total --	441	1,733	105	163
Secondary Forestry				
<u>Millwork, Veneer, Plywood, & Struct. Wood</u>				
Millwork	5	53	1	2
Wood Kitchen Cabinets	11	168	4	6
Veneer and Plywood	0	0	0	0
Structural Wood Members, N.E.C	20	178	5	7
Total --	36	400	10	15
<u>Wood Containers</u>				
Wood Containers	3	36	1	1
Wood Pallets and Skids	7	122	2	3
Total --	10	159	3	4
<u>Wood Buildings & Mobile Homes</u>				
Mobile Homes	0 ^b	1	0 ^b	0 ^b

Table A.6. (Continued)

Sector	TIO (million \$)	Employment (number)	Wages (million \$)	TVA (million \$)
Prefabricated Wood Buildings	5	49	1	2
Total --	5	50	1	2
<u>Miscellaneous Wood Products</u>				
Wood Preserving	10	35	1	2
Reconstituted Wood Products	15	73	2	5
Wood Products, N.E.C	25	359	6	11
Gum and Wood Chemicals	0	0	0	0
Total --	49	466	9	17
<u>Household Furniture</u>				
Wood Household Furniture	47	567	13	19
Upholstered Household Furniture	347	3,618	98	128
Mattresses and Bedsprings	53	451	15	20
Wood TV and Radio Cabinets	0 ^b	4	0 ^b	0 ^b
Household Furniture, N.E.C	34	475	14	17
Total --	482	5,115	141	183
<u>Wood Office Furniture</u>	7	86	3	3
<u>Public Building Furniture</u>	244	1,337	48	76
<u>Wood Partitions and Fixtures</u>	2	21	1	1
<u>Miscellaneous</u>				
Blinds, Shades, and Drapery Hardware	0	0	0	0
Furniture and Fixtures, N.E.C	0	0	0	0
Total --	0	0	0	0
<u>Paperboard Containers and Boxes</u>	265	1,498	61	76
<u>Converted Paper & Paperboard Products</u>				
Paper Coated & Laminated Packaging	0	0	0	0
Paper Coated & Laminated N.E.C.	1	5	0 ^b	0 ^b
Bags, Paper	0	0	0	0
Die-cut Paper and Board	0 ^b	2	0 ^b	0 ^b
Sanitary Paper Products	0	0	0	0
Envelopes	0 ^b	4	0 ^b	0 ^b
Stationery Products	67	314	12	23
Converted Paper Products, N.E.C	1	4	0 ^b	0 ^b
Total --	69	328	12	23
Secondary Forestry Total --	1,168	9,461	288	399
Forestry Total --	1,667	11,676	395	584
Agriculture & Forestry Total --	5,540	41,490	1,122	1,765

^a Totals may not add due to rounding.

^b Values of zero are nonzero values less than 1.

Table A.7. Knoxville Region: Direct Impacts from Agriculture and Forestry ^a

Sector	TIO (million \$)	Employment (number)	Wages (million \$)	TVA (million \$)
<i>Agricultural Inputs</i>				
<i>Agricultural Chemicals</i>				
Nitrogenous and Phosphatic Fertilizers	0	0	0	0
Fertilizers, Mixing Only	1	4	0 ^b	0 ^b
Agricultural Chemicals, N.E.C	8	18	1	3
Total --	9	22	1	3
<i>Agricultural Machinery</i>				
Farm Machinery and Equipment	3	15	0 ^b	1
Lawn and Garden Equipment	0	0	0	0
Total --	3	15	0	1
<i>Agricultural Inputs Total --</i>	11	37	2	4
<i>Primary Agriculture</i>				
Dairy Farm Products	28	647	3	9
Poultry and Eggs	23	346	2	5
Ranch Fed Cattle	51	2,755	4	12
Range Fed Cattle	3	160	0 ^b	1
Cattle Feedlots	3	35	0 ^b	1
Sheep, Lambs and Goats	0 ^b	91	0 ^b	0 ^b
Hogs, Pigs and Swine	1	164	0 ^b	0 ^b
Other Meat Animal Products	0	0	0	0
Miscellaneous Livestock	3	797	0 ^b	1
Cotton	0	0	0	0
Food Grains	1	46	0 ^b	0 ^b
Feed Grains	2	129	0 ^b	1
Hay and Pasture	39	6,232	1	16
Grass Seeds	0	0	0	0
Tobacco	31	2,956	4	8
Fruits	1	71	0 ^b	0 ^b
Tree Nuts	0	0	0	0
Vegetables	9	288	2	6
Sugar Crops	0	0	0	0
Miscellaneous Crops	0 ^b	4	0 ^b	0 ^b
Oil Bearing Crops	1	88	0 ^b	1
Greenhouse and Nursery Products	32	1,226	6	18
Agricultural, Forestry, Fishery Services	13	555	4	7
Landscape and Horticultural Services	62	2,961	24	47
<i>Primary Agriculture Total --</i>	303	19,553	51	132
<i>Secondary Agriculture</i>				
<i>Food & Kindred Products</i>				
Meat Packing Plants	62	177	7	9
Sausages and Other Prepared Meats	241	1,144	31	41

Table A.7. (Continued)

Sector	TIO (million \$)	Employment (number)	Wages (million \$)	TVA (million \$)
Poultry Processing	106	859	20	24
Total --	410	2,181	59	74
<u>Dairy Products</u>				
Creamery Butter	0	0	0	0
Cheese, Natural and Processed	0	0	0	0
Condensed and Evaporated Milk	0	0	0	0
Ice Cream and Frozen Desserts	0	0	0	0
Fluid Milk	40	109	4	6
Total --	40	109	4	6
<u>Canned, Frozen, & Preserved Fruits</u>				
Canned Specialties	0	0	0	0
Canned Fruits and Vegetables	186	887	36	56
Dehydrated Food Products	0	0	0	0
Pickles, Sauces, and Salad Dressings	0	0	0	0
Frozen Fruits, Juices and Vegetables	0	0	0	0
Frozen Specialties	3	13	1	1
Total --	189	900	36	57
<u>Grain Mill Products</u>				
Flour and Other Grain Mill Products	131	335	21	29
Cereal Preparations	0	0	0	0
Rice Milling	0	0	0	0
Blended and Prepared Flour	0	0	0	0
Wet Corn Milling	73	85	6	18
Dog, Cat, and Other Pet Food	0	0	0	0
Prepared Feeds, N.E.C	8	19	1	1
Total --	212	439	27	47
<u>Bakery Products</u>				
Bread, Cake, and Related Products	107	842	24	36
Cookies and Crackers	0	0	0	0
Total --	107	842	24	36
<u>Sugar & Confectionary Products</u>				
Sugar	0	0	0	0
Confectionery Products	2	10	0 ^b	1
Chocolate and Cocoa Products	23	89	3	7
Chewing Gum	0	0	0	0
Salted and Roasted Nuts & Seeds	0	0	0	0
Total --	25	98	3	7
<u>Fats & Oils</u>				
Cottonseed Oil Mills	0	0	0	0
Soybean Oil Mills	0	0	0	0
Vegetable Oil Mills, N.E.C	0	0	0	0

Table A.7. (Continued)

Sector	TIO (million \$)	Employment (number)	Wages (million \$)	TVA (million \$)
Animal and Marine Fats and Oils	0	0	0	0
Shortening and Cooking Oils	0	0	0	0
Total --	0	0	0	0
<u>Beverages</u>				
Malt Beverages	1	4	0 ^b	0 ^b
Malt	0	0	0	0
Wines, Brandy, and Brandy Spirits	2	9	0 ^b	0 ^b
Distilled Liquor, Except Brandy	0	0	0	0
Bottled and Canned Soft Drinks & Water	121	375	12	20
Flavoring Extracts and Syrups, N.E.C.	0	0	0	0
Total --	124	388	12	21
<u>Miscellaneous Food Preparations</u>				
Canned and Cured Sea Foods	0	0	0	0
Prepared Fresh Or Frozen Fish Or Seafood	0	0	0	0
Roasted Coffee	116	196	6	23
Potato Chips & Similar Snacks	92	305	13	32
Manufactured Ice	1	12	0 ^b	0 ^b
Macaroni and Spaghetti	0	0	0	0
Food Preparations, N.E.C.	9	51	1	2
Total --	217	563	21	57
Total --	1,324	5,521	187	306
<u>Tobacco</u>				
Cigarettes	0	0	0	0
Cigars	0	0	0	0
Chewing and Smoking Tobacco	0	0	0	0
Tobacco Stemming and Redrying	0	0	0	0
Total --	0	0	0	0
<u>Textiles</u>				
<u>Broadwoven Fabric Mills and Finishing</u>	103	843	27	33
<u>Narrow Fabric Mills</u>	11	157	4	5
<u>Knitting Mills</u>				
Women's Hosiery, Except Socks	52	713	17	21
Hosiery, N.E.C.	23	270	6	7
Knit Outerwear Mills	9	89	1	1
Knit Underwear Mills	20	403	9	12
Knit Fabric Mills	87	507	11	13
Knitting Mills, N.E.C.	0	0	0	0
Total --	191	1,982	44	54
<u>Yard/Thread Mills</u>				

Table A.7. (Continued)

Sector	TIO (million \$)	Employment (number)	Wages (million \$)	TVA (million \$)
Yarn Mills and Finishing Of Textiles, N.E.C.	13	98	3	4
Thread Mills	1	4	0 ^b	0 ^b
Total --	14	102	3	4
<u>Carpets and Rugs</u>	13	76	2	2
<u>Miscellaneous Textile Goods</u>				
Coated Fabrics, Not Rubberized	0	0	0	0
Tire Cord and Fabric	0	0	0	0
Nonwoven Fabrics	0	0	0	0
Cordage and Twine	34	271	9	10
Textile Goods, N.E.C.	13	116	2	1
Total --	47	388	11	11
Total --	378	3,548	91	111
<i>Apparel</i>				
<u>Apparel Made From Purchased Materials</u>	604	7,180	162	204
<u>Misc. Fabricated Textile Products</u>				
Curtains and Draperies	0 ^b	7	0 ^b	0 ^b
Housefurnishings, N.E.C.	6	53	1	2
Textile Bags	0	0	0	0
Canvas Products	23	327	9	14
Pleating and Stitching	0 ^b	7	0 ^b	0 ^b
Automotive and Apparel Trimmings	92	760	25	31
Schiffi Machine Embroideries	0	0	0	0
Fabricated Textile Products, N.E.C.	219	1,211	54	110
Total --	341	2,365	89	157
Total --	945	9,545	251	361
<i>Leather</i>				
<u>Leather Tanning and Finishing</u>	0	0	0	0
<u>Footwear Cut Stock</u>	0	0	0	0
<u>Footwear, Except Rubber</u>				
House Slippers	0	0	0	0
Shoes, Except Rubber	0 ^b	2	0 ^b	0 ^b
Total --	0	2	0	0
<u>Leather Gloves and Mittens</u>	0	0	0	0
<u>Luggage</u>	23	205	6	13
<u>Handbags & Other Personal Leather Goods</u>				

Table A.7. (Continued)

Sector	TIO (million \$)	Employment (number)	Wages (million \$)	TVA (million \$)
Women's Handbags and Purses	1	12	0 ^b	0 ^b
Personal Leather Goods	0	0	0	0
Total --	1	12	0	0
<u>Leather Goods, N.E.C</u>	1	12	0	0
Total --	24	231	7	14
Secondary Agriculture Total --	2,672	18,845	536	792
Agriculture Total --	2,986	38,435	588	927
Forest & Forestry Products, Logging				
<u>Forest Products</u>	9	395	0 ^b	4
<u>Forestry Products</u>	39	264	1	11
<u>Logging Camps and Logging Contractors</u>	27	194	3	9
Forest & Forestry Products, Logging Total --	76	852	5	24
Primary Forestry				
<u>Sawmills & Planing Mills</u>				
Sawmills and Planing Mills, General	52	359	7	12
Hardwood Dimension and Flooring Mills	124	1,810	42	62
Special Product Sawmills, N.E.C	3	59	1	2
Total --	179	2,229	50	76
<u>Pulp Mills</u>	0	0	0	0
<u>Paper Mills, Except Building Paper</u>	24	114	5	7
<u>Paperboard Mills</u>	0	0	0	0
Primary Forestry Total --	203	2,342	55	84
Secondary Forestry				
<u>Millwork, Veneer, Plywood, & Struct. Wood</u>				
Millwork	21	232	6	8
Wood Kitchen Cabinets	58	872	18	28
Veneer and Plywood	0	0	0	0
Structural Wood Members, N.E.C	44	390	11	16
Total --	122	1,493	35	52
<u>Wood Containers</u>				
Wood Containers	0 ^b	7	0 ^b	0 ^b
Wood Pallets and Skids	8	134	2	3
Total --	8	141	2	3
<u>Wood Buildings & Mobile Homes</u>				
Mobile Homes	237	2,109	61	98

Table A.7. (Continued)

Sector	TIO (million \$)	Employment (number)	Wages (million \$)	TVA (million \$)
Prefabricated Wood Buildings	65	600	16	23
Total --	302	2,710	77	121
<u>Miscellaneous Wood Products</u>				
Wood Preserving	2	6	0 ^b	0 ^b
Reconstituted Wood Products	0	0	0	0
Wood Products, N.E.C	10	151	3	4
Gum and Wood Chemicals	0	0	0	0
Total --	11	157	3	4
<u>Household Furniture</u>				
Wood Household Furniture	177	2,082	50	70
Upholstered Household Furniture	438	4,632	121	159
Mattresses and Bedspings	9	92	2	3
Wood TV and Radio Cabinets	92	860	27	33
Household Furniture, N.E.C	12	186	4	5
Total --	728	7,853	204	269
<u>Wood Office Furniture</u>	0 ^b	4	0 ^b	0 ^b
<u>Public Building Furniture</u>	41	216	8	13
<u>Wood Partitions and Fixtures</u>	19	291	6	8
<u>Miscellaneous</u>				
Blinds, Shades, and Drapery Hardware	1	6	0 ^b	0 ^b
Furniture and Fixtures, N.E.C	245	1,250	36	62
Total --	246	1,256	36	62
<u>Paperboard Containers and Boxes</u>				
	157	855	39	48
<u>Converted Paper & Paperboard Products</u>				
Paper Coated & Laminated Packaging	32	149	7	11
Paper Coated & Laminated N.E.C.	9	48	2	4
Bags, Paper	0	0	0	0
Die-cut Paper and Board	6	43	2	3
Sanitary Paper Products	0	0	0	0
Envelopes	0	0	0	0
Stationery Products	0	0	0	0
Converted Paper Products, N.E.C	98	610	19	31
Total --	146	850	31	48
Secondary Forestry Total --	1,780	15,825	441	630
Forestry Total --	2,059	19,019	501	738
Agriculture & Forestry Total --	5,045	57,454	1,089	1,666

^a Totals may not add due to rounding.

^b Values of zero are nonzero values less than 1.

Table A.8. Tri-Cities Region: Direct Impacts from Agriculture and Forestry ^a

Sector	TIO	Employment	Wages	TVA
	(million \$)	(number)	(million \$)	(million \$)
<i>Agricultural Inputs</i>				
<i>Agricultural Chemicals</i>				
Nitrogenous and Phosphatic Fertilizers	0	0	0	0
Fertilizers, Mixing Only	1	3	0 ^b	0
Agricultural Chemicals, N.E.C	3	6	0 ^b	1
Total --	4	10	1	1
<i>Agricultural Machinery</i>				
Farm Machinery and Equipment	3	18	0 ^b	1
Lawn and Garden Equipment	53	212	7	14
Total --	55	230	7	15
<i>Agricultural Inputs Total --</i>	59	240	8	16
<i>Primary Agriculture</i>				
Dairy Farm Products	27	591	2	8
Poultry and Eggs	13	181	1	3
Ranch Fed Cattle	35	1,872	2	8
Range Fed Cattle	2	115	0 ^b	1
Cattle Feedlots	2	24	0 ^b	0 ^b
Sheep, Lambs and Goats	0 ^b	33	0 ^b	0 ^b
Hogs, Pigs and Swine	0 ^b	117	0 ^b	0 ^b
Other Meat Animal Products	0	0	0	0
Miscellaneous Livestock	2	668	0 ^b	1
Cotton	0	0	0	0
Food Grains	0 ^b	12	0 ^b	0 ^b
Feed Grains	1	97	0 ^b	1
Hay and Pasture	29	4,757	1	13
Grass Seeds	0	0	0	0
Tobacco	40	3,471	4	10
Fruits	0 ^b	37	0 ^b	0 ^b
Tree Nuts	0	0	0	0
Vegetables	13	167	2	7
Sugar Crops	0	0	0	0
Miscellaneous Crops	0 ^b	3	0 ^b	0 ^b
Oil Bearing Crops	0 ^b	22	0 ^b	0 ^b
Greenhouse and Nursery Products	8	628	2	6
Agricultural, Forestry, Fishery Services	1	57	0 ^b	1
Landscape and Horticultural Services	20	904	8	15
<i>Primary Agriculture Total --</i>	196	13,756	25	74
<i>Secondary Agriculture</i>				
<i>Food & Kindred Products</i>				
Meat Packing Plants	7	19	1	1
Sausages and Other Prepared Meats	0	0	0	0

Table A.8. (Continued)

Sector	TIO	Employment	Wages	TVA
	(million \$)	(number)	(million \$)	(million \$)
Poultry Processing	0	0	0	0
Total --	7	19	1	1
<u>Dairy Products</u>				
Creamery Butter	0	0	0	0
Cheese, Natural and Processed	0	0	0	0
Condensed and Evaporated Milk	85	224	9	12
Ice Cream and Frozen Desserts	0	0	0	0
Fluid Milk	78	209	8	12
Total --	162	433	17	24
<u>Canned, Frozen, & Preserved Fruits</u>				
Canned Specialties	0	0	0	0
Canned Fruits and Vegetables	19	85	4	6
Dehydrated Food Products	0	0	0	0
Pickles, Sauces, and Salad Dressings	0	0	0	0
Frozen Fruits, Juices and Vegetables	0	0	0	0
Frozen Specialties	0	0	0	0
Total --	19	85	4	6
<u>Grain Mill Products</u>				
Flour and Other Grain Mill Products	17	40	3	5
Cereal Preparations	0	0	0	0
Rice Milling	0	0	0	0
Blended and Prepared Flour	0	0	0	0
Wet Corn Milling	0	0	0	0
Dog, Cat, and Other Pet Food	0	0	0	0
Prepared Feeds, N.E.C	5	12	1	1
Total --	22	52	4	5
<u>Bakery Products</u>				
Bread, Cake, and Related Products	46	318	12	18
Cookies and Crackers	0	0	0	0
Total --	46	318	12	18
<u>Sugar & Confectionary Products</u>				
Sugar	0	0	0	0
Confectionery Products	1	3	0 ^b	0 ^b
Chocolate and Cocoa Products	0	0	0	0
Chewing Gum	0	0	0	0
Salted and Roasted Nuts & Seeds	0	0	0	0
Total --	1	3	0	0
<u>Fats & Oils</u>				
Cottonseed Oil Mills	0	0	0	0
Soybean Oil Mills	0	0	0	0
Vegetable Oil Mills, N.E.C	0	0	0	0

Table A.8. (Continued)

Sector	TIO	Employment	Wages	TVA
	(million \$)	(number)	(million \$)	(million \$)
Animal and Marine Fats and Oils	0	0	0	0
Shortening and Cooking Oils	0	0	0	0
Total --	0	0	0	0
<u>Beverages</u>				
Malt Beverages	0	0	0	0
Malt	0	0	0	0
Wines, Brandy, and Brandy Spirits	0	0	0	0
Distilled Liquor, Except Brandy	0	0	0	0
Bottled and Canned Soft Drinks & Water	16	49	2	3
Flavoring Extracts and Syrups, N.E.C.	0	0	0	0
Total --	16	49	2	3
<u>Miscellaneous Food Preparations</u>				
Canned and Cured Sea Foods	0	0	0	0
Prepared Fresh Or Frozen Fish Or Seafood	0	0	0	0
Roasted Coffee	0	0	0	0
Potato Chips & Similar Snacks	0	0	0	0
Manufactured Ice	0	0	0	0
Macaroni and Spaghetti	0	0	0	0
Food Preparations, N.E.C.	0	0	0	0
Total --	0	0	0	0
Total --	273	958	40	58
<u>Tobacco</u>				
Cigarettes	0	0	0	0
Cigars	0	0	0	0
Chewing and Smoking Tobacco	0	0	0	0
Tobacco Stemming and Redrying	3	6	0 ^b	0 ^b
Total --	3	6	0	0
<u>Textiles</u>				
<u>Broadwoven Fabric Mills and Finishing</u>	138	1,221	31	38
<u>Narrow Fabric Mills</u>	0 ^b	2	0 ^b	0 ^b
<u>Knitting Mills</u>				
Women's Hosiery, Except Socks	0	0	0	0
Hosiery, N.E.C.	0 ^b	3	0 ^b	0 ^b
Knit Outerwear Mills	6	58	1	1
Knit Underwear Mills	0	0	0	0
Knit Fabric Mills	44	247	7	8
Knitting Mills, N.E.C.	0 ^b	3	0 ^b	0 ^b
Total --	50	311	8	9
<u>Yarn/Thread Mills</u>				

Table A.8. (Continued)

Sector	TIO	Employment	Wages	TVA
	(million \$)	(number)	(million \$)	(million \$)
Yarn Mills and Finishing Of Textiles, N.E.C.	100	719	21	29
Thread Mills	0	0	0	0
Total --	100	719	21	29
<u>Carpets and Rugs</u>	0 ^b	3	0 ^b	0 ^b
<u>Miscellaneous Textile Goods</u>				
Coated Fabrics, Not Rubberized	72	369	14	15
Tire Cord and Fabric	0	0	0	0
Nonwoven Fabrics	10	34	2	4
Cordage and Twine	0	0	0	0
Textile Goods, N.E.C.	0	0	0	0
Total --	82	403	16	19
Total --	371	2,658	76	96
<u>Apparel</u>				
<u>Apparel Made From Purchased Materials</u>	164	2,026	41	51
<u>Misc. Fabricated Textile Products</u>				
Curtains and Draperies	0	0	0	0
Housefurnishings, N.E.C.	0	0	0	0
Textile Bags	8	108	2	3
Canvas Products	2	31	1	1
Pleating and Stitching	1	32	0 ^b	1
Automotive and Apparel Trimmings	0 ^b	2	0 ^b	0 ^b
Schiffi Machine Embroideries	0	0	0	0
Fabricated Textile Products, N.E.C.	1	6	0 ^b	0
Total --	12	178	4	6
Total --	176	2,203	44	57
<u>Leather</u>				
<u>Leather Tanning and Finishing</u>	2	12	0 ^b	0 ^b
<u>Footwear Cut Stock</u>	0	0	0	0
<u>Footwear, Except Rubber</u>				
House Slippers	0	0	0	0
Shoes, Except Rubber	17	249	5	7
Total --	17	249	5	7
<u>Leather Gloves and Mittens</u>	0	0	0	0
<u>Luggage</u>	0 ^b	1	0 ^b	0 ^b
<u>Handbags & Other Personal Leather Goods</u>				

Table A.8. (Continued)

Sector	TIO	Employment	Wages	TVA
	(million \$)	(number)	(million \$)	(million \$)
Women's Handbags and Purses	0	0	0	0
Personal Leather Goods	0	0	0	0
Total --	0	0	0	0
<u>Leather Goods, N.E.C</u>	1	31	1	1
Total --	21	294	6	9
Secondary Agriculture Total --				
	843	6,120	166	220
Agriculture Total --				
	1,099	20,116	198	310
Forest & Forestry Products, Logging				
<u>Forest Products</u>	5	271	0 ^b	3
<u>Forestry Products</u>	33	302	2	4
<u>Logging Camps and Logging Contractors</u>	9	65	1	3
Forest & Forestry Products, Logging Total --	47	638	3	9
Primary Forestry				
<u>Sawmills & Planing Mills</u>				
Sawmills and Planing Mills, General	41	279	6	10
Hardwood Dimension and Flooring Mills	30	402	11	16
Special Product Sawmills, N.E.C	0	0	0	0
Total --	71	682	17	26
<u>Pulp Mills</u>	0	0	0	0
<u>Paper Mills, Except Building Paper</u>	190	815	46	69
<u>Paperboard Mills</u>	0	0	0	0
Primary Forestry Total --	262	1,497	63	95
Secondary Forestry				
<u>Millwork, Veneer, Plywood, & Struct. Wood</u>				
Millwork	0 ^b	4	0 ^b	0 ^b
Wood Kitchen Cabinets	4	56	1	2
Veneer and Plywood	0	0	0	0
Structural Wood Members, N.E.C	19	173	5	7
Total --	24	232	6	9
<u>Wood Containers</u>				
Wood Containers	0	0	0	0
Wood Pallets and Skids	6	100	2	3
Total --	6	100	2	3
<u>Wood Buildings & Mobile Homes</u>				
Mobile Homes	0	0	0	0

Table A.8. (Continued)

Sector	TIO	Employment	Wages	TVA
	(million \$)	(number)	(million \$)	(million \$)
Prefabricated Wood Buildings	0 ^b	2	0 ^b	0 ^b
Total --	0	2	0	0
<u>Miscellaneous Wood Products</u>				
Wood Preserving	41	158	3	7
Reconstituted Wood Products	14	69	2	5
Wood Products, N.E.C	8	120	2	4
Gum and Wood Chemicals	0	0	0	0
Total --	64	346	8	16
<u>Household Furniture</u>				
Wood Household Furniture	58	713	16	22
Upholstered Household Furniture	15	152	4	6
Mattresses and Bedsprings	2	20	0 ^b	1
Wood TV and Radio Cabinets	0	0	0	0
Household Furniture, N.E.C	1	22	0 ^b	1
Total --	77	907	21	29
<u>Wood Office Furniture</u>	0	0	0	0
<u>Public Building Furniture</u>	12	69	2	3
<u>Wood Partitions and Fixtures</u>	0 ^b	3	0 ^b	0 ^b
<u>Miscellaneous</u>				
Blinds, Shades, and Drapery Hardware	0 ^b	3	0 ^b	0 ^b
Furniture and Fixtures, N.E.C	0	0	0	0
Total --	0	3	0	0
<u>Paperboard Containers and Boxes</u>	54	310	12	14
<u>Converted Paper & Paperboard Products</u>				
Paper Coated & Laminated Packaging	0	0	0	0
Paper Coated & Laminated N.E.C.	11	76	2	2
Bags, Paper	1	8	0 ^b	1
Die-cut Paper and Board	0	0	0	0
Sanitary Paper Products	0	0	0	0
Envelopes	0	0	0	0
Stationery Products	0	0	0	0
Converted Paper Products, N.E.C	165	1,096	28	45
Total --	177	1,180	30	48
Secondary Forestry Total --	413	3,152	80	122
Forestry Total --	722	5,287	147	227
Agriculture & Forestry Total --	1,820	25,403	345	536

^a Totals may not add due to rounding.

^b Values of zero are nonzero values less than 1.

**Appendix Section 3: Detailed Presentation of Total Economic Impacts
(Indirect and Induced) of Agriculture and Forestry**

Table A.9. State of Tennessee: Total Impacts from Agriculture and Forestry ^a

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced
<i>Agricultural Inputs</i>																
<i>Agricultural Chemicals</i>																
Nitrogenous and Phosphatic Fertilizers	1.30	276	1.72	366	3.27	898	7.93	2,180	1.38	118	2.02	173	1.39	67	2.04	97
Fertilizers, Mixing Only	1.43	36	1.75	44	1.90	207	2.97	324	2.41	10	3.64	15	2.03	6	2.91	9
Agricultural Chemicals, N.E.C	1.40	283	1.83	370	2.78	1,200	5.62	2,429	1.47	129	2.06	182	1.82	54	2.81	84
Total --		595		780		2,305		4,933		258		369		127		190
<i>Agricultural Machinery</i>																
Farm Machinery and Equipment	1.43	147	1.84	189	1.71	1,013	2.73	1,616	1.68	55	2.46	81	1.72	31	2.53	45
Lawn and Garden Equipment	1.45	1,281	1.82	1,610	2.04	6,926	3.43	11,647	1.70	442	2.47	642	1.90	230	2.83	344
Total --		1,429		1,799		7,938		13,263		497		723		261		390
<i>Agricultural Inputs Total --</i>		2,024		2,579		10,244		18,196		755		1,092		388		580
<i>Primary Agriculture</i>																
Dairy Farm Products	1.41	296	1.77	371	1.66	5,603	1.98	6,692	1.97	89	2.99	135	2.44	35	4.25	61
Poultry and Eggs	1.33	389	1.54	452	1.58	3,728	1.98	4,653	2.49	76	3.77	115	3.39	35	5.53	58
Ranch Fed Cattle	1.64	622	2.00	758	1.47	20,823	1.61	22,827	2.63	165	3.97	249	3.04	66	5.29	114
Range Fed Cattle	1.52	39	1.84	47	1.40	1,308	1.53	1,428	2.17	10	3.30	15	2.55	4	4.58	7
Cattle Feedlots	1.41	30	1.71	36	1.91	409	2.35	503	2.34	8	3.54	12	2.67	3	4.61	5
Sheep, Lambs and Goats	1.39	2	1.70	2	1.06	342	1.08	347	2.15	0 ^b	3.28	1	2.43	0 ^b	4.22	0 ^b
Hogs, Pigs and Swine	1.59	114	1.87	134	1.55	2,819	1.72	3,116	3.43	25	5.14	37	3.85	11	6.51	18
Other Meat Animal Products	1.43	0 ^b	1.71	0 ^b	1.28	3	1.39	3	2.87	0 ^b	4.32	0 ^b	3.74	0 ^b	6.52	0 ^b
Miscellaneous Livestock	1.41	46	1.74	57	1.06	5,123	1.09	5,280	1.87	13	2.80	20	1.98	6	3.18	10
Cotton	1.47	306	1.84	383	1.67	3,388	2.23	4,525	2.51	98	3.74	146	4.96	34	9.04	62
Food Grains	1.48	65	1.87	82	1.13	1,994	1.27	2,245	2.18	24	3.16	34	8.64	6	17.55	12
Feed Grains	1.42	208	1.78	261	1.22	4,488	1.43	5,274	2.04	71	2.98	104	7.64	19	15.62	38
Hay and Pasture	1.38	387	1.78	498	1.04	33,852	1.09	35,488	1.76	148	2.58	216	4.52	36	9.51	77
Grass Seeds	1.48	1	1.85	2	1.03	190	1.06	196	1.79	1	2.56	1	12.11	0 ^b	22.64	0 ^b
Tobacco	1.42	269	1.77	334	1.08	12,942	1.16	13,906	2.13	87	3.13	127	2.13	37	3.47	61
Fruits	1.46	8	1.90	11	1.15	290	1.29	327	1.90	3	2.88	5	1.78	2	2.68	3

Table A.9. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced
Tree Nuts	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Vegetables	1.40	69	1.87	93	1.23	1,630	1.48	1,966	1.59	30	2.36	44	1.88	12	3.14	20
Sugar Crops	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Miscellaneous Crops	1.33	4	1.68	5	1.08	275	1.14	290	1.78	1	2.69	2	2.39	0 ^b	4.21	1
Oil Bearing Crops	1.54	377	1.95	480	1.25	8,732	1.47	10,248	2.21	140	3.22	203	5.00	38	9.95	75
Greenhouse and Nursery Products	1.54	328	1.99	424	1.33	7,136	1.59	8,505	1.81	132	2.61	190	2.19	52	3.57	85
Agricultural, Forestry, Fishery Services	1.27	150	1.88	222	1.11	4,575	1.37	5,623	1.22	84	1.86	129	1.19	50	1.78	75
Landscape and Horticultural Services	1.23	445	1.95	703	1.10	17,510	1.33	21,213	1.15	312	1.73	470	1.13	166	1.73	253
Primary Agriculture Total --		4,157		5,356		137,160		154,654		1,516		2,256		613		1,036
Secondary Agriculture																
<u>Food & Kindred Products</u>																
Meat Packing Plants	1.11	574	1.27	657	1.41	2,101	2.22	3,303	1.46	98	2.23	150	1.32	73	1.85	102
Sausages and Other Prepared Meats	1.55	813	1.85	970	1.90	4,717	2.81	6,995	2.16	194	3.25	292	1.94	133	2.75	188
Poultry Processing	1.19	488	1.45	597	1.23	4,014	1.71	5,592	1.33	132	2.01	200	1.25	104	1.70	142
Total --		1,874		2,224		10,833		15,889		424		641		310		432
<u>Dairy Products</u>																
Creamery Butter	1.88	49	2.21	58	4.57	183	7.69	307	3.50	11	5.22	16	4.05	6	6.06	9
Cheese, Natural and Processed	1.34	80	1.55	93	2.48	312	3.95	498	2.45	16	3.63	24	2.47	9	3.66	14
Condensed and Evaporated Milk	1.47	176	1.75	209	2.50	791	4.01	1,267	2.44	41	3.64	62	2.12	27	3.03	38
Ice Cream and Frozen Desserts	1.55	70	1.93	87	2.40	355	4.08	604	1.83	24	2.65	34	2.13	12	3.19	18
Fluid Milk	1.32	931	1.57	1,110	2.12	3,978	3.51	6,575	1.95	225	2.91	337	1.79	145	2.56	208
Total --		1,307		1,558		5,620		9,251		318		473		200		288
<u>Canned, Frozen, & Preserved Fruit</u>																
Canned Specialties	1.47	20	1.81	24	2.87	97	4.77	162	1.86	7	2.63	9	2.71	3	4.17	5
Canned Fruits and Vegetables	1.43	360	1.85	465	1.97	2,351	3.23	3,863	1.80	136	2.65	201	1.73	83	2.49	120
Dehydrated Food Products	1.24	2	1.66	2	1.70	9	3.33	17	1.21	1	1.65	1	1.48	0 ^b	2.43	1
Pickles, Sauces, and Salad Dressings	1.30	136	1.65	173	2.08	623	3.79	1,134	1.37	61	1.86	83	1.95	20	3.19	32
Frozen Fruits, Juices and Vegetables	1.49	214	1.88	270	1.99	1,468	3.07	2,269	2.24	68	3.37	103	1.94	45	2.78	65

Table A.9. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced
Frozen Specialties	1.40	414	1.83	539	1.77	2,527	3.02	4,319	1.46	172	2.12	249	1.50	98	2.16	142
Total --		1,146		1,474		7,075		11,764		446		647		250		364
<u>Grain Mill Products</u>																
Flour and Other Grain Mill Products	1.48	350	1.88	447	2.91	1,773	5.23	3,188	2.33	120	3.51	180	2.06	76	3.01	111
Cereal Preparations	1.58	591	2.02	755	4.03	3,027	7.18	5,394	2.26	206	3.37	308	2.10	133	3.01	190
Rice Milling	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Blended and Prepared Flour	1.51	134	1.86	165	2.81	669	4.70	1,119	2.85	37	4.31	57	2.33	25	3.36	36
Wet Corn Milling	1.32	97	1.62	118	3.94	335	7.51	638	1.76	31	2.49	44	2.27	14	3.50	21
Dog, Cat, and Other Pet Food	1.54	172	1.88	210	2.86	856	4.72	1,411	2.41	49	3.58	73	2.33	30	3.39	43
Prepared Feeds, N.E.C	1.48	505	1.77	602	2.65	1,938	4.59	3,363	2.35	122	3.53	183	2.08	77	3.02	111
Total --		1,848		2,297		8,598		15,114		566		845		353		512
<u>Bakery Products</u>																
Bread, Cake, and Related Products	1.37	917	1.81	1,212	1.55	7,485	2.42	11,689	1.52	386	2.23	567	1.44	247	2.03	348
Cookies and Crackers	1.37	1,060	1.80	1,388	1.81	6,605	3.08	11,244	1.44	475	2.04	674	1.57	234	2.33	347
Total --		1,977		2,599		14,090		22,933		861		1,241		481		695
<u>Sugar & Confectionary Products</u>																
Sugar	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Confectionary Products	1.43	1,032	1.83	1,323	2.04	6,172	3.41	10,327	1.64	411	2.35	589	1.83	207	2.72	308
Chocolate and Cocoa Products	1.49	35	1.89	44	2.29	204	3.79	338	1.90	13	2.77	18	2.07	7	3.09	10
Chewing Gum	1.49	93	1.87	116	2.27	557	3.64	893	2.07	31	3.03	45	2.11	18	3.08	26
Salted and Roasted Nuts & Seeds	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --		1,160		1,483		6,933		11,557		454		652		231		344
<u>Fats & Oils</u>																
Cottonseed Oil Mills	1.54	129	1.87	156	2.95	596	4.91	992	3.20	33	4.85	50	2.46	22	3.56	31
Soybean Oil Mills	1.47	226	1.71	264	7.27	771	12.63	1,339	6.03	46	9.15	70	7.13	25	11.15	40
Vegetable Oil Mills, N.E.C	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Animal and Marine Fats and Oils	1.35	12	1.65	15	1.88	60	3.08	99	1.55	4	2.18	6	1.89	2	2.94	3
Shortening and Cooking Oils	1.59	626	1.92	758	3.31	2,189	6.18	4,090	1.88	182	2.72	264	2.12	93	3.18	140

Table A.9. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced
Total --		993		1,193		3,616		6,520		266		390		142		213
<u>Beverages</u>																
Malt Beverages	1.31	339	1.76	454	2.22	1,569	4.76	3,368	1.42	140	2.18	215	1.79	57	3.26	104
Malt	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Wines, Brandy, and Brandy Spirits	1.42	19	1.84	24	1.84	135	3.02	220	2.03	6	3.16	10	2.52	3	4.29	5
Distilled Liquor, Except Brandy	1.17	144	2.08	256	3.19	348	21.15	2,306	1.14	104	1.99	182	2.17	13	11.13	68
Bottled and Canned Soft Drinks & Water	1.40	1,586	1.71	1,941	2.40	8,145	3.91	13,279	2.07	461	3.07	681	2.07	274	3.01	399
Flavoring Extracts and Syrups, N.E.C.	1.29	13	1.77	18	1.61	77	3.06	147	1.27	7	1.82	10	1.29	4	1.84	6
Total --		2,101		2,694		10,274		19,320		718		1,098		351		581
<u>Miscellaneous Food Preparations</u>																
Canned and Cured Sea Foods	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Prepared Fresh Or Frozen Fish Or Seafood	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Roasted Coffee	1.64	198	2.05	248	5.04	1,024	8.64	1,754	2.88	68	4.19	99	5.02	32	7.83	50
Potato Chips & Similar Snacks	1.34	738	1.70	940	2.08	3,741	3.68	6,617	1.50	295	2.12	418	1.70	139	2.56	209
Manufactured Ice	1.31	5	1.90	7	1.17	92	1.57	124	1.28	3	1.88	4	1.22	2	1.67	3
Macaroni and Spaghetti	1.53	21	1.96	26	1.91	155	2.94	238	2.26	7	3.44	10	1.80	5	2.51	7
Food Preparations, N.E.C.	1.39	107	1.73	133	1.75	720	2.68	1,102	1.81	36	2.64	52	1.88	20	2.74	29
Total --		1,068		1,354		5,732		9,835		409		584		199		299
Total --		13,474		16,877		72,770		122,182		4,460		6,572		2,517		3,729
<u>Tobacco</u>																
Cigarettes	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Cigars	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Chewing and Smoking Tobacco	1.56	1,003	1.97	1,270	4.34	4,220	8.19	7,969	1.55	413	2.16	574	2.13	168	3.28	259
Tobacco Stemming and Redrying	1.72	191	2.00	221	3.84	833	5.88	1,276	4.34	38	6.48	57	4.41	23	6.53	33
Total --		1,194		1,492		5,053		9,245		451		631		191		292
<u>Textiles</u>																
Broadwoven Fabric Mills and Finishing	1.47	551	1.90	713	1.51	4,888	2.23	7,204	1.78	198	2.68	298	1.60	144	2.22	199

Table A.9. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced
<u>Narrow Fabric Mills</u>	1.48	25	2.07	35	1.32	325	1.89	466	1.52	12	2.30	18	1.40	9	1.91	13
<u>Knitting Mills</u>																
Women's Hosiery, Except Socks	1.57	98	2.08	130	1.35	1,212	1.86	1,666	1.63	39	2.44	59	1.51	29	2.08	40
Hosiery, N.E.C	1.58	383	2.04	495	1.50	4,003	2.10	5,601	1.72	137	2.60	206	1.58	103	2.16	141
Knit Outerwear Mills	1.65	40	1.98	48	1.57	380	2.04	497	2.67	10	4.04	15	2.24	7	3.11	10
Knit Underwear Mills	1.35	28	1.94	40	1.15	477	1.57	649	1.24	15	1.86	22	1.19	11	1.62	16
Knit Fabric Mills	1.80	880	2.20	1,080	2.13	5,730	3.20	8,612	2.47	243	3.73	367	2.17	177	3.02	246
Knitting Mills, N.E.C.	1.57	10	1.96	13	1.38	114	1.83	152	1.94	3	2.93	5	1.76	2	2.42	3
Total --		1,440		1,806		11,916		17,176		447		674		330		456
<u>Yarn/Thread Mills</u>																
Yarn Mills and Finishing Of Textiles, N.E.C.	1.66	994	2.15	1,289	1.78	7,490	2.78	11,716	2.03	370	3.03	552	1.89	252	2.65	354
Thread Mills	1.46	19	1.93	25	1.62	135	2.65	220	1.51	8	2.18	12	1.59	5	2.29	7
Total --		1,013		1,313		7,624		11,935		378		564		257		361
<u>Carpets and Rugs</u>	1.67	367	2.08	458	1.96	2,469	3.00	3,772	2.37	116	3.51	172	2.31	76	3.27	107
<u>Miscellaneous Textile Goods</u>																
Coated Fabrics, Not Rubberized	1.61	201	2.03	254	2.04	1,334	3.21	2,095	2.45	63	3.73	96	1.99	46	2.78	64
Tire Cord and Fabric	1.22	4	1.67	5	3.54	7	12.77	26	1.13	3	1.45	4	3.45	0 ^b	9.10	1
Nonwoven Fabrics	1.56	327	2.03	424	2.47	1,674	4.50	3,047	1.73	132	2.51	191	1.85	75	2.68	108
Cordage and Twine	1.55	70	2.04	92	1.63	578	2.51	894	1.91	26	2.90	40	1.60	20	2.21	27
Textile Goods, N.E.C	1.74	240	2.24	309	1.92	2,086	2.83	3,075	3.08	76	4.80	119	2.04	63	2.82	86
Total --		842		1,083		5,679		9,135		300		449		203		287
Total --		4,239		5,409		32,902		49,688		1,451		2,175		1,019		1,423
<u>Apparel</u>																
<u>Apparel Made From Purchased Materials</u>	1.46	3,962	1.89	5,119	1.38	45,580	1.88	62,153	1.65	1,426	2.47	2,141	1.50	1,029	2.08	1,427
<u>Misc. Fabricated Textile Products</u>																

Table A.9. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced
Curtains and Draperies	1.32	17	1.81	24	1.19	318	1.54	411	1.40	7	2.15	11	1.25	6	1.68	9
Housefurnishings, N.E.C	1.33	96	1.73	125	1.37	918	1.99	1,329	1.44	40	2.09	58	1.49	23	2.15	33
Textile Bags	1.23	46	1.71	64	1.22	493	1.86	748	1.25	23	1.84	34	1.20	16	1.66	22
Canvas Products	1.25	45	1.79	65	1.20	563	1.80	842	1.23	26	1.79	38	1.18	17	1.65	24
Pleating and Stitching	1.06	14	1.64	21	1.04	244	1.49	348	1.04	12	1.44	16	1.05	6	1.53	8
Automotive and Apparel Trimmings	1.37	322	1.76	414	1.43	2,902	2.07	4,218	1.55	114	2.32	170	1.41	83	1.95	115
Schiffi Machine Embroideries	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Fabricated Textile Products, N.E.C.	1.31	392	1.73	521	1.49	2,908	2.42	4,724	1.37	186	1.94	264	1.43	95	2.09	139
Total --		932		1,233		8,345		12,620		408		593		246		349
<i>Total --</i>		4,895		6,352		53,925		74,774		1,834		2,733		1,274		1,775
<i>Leather</i>																
<u>Leather Tanning and Finishing</u>	1.55	82	1.82	96	1.85	474	2.65	682	2.37	18	3.52	27	2.19	12	3.13	17
<u>Footwear Cut Stock</u>	1.25	22	1.55	27	1.24	171	1.76	243	1.25	7	1.77	11	1.31	4	1.90	6
<u>Footwear, Except Rubber</u>																
House Slippers	1.02	0 ^b	1.44	1	1.09	1	3.28	3	1.01	0 ^b	1.27	0 ^b	1.12	0 ^b	3.54	0 ^b
Shoes, Except Rubber	1.31	228	1.74	303	1.24	3,215	1.64	4,269	1.31	98	1.92	144	1.29	65	1.80	90
Total --		228		303		3,216		4,272		99		144		65		90
<u>Leather Gloves and Mittens</u>	1.31	8	1.77	11	1.12	156	1.42	197	1.24	4	1.85	5	1.18	3	1.58	4
<u>Luggage</u>	1.22	72	1.68	100	1.24	664	1.97	1,052	1.19	42	1.66	59	1.23	20	1.81	29
<u>Handbags & Other Personal Leather Goods</u>																
Women's Handbags and Purses	1.03	1	1.64	1	1.01	12	1.37	16	1.01	0	1.40	1	1.02	0 ^b	1.46	0 ^b
Personal Leather Goods	1.11	0 ^b	1.56	0 ^b	1.06	1	1.35	1	1.07	0 ^b	1.42	0 ^b	1.15	0 ^b	1.88	0 ^b
Total --		1		1		13		18		1		1		0		0
<u>Leather Goods, N.E.C</u>	1.17	26	1.71	37	1.07	440	1.48	607	1.10	17	1.55	25	1.10	10	1.55	14

Table A.9. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced
<i>Total --</i>		438		575		5,133		7,070		188		272		113		160
<i>Secondary Agriculture Total --</i>		24,239		30,704		169,783		262,959		8,384		12,383		5,114		7,380
<i>Agriculture Total --</i>		30,420		38,639		317,187		435,809		10,655		15,731		6,116		8,996
<i>Forest & Forestry Products, Logging</i>																
<u>Forest Products</u>	1.47	107	1.87	136	1.19	2,272	1.38	3,130	1.80	44	2.53	61	5.64	11	11.01	21
<u>Forestry Products</u>	1.33	235	1.68	297	2.18	1,123	3.03	3,395	1.57	85	2.30	125	4.50	24	9.12	48
<u>Logging Camps and Logging Contractors</u>	1.19	209	1.49	262	1.34	1,206	1.96	2,365	1.29	76	1.84	108	1.45	31	2.29	49
<i>Forest/Forestry Products, Logging Total --</i>		550		695		4,602		8,891		205		294		66		119
<i>Primary Forestry</i>																
<u>Sawmills & Planing Mills</u>																
Sawmills and Planing Mills, General	1.32	833	1.65	1,042	1.50	6,382	2.20	9,378	1.67	261	2.48	389	1.64	153	2.41	225
Hardwood Dimension and Flooring Mills	1.47	624	2.06	875	1.31	8,023	1.90	11,618	1.42	307	2.14	461	1.36	196	1.95	281
Special Product Sawmills, N.E.C	1.17	6	1.65	9	1.10	102	1.50	139	1.17	4	1.68	5	1.17	2	1.73	3
<i>Total --</i>		1,464		1,926		14,508		21,136		572		855		351		509
<u>Pulp Mills</u>	1.49	396	1.90	503	3.13	1,796	5.80	3,326	1.76	145	2.55	210	1.95	75	2.91	112
<u>Paper Mills, Except Building Paper</u>	1.40	1,885	1.87	2,510	1.96	10,796	3.59	19,782	1.54	795	2.28	1,178	1.46	505	2.08	720
<u>Paperboard Mills</u>	1.45	520	1.87	670	2.85	2,418	5.40	4,581	1.72	197	2.52	289	1.73	112	2.54	164
<i>Primary Forestry Total --</i>		4,265		5,608		29,518		48,825		1,710		2,532		1,043		1,503
<i>Secondary Forestry</i>																
<u>Millwork, Veneer, Plywood, & Struct. Wood</u>																
Millwork	1.33	257	1.82	352	1.30	2,880	1.92	4,257	1.48	112	2.25	171	1.39	75	1.99	108
Wood Kitchen Cabinets	1.28	205	1.80	290	1.20	2,845	1.71	4,056	1.32	103	1.98	155	1.28	65	1.84	93

Table A.9. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced
Veneer and Plywood	1.26	18	1.63	24	1.32	162	1.94	239	1.47	7	2.20	10	1.39	4	2.00	6
Structural Wood Members, N.E.C	1.30	124	1.73	165	1.35	1,170	2.05	1,771	1.49	51	2.24	76	1.42	32	2.06	46
Total --		604		831		7,057		10,323		273		412		176		253
<u>Wood Containers</u>																
Wood Containers	1.27	36	1.75	49	1.21	480	1.70	675	1.36	16	2.05	25	1.31	10	1.89	15
Wood Pallets and Skids	1.28	121	1.77	166	1.20	1,880	1.62	2,539	1.40	55	2.12	83	1.34	36	1.92	51
Total --		156		216		2,360		3,214		71		108		46		66
<u>Wood Buildings & Mobile Homes</u>																
Mobile Homes	1.24	675	1.68	916	1.28	6,106	2.01	9,562	1.29	296	1.94	444	1.28	183	1.85	265
Prefabricated Wood Buildings	1.30	120	1.74	160	1.37	1,142	2.07	1,725	1.47	49	2.22	73	1.40	32	2.00	46
Total --		794		1,076		7,248		11,287		345		517		215		310
<u>Miscellaneous Wood Products</u>																
Wood Preserving	1.38	89	1.69	109	2.06	500	3.25	790	2.20	26	3.26	38	2.42	14	3.67	21
Reconstituted Wood Products	1.40	67	1.80	87	1.79	397	3.02	671	1.55	27	2.23	39	1.74	13	2.65	19
Wood Products, N.E.C	1.29	180	1.79	250	1.23	2,375	1.75	3,379	1.37	86	2.04	129	1.33	54	1.92	77
Gum and Wood Chemicals	1.32	42	1.70	54	2.14	167	4.30	336	1.36	20	1.84	27	1.84	6	3.10	10
Total --		379		500		3,439		5,175		159		233		86		127
<u>Household Furniture</u>																
Wood Household Furniture	1.37	524	1.86	712	1.33	6,027	1.93	8,729	1.50	229	2.26	344	1.41	153	2.00	217
Upholstered Household Furniture	1.33	1,209	1.78	1,620	1.34	12,822	1.95	18,743	1.47	486	2.24	738	1.37	346	1.93	486
Mattresses and Bedspings	1.33	170	1.75	224	1.41	1,609	2.09	2,389	1.47	67	2.21	100	1.40	46	1.95	65
Wood TV and Radio Cabinets	1.38	133	1.83	177	1.35	1,222	2.06	1,864	1.53	52	2.34	79	1.37	38	1.92	53
Household Furniture, N.E.C	1.49	74	2.07	103	1.25	906	1.82	1,318	1.47	33	2.24	51	1.32	25	1.82	35
Total --		2,110		2,836		22,587		33,043		866		1,312		608		855
<u>Wood Office Furniture</u>																
	1.31	15	1.87	22	1.28	180	1.95	276	1.35	8	2.07	12	1.25	6	1.75	8
<u>Public Building Furniture</u>																
	1.32	896	1.71	1,159	1.64	6,175	2.65	9,977	1.60	329	2.38	491	1.55	203	2.25	293

Table A.9. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced
<u>Wood Partitions and Fixtures</u>	1.29	78	1.84	111	1.23	1,009	1.82	1,488	1.32	39	2.01	60	1.23	29	1.71	40
<u>Miscellaneous</u>																
Blinds, Shades, and Drapery Hardware	1.30	38	1.76	52	1.33	380	2.01	574	1.41	17	2.08	25	1.35	11	1.93	15
Furniture and Fixtures, N.E.C	1.02	294	1.20	348	1.03	1,545	1.55	2,313	1.04	73	1.51	106	1.04	43	1.48	61
Total --		332		400		1,925		2,887		90		131		53		76
<u>Paperboard Containers and Boxes</u>	1.28	1,510	1.66	1,954	1.54	10,108	2.51	16,548	1.54	530	2.34	804	1.39	385	1.94	539
<u>Converted Paper & Paperboard Products</u>																
Paper Coated & Laminated Packaging	1.34	373	1.74	487	1.69	2,175	2.97	3,819	1.48	147	2.18	217	1.43	92	2.04	132
Paper Coated & Laminated N.E.C.	1.35	67	1.74	87	1.58	450	2.56	729	1.54	25	2.27	37	1.51	15	2.17	22
Bags, Paper	1.48	163	1.90	210	1.68	1,079	2.72	1,754	1.68	60	2.49	89	1.60	38	2.27	54
Die-cut Paper and Board	1.25	16	1.68	22	1.37	130	2.21	210	1.35	7	2.00	10	1.31	4	1.88	6
Sanitary Paper Products	1.33	634	1.66	788	2.87	2,546	5.36	4,751	1.60	225	2.26	319	2.04	98	3.15	151
Envelopes	1.33	109	1.75	144	1.45	897	2.27	1,403	1.54	41	2.34	63	1.36	31	1.89	43
Stationery Products	1.29	87	1.66	111	1.67	526	2.80	879	1.47	34	2.14	49	1.53	18	2.26	27
Converted Paper Products, N.E.C	1.35	736	1.75	951	1.59	5,337	2.51	8,447	1.61	277	2.38	409	1.55	169	2.23	244
Total --		2,185		2,800		13,140		21,993		816		1,192		466		679
Secondary Forestry Total --		9,060		11,905		75,228		116,210		3,525		5,272		2,273		3,247
Forestry Total --		13,875		18,208		109,347		173,926		5,440		8,097		3,381		4,869
Agriculture & Forestry Total --		44,295		56,848		426,534		609,735		16,095		23,828		9,497		13,865

^a Totals may not add due to rounding.

^b Values of zero are nonzero values less than 1.

Table A.10. Memphis Region: Total Impacts from Agriculture and Forestry ^a

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced
<i>Agricultural Inputs</i>																
<i>Agricultural Chemicals</i>																
Nitrogenous and Phosphatic Fertilizers	1.30	277	1.68	357	3.16	868	7.33	2,015	1.38	118	1.96	168	1.40	67	1.99	95
Fertilizers, Mixing Only	1.45	3	1.74	4	1.84	19	2.77	29	2.47	1	3.61	1	2.07	1	2.90	1
Agricultural Chemicals, N.E.C	1.38	164	1.77	210	2.75	655	5.49	1,309	1.43	77	1.96	105	1.75	32	2.64	48
Total --		444		571		1,543		3,352		196		275		100		144
<i>Agricultural Machinery</i>																
Farm Machinery and Equipment	1.49	22	1.85	27	1.71	156	2.53	232	1.87	8	2.68	11	1.92	4	2.76	6
Lawn and Garden Equipment	1.52	867	1.86	1,065	2.09	4,666	3.37	7,508	1.81	294	2.56	418	2.04	155	2.96	225
Total --		889		1,093		4,823		7,740		302		428		159		231
<i>Agricultural Inputs Total --</i>		1,333		1,664		6,365		11,092		498		703		259		375
<i>Primary Agriculture</i>																
Dairy Farm Products	1.42	14	1.66	17	1.56	154	1.92	190	2.89	3	4.25	5	3.81	2	6.04	2
Poultry and Eggs	1.35	8	1.53	9	1.44	85	1.69	100	3.44	1	5.05	2	4.65	1	7.14	1
Ranch Fed Cattle	1.65	90	1.91	104	1.45	1,798	1.61	2,008	3.73	20	5.45	29	4.39	9	7.05	14
Range Fed Cattle	1.38	5	1.58	6	1.24	110	1.36	121	2.64	1	3.88	1	3.20	0 ^b	5.24	1
Cattle Feedlots	1.37	4	1.60	5	1.40	49	1.69	60	2.72	1	3.99	1	3.07	0 ^b	4.92	1
Sheep, Lambs and Goats	1.36	0 ^b	1.57	0 ^b	1.05	29	1.07	30	2.96	0 ^b	4.34	0 ^b	3.39	0 ^b	5.44	0 ^b
Hogs, Pigs and Swine	1.73	81	1.98	92	1.62	1,263	1.84	1,435	4.36	16	6.33	24	5.08	7	8.10	12
Other Meat Animal Products	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Miscellaneous Livestock	1.44	7	1.67	8	1.06	517	1.09	534	2.60	2	3.77	2	2.83	1	4.30	1
Cotton	1.51	308	1.84	377	1.69	3,331	2.21	4,352	2.64	99	3.80	143	5.38	35	9.31	61
Food Grains	1.57	46	1.90	56	1.17	1,167	1.31	1,311	2.87	15	4.06	21	12.70	4	23.14	8
Feed Grains	1.48	149	1.78	180	1.30	2,454	1.54	2,918	2.51	46	3.58	66	10.45	14	19.22	26
Hay and Pasture	1.48	51	1.79	61	1.07	2,776	1.14	2,934	2.58	16	3.69	22	7.57	5	13.63	9
Grass Seeds	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Tobacco	1.53	5	1.79	6	1.29	84	1.50	97	4.25	1	6.08	2	4.00	1	6.32	1
Fruits	1.59	2	1.93	2	1.26	39	1.43	45	3.03	0 ^b	4.44	1	2.85	0 ^b	4.22	0 ^b

Table A.10. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced
Tree Nuts	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Vegetables	1.55	11	1.89	14	1.37	212	1.61	249	2.81	3	4.09	5	3.60	2	5.62	3
Sugar Crops	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Miscellaneous Crops	1.41	1	1.68	1	1.09	37	1.14	38	2.78	0 ^b	4.12	0 ^b	4.19	0 ^b	6.80	0 ^b
Oil Bearing Crops	1.60	321	1.96	394	1.31	6,417	1.53	7,503	2.61	111	3.69	158	6.37	33	11.72	60
Greenhouse and Nursery Products	1.46	33	1.81	41	1.31	560	1.57	674	1.81	12	2.54	17	2.15	5	3.30	8
Agricultural, Forestry, Fishery Services	1.20	60	1.73	86	1.08	1,780	1.31	2,163	1.18	35	1.74	51	1.16	21	1.66	31
Landscape and Horticultural Services	1.15	126	1.75	192	1.05	4,735	1.26	5,685	1.10	91	1.61	132	1.09	50	1.60	73
Primary Agricultural Total --		1,322		1,652		27,599		32,446		474		683		191		311
Secondary Agriculture																
<u>Food & Kindred Products</u>																
Meat Packing Plants	1.11	211	1.27	242	1.40	740	2.26	1,193	1.36	42	2.01	61	1.26	32	1.70	43
Sausages and Other Prepared Meats	1.54	112	1.83	132	1.84	609	2.74	907	1.99	29	2.89	42	1.82	20	2.49	27
Poultry Processing	1.10	2	1.36	3	1.14	16	1.68	23	1.17	1	1.71	1	1.12	1	1.47	1
Total --		325		377		1,365		2,124		71		104		52		71
<u>Dairy Products</u>																
Creamery Butter	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Cheese, Natural and Processed	1.41	70	1.62	80	2.58	268	3.99	415	2.58	15	3.70	21	2.60	8	3.74	12
Condensed and Evaporated Milk	1.48	52	1.73	61	2.48	229	3.86	357	2.43	13	3.51	18	2.12	8	2.93	11
Ice Cream and Frozen Desserts	1.54	48	1.87	58	2.33	242	3.78	392	1.85	16	2.60	23	2.16	8	3.13	12
Fluid Milk	1.31	152	1.54	179	2.08	636	3.35	1,023	1.90	38	2.75	55	1.75	25	2.43	34
Total --		322		378		1,374		2,187		81		117		49		70
<u>Canned, Frozen, & Preserved Fruit</u>																
Canned Specialties	1.44	17	1.73	20	2.72	82	4.39	132	1.84	6	2.53	8	2.66	3	3.97	4
Canned Fruits and Vegetables	1.44	46	1.81	58	1.95	297	3.09	470	1.81	18	2.59	25	1.74	11	2.44	15
Dehydrated Food Products	1.24	2	1.61	2	1.69	8	3.14	16	1.22	1	1.61	1	1.49	0 ^b	2.35	0 ^b
Pickles, Sauces, and Salad Dressings	1.33	7	1.63	8	2.02	31	3.42	53	1.41	3	1.87	4	2.07	1	3.25	1
Frozen Fruits, Juices and Vegetables	1.51	216	1.85	266	1.98	1,461	2.96	2,184	2.29	70	3.32	101	1.98	46	2.74	64

Table A.10. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced
Frozen Specialties	1.39	403	1.77	511	1.72	2,399	2.83	3,951	1.46	169	2.05	237	1.49	96	2.09	134
Total --		691		866		4,278		6,806		266		376		157		219
<u>Grain Mill Products</u>																
Flour and Other Grain Mill Products	1.48	4	1.87	5	2.96	20	5.34	36	2.12	2	3.08	2	1.90	1	2.67	1
Cereal Preparations	1.58	515	1.97	644	3.97	2,570	6.84	4,432	2.22	184	3.20	265	2.06	118	2.87	164
Rice Milling	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Blended and Prepared Flour	1.53	61	1.85	74	2.81	303	4.53	489	2.97	17	4.35	25	2.41	11	3.39	16
Wet Corn Milling	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Dog, Cat, and Other Pet Food	1.56	60	1.87	72	2.87	291	4.59	465	2.42	17	3.47	25	2.33	11	3.29	15
Prepared Feeds, N.E.C	1.57	252	1.86	298	2.86	975	4.83	1,645	2.50	66	3.61	95	2.18	41	3.07	57
Total --		892		1,093		4,159		7,067		285		412		182		254
<u>Bakery Products</u>																
Bread, Cake, and Related Products	1.35	196	1.75	254	1.55	1,535	2.39	2,366	1.46	87	2.07	123	1.38	56	1.89	76
Cookies and Crackers	1.51	0 ^b	1.82	0 ^b	1.60	2	2.12	2	2.18	0 ^b	3.07	0 ^b	2.55	0 ^b	3.66	0 ^b
Total --		197		255		1,536		2,368		87		123		56		76
<u>Sugar & Confectionary Products</u>																
Sugar	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Confectionery Products	1.45	108	1.80	135	2.01	653	3.19	1,033	1.71	42	2.39	59	1.93	21	2.78	31
Chocolate and Cocoa Products	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Chewing Gum	1.51	93	1.85	114	2.26	554	3.50	857	2.10	31	2.99	45	2.15	18	3.04	26
Salted and Roasted Nuts & Seeds	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --		202		249		1,206		1,890		73		103		39		56
<u>Fats & Oils</u>																
Cottonseed Oil Mills	1.57	131	1.87	156	2.98	601	4.77	964	3.29	34	4.82	49	2.53	22	3.56	31
Soybean Oil Mills	1.50	152	1.73	175	7.35	513	12.34	862	6.81	32	10.01	47	8.10	17	12.23	26
Vegetable Oil Mills, N.E.C	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Animal and Marine Fats and Oils	1.39	10	1.66	12	1.90	49	3.04	78	1.58	4	2.15	5	1.91	1	2.87	2
Shortening and Cooking Oils	1.64	644	1.95	765	3.37	2,225	6.03	3,976	1.96	189	2.75	265	2.22	97	3.22	141

Table A.10. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type	Type	Type	Type	Type	Type	Type	Type	Type	Type	Type	Type	Type	Type	Type	Type
	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced
Total --		937		1,108		3,388		5,879		258		366		138		200
<u>Beverages</u>																
Malt Beverages	1.30	318	1.71	417	2.18	1,436	4.54	2,985	1.41	134	2.09	199	1.77	54	3.11	95
Malt	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Wines, Brandy, and Brandy Spirits	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Distilled Liquor, Except Brandy	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Bottled and Canned Soft Drinks & Water	1.39	392	1.67	471	2.36	1,966	3.74	3,113	2.03	116	2.90	166	2.02	69	2.86	98
Flavoring Extracts and Syrups, N.E.C.	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --		710		888		3,401		6,098		250		365		123		193
<u>Miscellaneous Food Preparations</u>																
Canned and Cured Sea Foods	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Prepared Fresh Or Frozen Fish Or Seafood	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Roasted Coffee	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Potato Chips & Similar Snacks	1.36	438	1.70	546	2.12	2,153	3.64	3,700	1.51	179	2.08	246	1.73	85	2.51	123
Manufactured Ice	1.32	2	1.82	3	1.16	44	1.47	57	1.29	1	1.83	2	1.23	1	1.64	1
Macaroni and Spaghetti	1.54	21	1.92	26	1.90	153	2.82	228	2.29	7	3.36	10	1.82	5	2.47	7
Food Preparations, N.E.C	1.40	24	1.71	30	1.74	164	2.55	240	1.89	8	2.67	11	1.96	5	2.78	6
Total --		485		604		2,515		4,225		195		270		96		138
Total --		4,761		5,817		23,223		38,643		1,567		2,236		892		1,277
<u>Tobacco</u>																
Cigarettes	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Cigars	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Chewing and Smoking Tobacco	1.52	369	1.89	459	4.67	1,499	8.62	2,766	1.47	160	1.98	216	1.94	63	2.89	95
Tobacco Stemming and Redrying	1.74	72	1.99	82	3.81	308	5.65	457	4.40	15	6.35	21	4.52	8	6.48	12
Total --		441		541		1,808		3,223		175		237		72		107
<u>Textiles</u>																
<u>Broadwoven Fabric Mills and Finishing</u>	1.31	22	1.62	27	1.36	207	1.86	283	1.61	7	2.33	11	1.44	5	1.94	7

Table A.10. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced
<u>Narrow Fabric Mills</u>	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
<u>Knitting Mills</u>																
Women's Hosiery, Except Socks	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Hosiery, N.E.C	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Knit Outerwear Mills	1.52	3	1.75	4	1.45	30	1.77	37	2.72	1	3.97	1	2.26	0 ^b	3.06	1
Knit Underwear Mills	1.24	0 ^b	1.75	0 ^b	1.13	4	1.52	5	1.16	0 ^b	1.68	0 ^b	1.13	0 ^b	1.49	0 ^b
Knit Fabric Mills	1.59	466	1.91	558	1.87	2,949	2.71	4,274	2.01	126	2.94	184	1.80	93	2.42	126
Knitting Mills, N.E.C.	1.38	0 ^b	1.68	1	1.26	5	1.62	6	1.63	0 ^b	2.37	0 ^b	1.51	0 ^b	2.00	0 ^b
Total --		470		562		2,988		4,323		127		185		94		127
<u>Yarn/Thread Mills</u>																
Yarn Mills and Finishing Of Textiles, N.E.C.	1.32	54	1.65	67	1.47	421	2.15	615	1.54	19	2.22	28	1.43	13	1.94	18
Thread Mills	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --		54		67		421		615		19		28		13		18
<u>Carpets and Rugs</u>	1.30	1	1.59	1	1.57	6	2.36	9	1.54	0 ^b	2.19	0 ^b	1.48	0 ^b	2.03	0 ^b
<u>Miscellaneous Textile Goods</u>																
Coated Fabrics, Not Rubberized	1.50	2	1.83	2	1.86	12	2.78	18	2.19	1	3.21	1	1.76	0 ^b	2.40	1
Tire Cord and Fabric	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Nonwoven Fabrics	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Cordage and Twine	1.41	9	1.82	12	1.52	74	2.34	114	1.60	4	2.35	6	1.38	3	1.84	4
Textile Goods, N.E.C	1.51	63	1.90	79	1.74	538	2.51	776	2.19	20	3.31	31	1.61	18	2.14	23
Total --		74		94		623		907		25		37		21		28
Total --		621		752		4,245		6,137		179		261		133		180
<u>Apparel</u>																
<u>Apparel Made From Purchased Materials</u>	1.43	835	1.78	1,042	1.33	9,829	1.74	12,810	1.64	289	2.38	420	1.48	208	2.00	281
<u>Misc. Fabricated Textile Products</u>																

Table A.10. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type		Type		Type		Type		Type		Type		Type		Type	
	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced
Curtains and Draperies	1.32	11	1.73	15	1.21	224	1.47	273	1.45	4	2.16	7	1.29	4	1.70	5
Housefurnishings, N.E.C	1.27	11	1.57	14	1.27	119	1.69	157	1.46	4	2.05	6	1.49	2	2.09	3
Textile Bags	1.21	13	1.59	18	1.18	167	1.59	227	1.27	6	1.82	9	1.21	4	1.64	6
Canvas Products	1.20	1	1.67	1	1.17	8	1.69	12	1.19	0 ^b	1.68	1	1.15	0 ^b	1.55	0 ^b
Pleating and Stitching	1.05	0 ^b	1.55	0 ^b	1.02	1	1.27	1	1.04	0 ^b	1.39	0 ^b	1.04	0 ^b	1.46	0 ^b
Automotive and Apparel Trimmings	1.29	72	1.60	89	1.33	681	1.80	924	1.55	24	2.24	34	1.40	17	1.89	23
Schiffi Machine Embroideries	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Fabricated Textile Products, N.E.C.	1.32	34	1.65	43	1.40	306	1.96	428	1.49	14	2.06	19	1.56	7	2.23	10
Total --		143		179		1,506		2,023		53		75		35		48
Total --		978		1,222		11,335		14,833		342		495		243		328
Leather																
<u>Leather Tanning and Finishing</u>	1.41	1	1.64	1	1.65	5	2.37	7	1.98	0 ^b	2.83	0 ^b	1.85	0 ^b	2.55	0 ^b
<u>Footwear Cut Stock</u>	1.13	1	1.38	1	1.14	8	1.61	11	1.16	0 ^b	1.59	1	1.20	0 ^b	1.68	0 ^b
<u>Footwear, Except Rubber</u>																
House Slippers	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Shoes, Except Rubber	1.21	36	1.51	44	1.15	594	1.40	721	1.28	13	1.81	19	1.25	9	1.69	12
Total --		36		44		594		721		13		19		9		12
<u>Leather Gloves and Mittens</u>	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
<u>Luggage</u>	1.18	2	1.57	3	1.17	25	1.65	35	1.18	1	1.60	2	1.22	1	1.73	1
<u>Handbags & Other Personal Leather Goods</u>																
Women's Handbags and Purses	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Personal Leather Goods	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --		0		0		0		0		0		0		0		0

Table A.10. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced
<u>Leather Goods, N.E.C</u>	1.11	1	1.57	2	1.05	24	1.40	32	1.08	1	1.47	1	1.07	1	1.47	1
Total --		41		52		655		806		16		23		10		14
Secondary Agriculture Total --		6,841		8,383		41,266		63,642		2,280		3,252		1,351		1,906
Agriculture Total --		9,497		11,699		75,230		107,181		3,252		4,638		1,800		2,593
Forest & Forestry Products, Logging																
<u>Forest Products</u>	1.57	23	1.90	28	1.33	395	1.56	465	2.70	8	3.79	11	10.35	2	17.94	4
<u>Forestry Products</u>	1.30	47	1.64	59	2.27	437	3.25	626	1.45	20	2.04	28	6.66	4	14.66	9
<u>Logging Camps and Logging Contractors</u>	1.18	55	1.45	68	1.32	417	1.89	599	1.27	20	1.77	28	1.43	8	2.20	13
Forest/Forestry Products, Logging Total --		126		156		1,249		1,690		48		66		15		26
Primary Forestry																
<u>Sawmills and Planing Mills</u>																
Sawmills and Planing Mills, General	1.34	265	1.63	322	1.50	2,047	2.10	2,866	1.74	81	2.51	116	1.72	47	2.45	67
Hardwood Dimension and Flooring Mills	1.48	166	2.02	226	1.33	2,036	1.88	2,890	1.42	83	2.05	120	1.36	53	1.89	74
Special Product Sawmills, N.E.C	1.16	3	1.59	4	1.12	38	1.56	53	1.15	2	1.60	2	1.16	1	1.63	1
Total --		434		552		4,120		5,808		165		239		101		142
<u>Pulp Mills</u>	1.50	370	1.85	458	3.10	1,648	5.47	2,910	1.74	136	2.45	190	1.94	70	2.81	101
<u>Paper Mills, Except Building Paper</u>	1.40	1,059	1.81	1,365	1.94	6,052	3.34	10,447	1.54	441	2.21	632	1.47	281	2.03	389
<u>Paperboard Mills</u>	1.43	359	1.81	454	2.82	1,607	5.19	2,962	1.64	140	2.33	199	1.66	80	2.36	113
Primary Forestry Total --		2,222		2,829		13,427		22,128		882		1,260		532		745
Secondary Forestry																
<u>Millwork, Veneer, Plywood, & Struct. Wood</u>																
Millwork	1.33	164	1.77	218	1.29	1,811	1.85	2,591	1.47	72	2.17	106	1.38	49	1.91	67

Table A.10. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced
Wood Kitchen Cabinets	1.31	36	1.79	49	1.20	492	1.66	679	1.35	18	1.96	26	1.30	11	1.81	16
Veneer and Plywood	1.34	19	1.69	24	1.37	167	1.96	238	1.57	7	2.27	10	1.48	4	2.07	6
Structural Wood Members, N.E.C	1.35	4	1.71	5	1.35	39	1.86	55	1.69	1	2.46	2	1.63	1	2.33	1
Total --		223		296		2,510		3,563		99		145		65		91
<u>Wood Containers</u>																
Wood Containers	1.33	25	1.75	33	1.22	349	1.62	464	1.44	11	2.10	16	1.39	7	1.96	10
Wood Pallets and Skids	1.29	56	1.73	75	1.20	858	1.58	1,133	1.40	26	2.05	38	1.34	17	1.86	24
Total --		82		109		1,207		1,597		37		54		24		33
<u>Wood Buildings & Mobile Homes</u>																
Mobile Homes	1.23	156	1.64	208	1.27	1,348	1.96	2,077	1.27	71	1.84	103	1.26	44	1.76	62
Prefabricated Wood Buildings	1.29	1	1.72	1	1.39	8	2.20	13	1.37	0 ^b	1.99	1	1.30	0 ^b	1.80	0 ^b
Total --		157		209		1,355		2,089		72		104		44		62
<u>Miscellaneous Wood Products</u>																
Wood Preserving	1.40	3	1.67	3	2.03	16	3.03	25	2.48	1	3.57	1	2.81	0 ^b	4.13	1
Reconstituted Wood Products	1.41	25	1.78	32	1.83	138	3.10	233	1.49	11	2.06	15	1.63	5	2.39	7
Wood Products, N.E.C	1.28	43	1.74	59	1.23	529	1.75	752	1.33	22	1.92	32	1.29	14	1.79	19
Gum and Wood Chemicals	1.33	7	1.66	9	2.05	30	3.75	54	1.37	3	1.82	4	1.94	1	3.13	2
Total --		79		103		712		1,063		37		52		20		29
<u>Household Furniture</u>																
Wood Household Furniture	1.38	35	1.82	46	1.33	399	1.85	558	1.52	15	2.21	22	1.41	10	1.95	14
Upholstered Household Furniture	1.32	79	1.70	102	1.31	856	1.82	1,186	1.49	31	2.19	45	1.39	22	1.90	30
Mattresses and Bedspings	1.32	62	1.68	79	1.39	595	1.96	841	1.48	24	2.14	35	1.39	16	1.89	22
Wood TV and Radio Cabinets	1.45	1	1.83	1	1.35	9	1.90	13	1.72	0 ^b	2.54	1	1.50	0 ^b	2.06	0 ^b
Household Furniture, N.E.C	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --		177		229		1,860		2,598		70		102		48		66
<u>Wood Office Furniture</u>																
Wood Office Furniture	1.34	5	1.85	7	1.30	63	1.91	92	1.38	3	2.03	4	1.27	2	1.71	3
<u>Public Building Furniture</u>																
Public Building Furniture	1.34	173	1.67	216	1.64	1,254	2.43	1,863	1.74	59	2.52	86	1.69	36	2.40	51

Table A.10. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced
<u>Wood Partitions and Fixtures</u>	1.30	34	1.81	47	1.24	408	1.81	595	1.32	18	1.93	26	1.22	13	1.64	18
<u>Miscellaneous</u>																
Blinds, Shades, and Drapery Hardware	1.31	37	1.72	48	1.33	360	1.93	523	1.42	17	2.03	24	1.36	10	1.88	14
Furniture and Fixtures, N.E.C	1.02	25	1.15	28	1.03	140	1.38	186	1.05	5	1.48	7	1.05	3	1.46	4
Total --		61		76		499		709		22		31		13		18
<u>Paperboard Containers and Boxes</u>	1.28	368	1.63	467	1.52	2,385	2.44	3,818	1.51	134	2.21	196	1.36	98	1.85	133
<u>Converted Paper & Paperboard Products</u>																
Paper Coated & Laminated Packaging	1.36	258	1.73	329	1.70	1,472	2.87	2,485	1.49	103	2.13	147	1.44	65	2.00	90
Paper Coated & Laminated N.E.C.	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Bags, Paper	1.47	78	1.85	99	1.66	496	2.65	791	1.62	30	2.31	43	1.54	19	2.13	26
Die-cut Paper and Board	1.27	1	1.64	1	1.36	6	2.01	9	1.42	0 ^b	2.04	0 ^b	1.38	0 ^b	1.92	0 ^b
Sanitary Paper Products	1.36	637	1.66	776	2.89	2,525	5.15	4,509	1.63	228	2.25	314	2.11	100	3.15	149
Envelopes	1.33	41	1.72	53	1.45	326	2.22	501	1.50	16	2.21	24	1.34	12	1.80	17
Stationery Products	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Converted Paper Products, N.E.C	1.33	256	1.70	326	1.57	1,771	2.46	2,777	1.53	102	2.19	146	1.48	63	2.06	87
Total --		1,271		1,584		6,597		11,072		479		674		259		369
Secondary Forestry Total --		2,631		3,342		18,851		29,059		1,028		1,472		623		872
Forestry Total --		4,978		6,327		33,528		52,877		1,958		2,799		1,170		1,644
Agriculture & Forestry Total --		14,475		18,025		108,758		160,058		5,210		7,437		2,970		4,237

^a Totals may not add due to rounding.

^b Values of zero are nonzero values less than 1.

Table A.11. Nashville Region: Total Impacts from Agriculture and Forestry ^a

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type		Type		Type		Type		Type		Type		Type			
	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced
<i>Agricultural Inputs</i>																
<u>Agricultural Chemicals</u>																
Nitrogenous and Phosphatic Fertilizers	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Fertilizers, Mixing Only	1.39	29	1.69	36	1.88	171	2.86	261	2.26	8	3.40	12	1.93	5	2.74	7
Agricultural Chemicals, N.E.C	1.38	91	1.79	117	2.60	395	5.00	761	1.49	40	2.08	56	1.83	17	2.81	26
Total --		120		153		567		1,021		48		67		22		33
<u>Agricultural Machinery</u>																
Farm Machinery and Equipment	1.39	16	1.76	21	1.63	116	2.47	177	1.72	6	2.50	8	1.77	3	2.57	5
Lawn and Garden Equipment	1.32	342	1.67	434	1.87	1,773	3.21	3,049	1.52	127	2.19	182	1.67	65	2.46	96
Total --		359		455		1,889		3,225		132		190		68		101
<i>Agricultural Inputs Total --</i>		478		607		2,456		4,247		180		258		90		134
<i>Primary Agriculture</i>																
Dairy Farm Products	1.37	139	1.70	172	1.73	2,516	2.06	2,991	1.97	40	2.97	61	2.38	16	4.09	27
Poultry and Eggs	1.27	211	1.46	243	1.61	1,904	2.00	2,359	2.51	38	3.79	58	3.43	18	5.54	29
Ranch Fed Cattle	1.60	331	1.94	402	1.48	10,794	1.62	11,811	2.53	87	3.81	131	2.84	35	4.87	60
Range Fed Cattle	1.51	21	1.82	25	1.42	722	1.54	784	2.15	5	3.26	8	2.45	2	4.32	3
Cattle Feedlots	1.38	16	1.66	19	1.99	209	2.44	256	2.29	4	3.45	6	2.54	2	4.33	3
Sheep, Lambs and Goats	1.36	1	1.65	1	1.07	162	1.08	165	2.07	0 ^b	3.14	0 ^b	2.26	0 ^b	3.86	0 ^b
Hogs, Pigs and Swine	1.46	35	1.73	41	1.41	968	1.54	1,062	2.54	8	3.79	12	2.82	3	4.76	6
Other Meat Animal Products	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Miscellaneous Livestock	1.33	27	1.64	33	1.08	2,817	1.11	2,904	1.76	8	2.62	12	1.83	4	2.91	6
Cotton	1.30	4	1.78	6	1.21	76	1.56	98	1.38	2	2.00	3	1.90	1	3.76	1
Food Grains	1.37	18	1.80	23	1.08	709	1.20	787	1.62	8	2.31	11	5.09	2	11.52	3
Feed Grains	1.34	55	1.75	71	1.13	1,653	1.29	1,886	1.60	23	2.30	33	4.90	5	10.95	11
Hay and Pasture	1.37	206	1.76	264	1.05	16,929	1.10	17,753	1.77	78	2.57	113	4.37	19	9.00	40
Grass Seeds	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Tobacco	1.40	154	1.73	189	1.10	5,829	1.20	6,339	2.24	48	3.26	70	2.20	21	3.54	33
Fruits	1.40	2	1.86	3	1.11	102	1.23	113	1.66	1	2.50	1	1.56	1	2.28	1

Table A.11. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced
Tree Nuts	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Vegetables	1.49	20	1.89	25	1.18	643	1.32	719	2.13	7	3.17	10	2.69	3	4.40	5
Sugar Crops	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Miscellaneous Crops	1.32	3	1.68	4	1.07	230	1.13	242	1.72	1	2.58	2	2.27	0 ^b	3.97	1
Oil Bearing Crops	1.37	56	1.86	76	1.13	2,017	1.28	2,298	1.50	28	2.15	40	2.62	6	5.79	13
Greenhouse and Nursery Products	1.60	232	2.03	293	1.44	4,203	1.73	5,056	2.09	84	3.02	121	2.65	34	4.26	55
Agricultural, Forestry, Fishery Services	1.26	63	1.87	94	1.11	1,801	1.38	2,235	1.20	36	1.83	55	1.19	21	1.78	31
Landscape and Horticultural Services	1.25	179	1.96	281	1.09	6,962	1.31	8,388	1.15	124	1.73	186	1.13	66	1.72	100
Primary Agricultural Total --		1,772		2,268		61,244		68,247		630		933		256		427
Secondary Agriculture																
<u>Food & Kindred Products</u>																
Meat Packing Plants	1.11	287	1.25	323	1.40	1,073	2.06	1,575	1.58	43	2.39	65	1.41	31	1.97	43
Sausages and Other Prepared Meats	1.61	330	1.91	390	1.94	1,902	2.80	2,746	2.24	74	3.35	112	2.01	51	2.83	72
Poultry Processing	1.18	163	1.44	199	1.22	1,342	1.68	1,851	1.32	44	1.99	66	1.24	35	1.68	47
Total --		780		912		4,317		6,172		161		243		117		162
<u>Dairy Products</u>																
Creamery Butter	1.85	48	2.17	57	4.43	177	7.37	295	3.45	11	5.11	16	4.00	6	5.91	9
Cheese, Natural and Processed	1.30	13	1.49	15	2.36	52	3.64	80	2.56	3	3.78	4	2.57	1	3.79	2
Condensed and Evaporated Milk	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Ice Cream and Frozen Desserts	1.49	21	1.86	26	2.33	103	3.98	176	1.72	7	2.47	11	1.97	4	2.94	6
Fluid Milk	1.30	321	1.55	385	2.08	1,347	3.46	2,239	1.83	80	2.72	120	1.69	52	2.40	74
Total --		404		483		1,680		2,790		101		150		63		91
<u>Canned, Frozen, & Preserved Fruit</u>																
Canned Specialties	1.44	2	1.78	3	2.82	11	4.68	18	1.79	1	2.53	1	2.59	0 ^b	3.96	1
Canned Fruits and Vegetables	1.43	20	1.83	25	1.93	132	3.05	208	1.86	7	2.74	11	1.79	4	2.57	6
Dehydrated Food Products	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Pickles, Sauces, and Salad Dressings	1.26	126	1.61	160	2.02	574	3.64	1,033	1.34	57	1.81	77	1.88	18	3.07	30
Frozen Fruits, Juices and Vegetables	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0

Table A.11. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced
Frozen Specialties	1.38	5	1.79	6	1.73	29	2.91	48	1.44	2	2.08	3	1.48	1	2.12	2
Total --		153		194		745		1,307		67		92		24		38
<u>Grain Mill Products</u>																
Flour and Other Grain Mill Products	1.42	23	1.82	30	2.79	112	5.09	205	2.04	8	3.04	12	1.83	5	2.62	8
Cereal Preparations	1.60	1	2.01	2	3.90	8	6.49	13	2.72	0 ^b	4.05	1	2.52	0 ^b	3.61	0 ^b
Rice Milling	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Blended and Prepared Flour	1.47	12	1.77	14	2.67	59	4.14	92	3.57	3	5.39	4	2.86	2	4.15	3
Wet Corn Milling	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Dog, Cat, and Other Pet Food	1.45	106	1.77	130	2.69	532	4.35	860	2.29	30	3.38	44	2.23	18	3.21	26
Prepared Feeds, N.E.C	1.27	206	1.51	244	2.22	784	3.74	1,317	2.01	47	3.01	71	1.81	30	2.60	43
Total --		349		419		1,495		2,486		89		132		56		80
<u>Bakery Products</u>																
Bread, Cake, and Related Products	1.36	188	1.77	244	1.51	1,631	2.23	2,414	1.58	74	2.32	109	1.50	47	2.11	66
Cookies and Crackers	1.36	247	1.77	322	1.76	1,618	2.87	2,634	1.46	107	2.07	152	1.60	53	2.36	78
Total --		435		566		3,249		5,049		181		261		100		145
<u>Sugar & Confectionery Products</u>																
Sugar	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Confectionery Products	1.44	390	1.81	491	1.97	2,513	3.06	3,910	1.80	141	2.59	202	2.05	72	3.03	107
Chocolate and Cocoa Products	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Chewing Gum	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Salted and Roasted Nuts & Seeds	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --		390		491		2,513		3,910		141		202		72		107
<u>Fats & Oils</u>																
Cottonseed Oil Mills	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Soybean Oil Mills	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Vegetable Oil Mills, N.E.C	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Animal and Marine Fats and Oils	1.35	2	1.61	3	1.82	11	2.79	17	1.64	1	2.31	1	2.06	0 ^b	3.15	0 ^b
Shortening and Cooking Oils	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0

Table A.11. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced
Total --		2		3		11		17		1		1		0		0
<u>Beverages</u>																
Malt Beverages	1.36	13	1.71	17	2.03	77	3.36	127	1.80	4	2.72	6	2.52	2	4.25	3
Malt	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Wines, Brandy, and Brandy Spirits	1.41	16	1.81	20	1.82	110	2.92	177	1.98	5	3.04	8	2.45	3	4.08	4
Distilled Liquor, Except Brandy	1.16	143	2.01	247	3.10	338	19.29	2,103	1.13	103	1.92	175	2.14	13	10.21	63
Bottled and Canned Soft Drinks & Water	1.37	472	1.68	579	2.35	2,403	3.81	3,892	1.98	139	2.92	204	1.99	83	2.87	120
Flavoring Extracts and Syrups, N.E.C.	1.31	1	1.74	1	1.47	5	2.31	8	1.39	0 ^b	1.99	0 ^b	1.41	0 ^b	2.01	0 ^b
Total --		645		863		2,933		6,307		252		395		101		190
<u>Miscellaneous Food Preparations</u>																
Canned and Cured Sea Foods	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Prepared Fresh Or Frozen Fish Or Seafood	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Roasted Coffee	1.63	7	2.04	9	4.92	36	8.19	60	3.10	2	4.50	3	5.52	1	8.47	2
Potato Chips & Similar Snacks	1.32	184	1.67	233	2.01	962	3.41	1,632	1.52	71	2.15	100	1.74	34	2.59	50
Manufactured Ice	1.31	1	1.90	2	1.17	25	1.56	33	1.27	1	1.87	1	1.21	1	1.66	1
Macaroni and Spaghetti	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Food Preparations, N.E.C.	1.35	19	1.69	24	1.71	129	2.60	196	1.74	6	2.53	9	1.81	4	2.62	5
Total --		211		267		1,152		1,920		80		114		39		58
Total --		3,369		4,199		18,094		29,959		1,073		1,589		572		871
<u>Tobacco</u>																
Cigarettes	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Cigars	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Chewing and Smoking Tobacco	1.54	622	1.95	784	4.02	2,623	7.39	4,819	1.58	248	2.19	345	2.22	102	3.39	156
Tobacco Stemming and Redrying	1.68	111	1.95	129	3.71	482	5.61	728	4.27	22	6.33	33	4.33	13	6.34	19
Total --		733		913		3,105		5,546		270		378		115		176
<u>Textiles</u>																
<u>Broadwoven Fabric Mills and Finishing</u>	1.30	89	1.66	113	1.37	811	1.95	1,158	1.55	31	2.32	46	1.39	22	1.92	31

Table A.11. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced
<u>Narrow Fabric Mills</u>	1.20	2	1.74	3	1.20	24	1.80	36	1.21	1	1.82	2	1.14	1	1.54	1
<u>Knitting Mills</u>																
Women's Hosiery, Except Socks	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Hosiery, N.E.C	1.26	0 ^b	1.62	1	1.23	5	1.66	7	1.40	0 ^b	2.10	0 ^b	1.29	0 ^b	1.76	0 ^b
Knit Outerwear Mills	1.27	6	1.53	7	1.31	56	1.69	73	1.72	1	2.60	2	1.49	1	2.04	1
Knit Underwear Mills	1.15	0 ^b	1.71	0 ^b	1.10	3	1.53	4	1.12	0 ^b	1.68	0 ^b	1.09	0 ^b	1.47	0 ^b
Knit Fabric Mills	1.29	32	1.58	40	1.52	205	2.27	306	1.61	9	2.43	13	1.44	7	1.99	9
Knitting Mills, N.E.C.	1.30	8	1.62	10	1.24	94	1.60	121	1.57	2	2.37	4	1.45	2	1.97	2
Total --		47		57		363		511		13		19		10		13
<u>Yarn/Thread Mills</u>																
Yarn Mills and Finishing Of Textiles, N.E.C.	1.27	29	1.61	37	1.41	230	2.09	340	1.51	10	2.23	15	1.39	7	1.93	9
Thread Mills	1.21	6	1.56	8	1.33	48	2.03	73	1.28	3	1.83	4	1.29	1	1.85	2
Total --		35		45		278		413		13		19		8		11
<u>Carpets and Rugs</u>	1.27	182	1.56	222	1.51	1,211	2.22	1,781	1.61	53	2.37	79	1.53	34	2.15	48
<u>Miscellaneous Textile Goods</u>																
Coated Fabrics, Not Rubberized	1.46	59	1.82	74	1.83	390	2.78	593	2.20	17	3.32	26	1.77	13	2.46	18
Tire Cord and Fabric	1.07	3	1.47	4	2.05	4	9.82	20	1.05	3	1.33	3	1.76	0 ^b	6.64	1
Nonwoven Fabrics	1.40	277	1.80	357	2.10	1,351	3.80	2,444	1.53	110	2.20	159	1.58	60	2.28	87
Cordage and Twine	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Textile Goods, N.E.C	1.47	48	1.88	61	1.70	424	2.46	614	2.27	15	3.54	23	1.62	13	2.20	17
Total --		388		496		2,169		3,671		145		212		86		123
Total --		741		937		4,857		7,570		256		376		161		227
<u>Apparel</u>																
<u>Apparel Made From Purchased Materials</u>	1.30	1,377	1.69	1,788	1.28	16,424	1.73	22,144	1.49	511	2.23	763	1.36	369	1.87	508
<u>Misc. Fabricated Textile Products</u>																

Table A.11. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type		Type		Type		Type		Type		Type		Type		Type	
	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced
Curtains and Draperies	1.24	1	1.63	2	1.12	26	1.36	31	1.39	0 ^b	2.13	1	1.22	0 ^b	1.64	1
Housefurnishings, N.E.C	1.26	15	1.63	20	1.31	156	1.83	218	1.40	6	2.01	9	1.43	3	2.04	5
Textile Bags	1.19	3	1.64	4	1.18	35	1.74	51	1.22	2	1.79	2	1.17	1	1.61	1
Canvas Products	1.18	5	1.74	7	1.20	51	1.98	84	1.16	3	1.69	5	1.13	2	1.56	3
Pleating and Stitching	1.06	11	1.65	17	1.05	174	1.53	254	1.05	9	1.44	13	1.05	4	1.52	6
Automotive and Apparel Trimmings	1.39	78	1.75	99	1.43	725	2.00	1,015	1.60	26	2.39	39	1.45	19	1.99	26
Schiffi Machine Embroideries	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Fabricated Textile Products, N.E.C.	1.31	62	1.66	78	1.38	600	1.89	824	1.55	23	2.21	33	1.64	12	2.40	17
Total --		175		227		1,767		2,477		70		101		42		59
Total --		1,553		2,015		18,191		24,620		580		864		411		567
<i>Leather</i>																
<u>Leather Tanning and Finishing</u>	1.72	85	2.01	95	2.03	492	2.87	600	2.57	19	3.79	26	2.36	12	3.35	17
<u>Footwear Cut Stock</u>	1.39	23	1.70	28	1.33	175	1.88	246	1.33	8	1.89	11	1.41	4	2.03	6
<u>Footwear, Except Rubber</u>																
House Slippers	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Shoes, Except Rubber	1.52	194	2.02	230	1.40	2,566	1.88	3,240	1.48	84	2.16	116	1.45	56	2.01	71
Total --		194		230		2,566		3,240		84		116		56		71
<u>Leather Gloves and Mittens</u>	1.42	3	1.90	4	1.15	47	1.45	59	1.28	1	1.91	2	1.21	1	1.62	1
<u>Luggage</u>	1.23	43	1.70	59	1.25	385	1.97	606	1.19	25	1.66	34	1.24	12	1.80	17
<u>Handbags & Other Personal Leather Goods</u>																
Women's Handbags and Purses	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Personal Leather Goods	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --		0		0		0		0		0		0		0		0

Table A.11. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced
Leather Goods, N.E.C	1.21	4	1.76	6	1.09	71	1.49	98	1.11	3	1.57	4	1.11	2	1.56	2
Total --		351		421		3,736		4,848		139		193		86		114
Secondary Agriculture Total --		6,748		8,486		47,982		72,544		2,319		3,400		1,345		1,955
Agriculture Total --		8,998		11,361		111,682		145,037		3,128		4,590		1,691		2,515
Forest & Forestry Products, Logging																
<u>Forest Products</u>	1.44	52	1.84	67	1.19	1,320	1.37	1,519	1.73	22	2.42	30	5.02	5	9.73	10
<u>Forestry Products</u>	1.30	45	1.67	57	2.32	422	3.32	604	1.44	18	2.04	26	6.73	4	14.86	9
<u>Logging Camps and Logging Contractors</u>	1.21	91	1.51	114	1.36	714	1.96	1,027	1.32	33	1.87	46	1.50	14	2.34	21
Forest/Forestry Products, Logging Total --		188		238		2,456		3,150		73		103		23		40
Primary Forestry																
<u>Sawmills and Planing Mills</u>																
Sawmills and Planing Mills, General	1.32	421	1.66	528	1.50	3,160	2.21	4,662	1.62	136	2.40	201	1.59	80	2.31	116
Hardwood Dimension and Flooring Mills	1.51	221	2.10	308	1.32	2,873	1.88	4,085	1.46	107	2.18	160	1.40	68	1.99	97
Special Product Sawmills, N.E.C	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --		642		837		6,034		8,747		243		361		148		213
<u>Pulp Mills</u>	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
<u>Paper Mills, Except Building Paper</u>	1.42	129	1.88	170	1.96	744	3.50	1,328	1.56	53	2.31	79	1.48	34	2.10	48
<u>Paperboard Mills</u>	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Primary Forestry Total --		771		1,007		6,777		10,075		296		440		182		261
Secondary Forestry																
<u>Millwork, Veneer, Plywood, & Struct. Wood</u>																
Millwork	1.31	58	1.78	79	1.28	673	1.84	968	1.48	25	2.25	38	1.40	17	1.99	24

Table A.11. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced
Wood Kitchen Cabinets	1.24	74	1.75	105	1.18	1,031	1.67	1,461	1.28	38	1.92	56	1.25	24	1.79	34
Veneer and Plywood	1.20	0 ^b	1.58	0 ^b	1.28	2	1.97	3	1.33	0 ^b	1.98	0 ^b	1.27	0 ^b	1.81	0 ^b
Structural Wood Members, N.E.C	1.29	12	1.67	16	1.32	125	1.85	175	1.59	4	2.39	7	1.53	3	2.23	4
Total --		145		200		1,830		2,606		67		101		43		61
<u>Wood Containers</u>																
Wood Containers	1.21	7	1.73	11	1.21	82	1.88	127	1.23	4	1.85	6	1.19	3	1.68	4
Wood Pallets and Skids	1.27	37	1.75	51	1.20	589	1.59	783	1.40	17	2.11	25	1.35	11	1.93	15
Total --		44		61		670		909		21		31		13		19
<u>Wood Buildings & Mobile Homes</u>																
Mobile Homes	1.22	220	1.65	297	1.26	2,009	1.94	3,090	1.27	96	1.90	143	1.26	59	1.81	85
Prefabricated Wood Buildings	1.25	26	1.70	35	1.35	235	2.10	366	1.37	11	2.06	17	1.31	7	1.86	11
Total --		246		333		2,244		3,456		107		160		67		96
<u>Miscellaneous Wood Products</u>																
Wood Preserving	1.34	13	1.65	16	1.99	73	3.16	116	2.00	4	2.94	6	2.18	2	3.27	3
Reconstituted Wood Products	1.34	2	1.75	2	1.76	10	3.07	17	1.44	1	2.05	1	1.60	0 ^b	2.43	1
Wood Products, N.E.C	1.27	80	1.77	111	1.22	1,063	1.72	1,495	1.35	38	2.01	57	1.32	24	1.89	34
Gum and Wood Chemicals	1.30	34	1.68	44	2.10	133	4.19	266	1.34	17	1.80	23	1.75	5	2.95	8
Total --		130		174		1,280		1,895		60		87		31		46
<u>Household Furniture</u>																
Wood Household Furniture	1.32	100	1.80	136	1.31	1,133	1.90	1,645	1.43	45	2.15	67	1.35	30	1.90	42
Upholstered Household Furniture	1.30	64	1.72	85	1.31	711	1.84	1,003	1.47	25	2.22	37	1.37	17	1.92	24
Mattresses and Bedsprings	1.30	22	1.71	29	1.38	208	2.03	305	1.44	9	2.16	13	1.37	6	1.90	8
Wood TV and Radio Cabinets	1.35	4	1.73	6	1.30	46	1.82	64	1.65	1	2.52	2	1.48	1	2.08	1
Household Furniture, N.E.C	1.56	3	2.08	5	1.24	48	1.66	64	1.65	1	2.51	2	1.44	1	1.99	1
Total --		194		261		2,145		3,080		81		122		56		78
<u>Wood Office Furniture</u>																
	1.26	0 ^b	1.82	0 ^b	1.25	3	1.95	5	1.29	0 ^b	1.96	0 ^b	1.20	0 ^b	1.65	0 ^b
<u>Public Building Furniture</u>																
	1.29	326	1.67	423	1.60	2,198	2.59	3,556	1.53	122	2.27	181	1.48	76	2.12	109

Table A.11. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced
<u>Wood Partitions and Fixtures</u>	1.22	18	1.79	26	1.22	210	1.88	324	1.24	10	1.88	15	1.17	7	1.61	10
<u>Miscellaneous</u>																
Blinds, Shades, and Drapery Hardware	1.30	1	1.73	1	1.30	9	1.86	12	1.45	0 ^b	2.14	1	1.38	0 ^b	1.96	0 ^b
Furniture and Fixtures, N.E.C	1.02	20	1.16	22	1.03	112	1.39	150	1.05	4	1.52	5	1.05	2	1.49	3
Total --		20		23		120		163		4		6		2		3
<u>Paperboard Containers and Boxes</u>	1.27	527	1.64	677	1.51	3,566	2.41	5,680	1.55	180	2.34	272	1.39	131	1.93	182
<u>Converted Paper & Paperboard Products</u>																
Paper Coated & Laminated Packaging	1.33	76	1.72	98	1.65	450	2.80	760	1.49	29	2.20	42	1.45	18	2.05	26
Paper Coated & Laminated N.E.C.	1.32	38	1.71	49	1.56	243	2.57	400	1.46	15	2.14	22	1.43	9	2.04	13
Bags, Paper	1.49	83	1.90	106	1.65	557	2.59	875	1.75	29	2.58	43	1.65	18	2.34	26
Die-cut Paper and Board	1.25	7	1.65	9	1.34	62	2.04	93	1.39	3	2.05	4	1.35	2	1.92	3
Sanitary Paper Products	1.34	8	1.64	10	2.77	34	4.87	59	1.69	3	2.40	4	2.21	1	3.39	2
Envelopes	1.32	66	1.72	87	1.43	559	2.18	849	1.54	24	2.34	37	1.37	19	1.88	26
Stationery Products	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Converted Paper Products, N.E.C	1.33	118	1.73	153	1.57	830	2.50	1,321	1.54	46	2.26	67	1.49	28	2.12	40
Total --		396		511		2,733		4,359		148		219		95		134
Secondary Forestry Total --		2,047		2,690		17,000		26,034		799		1,193		522		739
Forestry Total --		3,006		3,935		26,234		39,258		1,169		1,736		726		1,040
Agriculture & Forestry Total --		12,003		15,296		137,916		184,296		4,297		6,326		2,418		3,555

^a Totals may not add due to rounding.

^b Values of zero are nonzero values less than 1.

Table A.12. Chattanooga Region: Total Impacts from Agriculture and Forestry ^a

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced
<i>Agricultural Inputs</i>																
<i>Agricultural Chemicals</i>																
Nitrogenous and Phosphatic Fertilizers	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Fertilizers, Mixing Only	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Agricultural Chemicals, N.E.C	1.36	10	1.65	12	2.51	42	4.32	72	1.44	4	1.87	5	1.76	2	2.49	2
Total --		10		12		42		72		4		5		2		2
<i>Agricultural Machinery</i>																
Farm Machinery and Equipment	1.39	99	1.68	119	1.65	656	2.43	963	1.55	37	2.09	50	1.58	21	2.13	28
Lawn and Garden Equipment	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --		99		119		656		963		37		50		21		28
<i>Agricultural Inputs Total --</i>		108		131		698		1,035		41		55		22		30
<i>Primary Agriculture</i>																
Dairy Farm Products	1.33	57	1.54	67	1.54	902	1.78	1,039	2.08	14	2.94	20	2.59	6	4.02	9
Poultry and Eggs	1.24	106	1.36	116	1.48	870	1.76	1,031	2.45	16	3.47	23	3.35	8	5.05	12
Ranch Fed Cattle	1.58	50	1.79	57	1.44	1,438	1.55	1,541	3.03	11	4.25	15	3.55	4	5.58	7
Range Fed Cattle	1.73	4	1.95	4	1.65	96	1.77	103	2.87	1	4.04	1	3.44	0 ^b	5.53	0 ^b
Cattle Feedlots	1.44	3	1.64	3	1.91	29	2.27	34	2.64	1	3.71	1	3.06	0 ^b	4.82	0 ^b
Sheep, Lambs and Goats	1.45	0 ^b	1.63	0 ^b	1.14	19	1.14	19	3.07	0 ^b	4.32	0 ^b	3.73	0 ^b	5.88	0 ^b
Hogs, Pigs and Swine	1.58	1	1.79	1	1.28	81	1.31	83	2.76	0 ^b	3.84	0 ^b	3.15	0 ^b	4.95	0 ^b
Other Meat Animal Products	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Miscellaneous Livestock	1.33	2	1.53	2	1.03	262	1.05	266	1.84	0 ^b	2.55	1	1.98	0 ^b	2.91	0 ^b
Cotton	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Food Grains	1.36	1	1.66	1	1.07	55	1.15	59	1.67	0 ^b	2.25	1	5.09	0 ^b	10.40	0 ^b
Feed Grains	1.32	3	1.59	3	1.09	104	1.18	113	1.67	1	2.27	1	5.40	0 ^b	11.00	0 ^b
Hay and Pasture	1.36	38	1.60	44	1.05	2,808	1.09	2,912	2.06	12	2.84	16	5.51	3	10.10	6
Grass Seeds	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Tobacco	1.37	6	1.59	7	1.09	245	1.15	259	2.57	2	3.51	2	2.39	1	3.60	1

Table A.12. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type		Type		Type		Type		Type		Type		Type		Type	
	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced
Fruits	1.38	3	1.64	3	1.44	32	1.76	40	2.02	1	2.83	1	1.88	0 ^b	2.62	1
Tree Nuts	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Vegetables	1.37	8	1.65	10	1.19	209	1.34	235	1.76	3	2.45	4	2.14	1	3.30	2
Sugar Crops	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Miscellaneous Crops	1.23	0 ^b	1.46	0 ^b	1.08	1	1.15	1	1.55	0 ^b	2.19	0 ^b	1.97	0 ^b	3.26	0 ^b
Oil Bearing Crops	1.33	3	1.66	4	1.06	173	1.14	186	1.55	1	2.09	2	2.72	0 ^b	5.38	1
Greenhouse and Nursery Products	1.29	7	1.60	9	1.15	177	1.31	202	1.40	3	1.87	4	1.55	1	2.26	2
Agricultural, Forestry, Fishery Services	1.25	5	1.63	7	1.07	254	1.17	278	1.25	3	1.75	4	1.18	2	1.55	2
Landscape and Horticultural Services	1.11	29	1.63	43	1.04	1,267	1.20	1,467	1.08	21	1.51	30	1.08	11	1.51	16
Primary Agriculture Total --		326		382		9,020		9,867		89		125		39		59
Secondary Agriculture																
<u>Food & Kindred Products</u>																
Meat Packing Plants	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Sausages and Other Prepared Meats	1.28	8	1.46	9	1.63	49	2.21	67	1.79	2	2.48	3	1.61	1	2.11	2
Poultry Processing	1.20	198	1.40	232	1.24	1,616	1.63	2,115	1.31	54	1.83	75	1.25	43	1.58	54
Total --		206		241		1,665		2,182		56		78		44		56
<u>Dairy Products</u>																
Creamery Butter	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Cheese, Natural and Processed	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Condensed and Evaporated Milk	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Ice Cream and Frozen Desserts	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Fluid Milk	1.28	286	1.45	324	1.98	1,196	2.93	1,767	1.86	63	2.56	87	1.71	41	2.28	54
Total --		286		324		1,196		1,767		63		87		41		54
<u>Canned, Frozen, & Preserved Fruit</u>																
Canned Specialties	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Canned Fruits and Vegetables	1.33	1	1.63	1	1.85	6	2.92	9	1.50	0 ^b	2.03	1	1.45	0 ^b	1.92	0 ^b
Dehydrated Food Products	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Pickles, Sauces, and Salad Dressings	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0

Table A.12. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced
Frozen Fruits, Juices and Vegetables	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Frozen Specialties	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total		1		1		6		9		0		1		0		0
<u>Grain Mill Products</u>																
Flour and Other Grain Mill Products	1.42	100	1.69	119	2.67	500	4.21	788	2.33	31	3.24	43	2.06	20	2.79	27
Cereal Preparations	1.56	72	1.85	85	3.75	378	5.71	576	2.57	22	3.54	30	2.37	14	3.17	19
Rice Milling	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Blended and Prepared Flour	1.43	58	1.67	68	2.60	281	3.98	429	2.42	16	3.38	22	2.02	11	2.69	14
Wet Corn Milling	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Dog, Cat, and Other Pet Food	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Prepared Feeds, N.E.C	1.48	6	1.67	6	2.50	21	3.73	31	2.62	1	3.63	2	2.29	1	3.11	1
Total		236		279		1,179		1,824		70		97		45		60
<u>Bakery Products</u>																
Bread, Cake, and Related Products	1.32	305	1.64	379	1.51	2,410	2.20	3,513	1.41	131	1.92	178	1.35	84	1.76	110
Cookies and Crackers	1.32	779	1.62	959	1.73	4,718	2.69	7,347	1.36	349	1.79	460	1.47	170	2.00	232
Total		1,084		1,338		7,128		10,860		480		637		255		342
<u>Sugar & Confectionary Products</u>																
Sugar	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Confectionery Products	1.35	506	1.64	617	1.95	2,770	3.11	4,409	1.45	213	1.91	281	1.57	105	2.16	144
Chocolate and Cocoa Products	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Chewing Gum	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Salted and Roasted Nuts & Seeds	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total		506		617		2,770		4,409		213		281		105		144
<u>Fats & Oils</u>																
Cottonseed Oil Mills	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Soybean Oil Mills	1.44	76	1.61	85	6.61	239	10.46	379	4.70	14	6.61	20	5.48	8	7.97	11
Vegetable Oil Mills, N.E.C	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Animal and Marine Fats and Oils	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0

Table A.12. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced
Shortening and Cooking Oils	1.52	2	1.75	3	3.02	8	5.22	14	1.63	1	2.18	1	1.78	0 ^b	2.49	0 ^b
Total --		79		88		247		392		15		21		8		12
<u>Beverages</u>																
Malt Beverages	1.27	3	1.59	4	2.03	16	3.78	30	1.40	1	2.00	2	1.74	1	2.94	1
Malt	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Wines, Brandy, and Brandy Spirits	1.35	1	1.65	1	1.73	6	2.59	9	1.87	0 ^b	2.71	0 ^b	2.27	0 ^b	3.61	0 ^b
Distilled Liquor, Except Brandy	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Bottled and Canned Soft Drinks & Water	1.33	494	1.54	573	2.22	2,483	3.27	3,663	1.90	136	2.60	185	1.89	80	2.55	108
Flavoring Extracts and Syrups, N.E.C.	1.27	12	1.62	16	1.57	70	2.69	120	1.23	7	1.63	9	1.25	4	1.65	5
Total --		510		594		2,575		3,821		144		196		85		114
<u>Miscellaneous Food Preparations</u>																
Canned and Cured Sea Foods	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Prepared Fresh Or Frozen Fish Or Seafood	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Roasted Coffee	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Potato Chips & Similar Snacks	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Manufactured Ice	1.24	1	1.70	1	1.18	9	1.62	12	1.19	0 ^b	1.61	1	1.15	0 ^b	1.46	0 ^b
Macaroni and Spaghetti	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Food Preparations, N.E.C.	1.33	49	1.58	58	1.68	320	2.38	454	1.63	16	2.20	22	1.68	9	2.26	12
Total --		50		59		328		466		17		22		9		13
Total --		2,958		3,541		17,094		25,730		1,058		1,420		592		796
<u>Tobacco</u>																
Cigarettes	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Cigars	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Chewing and Smoking Tobacco	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Tobacco Stemming and Redrying	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --		0		0		0		0		0		0		0		0
<u>Textiles</u>																
Broadwoven Fabric Mills and Finishing	1.41	70	1.71	85	1.44	609	1.96	829	1.64	24	2.26	34	1.47	18	1.90	23

Table A.12. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced
<u>Narrow Fabric Mills</u>	1.50	6	1.89	8	1.28	87	1.64	112	1.54	3	2.12	4	1.39	2	1.78	3
<u>Knitting Mills</u>																
Women's Hosiery, Except Socks	1.61	17	1.94	21	1.31	239	1.60	291	1.86	6	2.56	8	1.69	4	2.18	5
Hosiery, N.E.C.	1.53	334	1.86	406	1.46	3,494	1.91	4,565	1.64	118	2.27	163	1.51	90	1.93	114
Knit Outerwear Mills	1.57	5	1.78	6	1.49	47	1.81	58	2.63	1	3.64	2	2.19	1	2.83	1
Knit Underwear Mills	1.25	0 ^b	1.70	0 ^b	1.15	4	1.60	6	1.15	0 ^b	1.58	0 ^b	1.12	0 ^b	1.41	0 ^b
Knit Fabric Mills	1.66	69	1.94	81	1.95	439	2.72	614	2.14	19	2.97	26	1.89	14	2.44	18
Knitting Mills, N.E.C.	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --		426		514		4,224		5,533		144		200		109		139
<u>Yarn/Thread Mills</u>																
Yarn Mills and Finishing Of Textiles, N.E.C.	1.63	688	1.97	833	1.70	4,993	2.43	7,153	1.89	246	2.58	337	1.74	166	2.26	217
Thread Mills	1.44	10	1.79	13	1.60	69	2.45	106	1.42	5	1.89	6	1.47	3	1.96	3
Total --		698		846		5,062		7,259		251		343		169		220
<u>Carpets and Rugs</u>	1.69	108	1.97	126	1.91	714	2.63	987	2.40	31	3.27	43	2.31	20	3.04	27
<u>Miscellaneous Textile Goods</u>																
Coated Fabrics, Not Rubberized	1.57	19	1.84	22	1.93	124	2.68	172	2.44	5	3.39	7	1.95	4	2.54	5
Tire Cord and Fabric	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Nonwoven Fabrics	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Cordage and Twine	1.57	6	1.88	8	1.57	57	2.09	75	2.17	2	3.02	3	1.76	1	2.28	2
Textile Goods, N.E.C.	1.69	86	2.02	102	1.80	743	2.41	992	3.12	24	4.45	35	1.99	20	2.56	26
Total --		111		132		923		1,239		32		45		25		33
Total --		1,419		1,711		11,619		15,958		485		668		343		444
<u>Apparel</u>																
<u>Apparel Made From Purchased Materials</u>	1.35	403	1.63	488	1.28	4,788	1.62	6,042	1.51	139	2.09	191	1.39	101	1.79	130

Table A.12. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced
<u>Misc. Fabricated Textile Products</u>																
Curtains and Draperies	1.25	4	1.68	5	1.18	61	1.58	81	1.24	2	1.75	3	1.16	2	1.44	2
Housefurnishings, N.E.C	1.28	58	1.57	71	1.33	536	1.81	729	1.35	24	1.79	32	1.37	14	1.83	18
Textile Bags	1.18	19	1.57	25	1.22	151	1.96	243	1.15	11	1.56	15	1.12	8	1.43	10
Canvas Products	1.19	7	1.60	9	1.19	72	1.75	106	1.17	4	1.57	6	1.13	3	1.46	3
Pleating and Stitching	1.05	1	1.49	2	1.03	29	1.29	36	1.04	1	1.33	1	1.04	0 ^b	1.40	1
Automotive and Apparel Trimmings	1.31	40	1.60	49	1.39	348	1.93	483	1.42	15	1.95	21	1.31	11	1.68	14
Schiffi Machine Embroideries	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Fabricated Textile Products, N.E.C.	1.45	11	1.70	13	1.42	115	1.78	144	1.85	4	2.47	5	2.00	2	2.72	3
Total --		139		174		1,312		1,822		61		83		39		51
Total --		543		662		6,101		7,863		200		274		141		182
<u>Leather</u>																
<u>Leather Tanning and Finishing</u>																
	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
<u>Footwear Cut Stock</u>																
	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
<u>Footwear, Except Rubber</u>																
House Slippers	1.02	0 ^b	1.33	1	1.07	1	2.78	3	1.01	0 ^b	1.20	0 ^b	1.09	0 ^b	2.94	0 ^b
Shoes, Except Rubber	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --		0		1		1		3		0		0		0		0
<u>Leather Gloves and Mittens</u>																
	1.18	5	1.51	7	1.11	109	1.33	131	1.19	2	1.63	3	1.14	2	1.43	2
<u>Luggage</u>																
	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
<u>Handbags & Other Personal Leather Goods</u>																
Women's Handbags and Purses	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Personal Leather Goods	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --		0		0		0		0		0		0		0		0

Table A.12. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced
<u>Leather Goods, N.E.C</u>	1.09	16	1.48	22	1.05	291	1.36	377	1.07	12	1.40	15	1.06	6	1.39	8
Total --		22		30		402		511		14		19		8		11
Secondary Agriculture Total --		4,942		5,943		35,216		50,062		1,757		2,381		1,083		1,432
Agriculture Total --		5,377		6,456		44,935		60,965		1,888		2,561		1,145		1,522
Forest & Forestry Products, Logging																
<u>Forest Products</u>	1.41	10	1.66	11	1.18	231	1.31	257	1.93	3	2.55	4	6.46	1	11.27	1
<u>Forestry Products</u>	1.21	42	1.47	51	1.95	351	2.74	494	1.27	17	1.71	23	4.92	3	11.45	7
<u>Logging Camps and Logging Contractors</u>	1.14	19	1.37	23	1.28	136	1.80	191	1.20	7	1.57	10	1.29	3	1.87	4
Forest/Forestry Products, Logging Total --		71		85		719		942		28		37		7		12
Primary Forestry																
<u>Sawmills and Planing Mills</u>																
Sawmills and Planing Mills, General	1.25	25	1.44	29	1.38	209	1.77	267	1.72	7	2.36	9	1.69	4	2.30	5
Hardwood Dimension and Flooring Mills	1.30	15	1.68	20	1.20	229	1.54	294	1.33	7	1.83	10	1.29	4	1.73	6
Special Product Sawmills, N.E.C	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --		41		49		438		561		14		19		8		11
<u>Pulp Mills</u>	1.39	25	1.64	29	2.66	111	4.29	178	1.70	8	2.28	11	1.88	4	2.59	6
<u>Paper Mills, Except Building Paper</u>	1.31	372	1.65	468	1.83	1,961	3.17	3,389	1.38	165	1.88	225	1.32	106	1.73	139
<u>Paperboard Mills</u>	1.40	151	1.67	180	2.55	709	4.11	1,145	1.76	51	2.38	69	1.77	29	2.40	39
Primary Forestry Total --		588		727		3,219		5,274		239		325		147		195
Secondary Forestry																
<u>Millwork, Veneer, Plywood, & Struct. Wood</u>																
Millwork	1.28	6	1.64	8	1.27	67	1.74	92	1.38	3	1.94	4	1.31	2	1.74	2

Table A.12. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced
Wood Kitchen Cabinets	1.26	14	1.65	19	1.19	199	1.57	265	1.28	7	1.77	10	1.24	4	1.65	6
Veneer and Plywood	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Structural Wood Members, N.E.C	1.26	25	1.58	31	1.32	235	1.84	328	1.40	10	1.95	14	1.35	6	1.81	8
Total		46		58		502		686		20		28		12		17
<u>Wood Containers</u>																
Wood Containers	1.23	3	1.57	4	1.18	43	1.54	56	1.30	1	1.81	2	1.26	1	1.68	1
Wood Pallets and Skids	1.24	9	1.59	12	1.18	144	1.50	183	1.33	4	1.85	6	1.27	3	1.69	4
Total		12		16		187		239		6		8		4		5
<u>Wood Buildings & Mobile Homes</u>																
Mobile Homes	1.27	0 ^b	1.54	0 ^b	1.22	1	1.54	2	1.44	0 ^b	1.99	0 ^b	1.44	0 ^b	1.96	0 ^b
Prefabricated Wood Buildings	1.27	6	1.55	8	1.31	65	1.74	86	1.48	2	2.06	3	1.42	1	1.91	2
Total		6		8		66		87		2		3		1		2
<u>Miscellaneous Wood Products</u>																
Wood Preserving	1.32	13	1.54	15	1.95	68	2.84	99	1.90	4	2.59	5	2.03	2	2.82	3
Reconstituted Wood Products	1.42	21	1.70	25	1.75	127	2.59	188	1.59	8	2.12	10	1.79	4	2.51	5
Wood Products, N.E.C	1.27	31	1.62	40	1.21	433	1.57	562	1.34	14	1.85	20	1.32	8	1.78	11
Gum and Wood Chemicals	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total		65		80		629		849		25		35		14		19
<u>Household Furniture</u>																
Wood Household Furniture	1.34	64	1.69	80	1.30	738	1.73	983	1.45	27	2.00	37	1.35	18	1.78	24
Upholstered Household Furniture	1.26	437	1.58	548	1.28	4,648	1.74	6,300	1.37	175	1.91	244	1.29	127	1.67	165
Mattresses and Bedsprings	1.27	67	1.59	84	1.38	623	1.93	869	1.37	27	1.90	38	1.32	19	1.70	25
Wood TV and Radio Cabinets	1.44	1	1.72	1	1.34	6	1.74	7	1.80	0 ^b	2.52	0 ^b	1.58	0 ^b	2.10	0 ^b
Household Furniture, N.E.C	1.46	50	1.89	65	1.25	596	1.72	815	1.38	23	1.94	32	1.26	18	1.61	23
Total		618		777		6,610		8,974		252		352		182		236
<u>Wood Office Furniture</u>																
	1.28	9	1.69	12	1.26	108	1.76	152	1.31	5	1.84	6	1.23	3	1.59	4
<u>Public Building Furniture</u>																
	1.27	310	1.55	378	1.57	2,099	2.32	3,102	1.48	112	2.04	154	1.44	69	1.93	93

Table A.12. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced
<u>Wood Partitions and Fixtures</u>	1.29	2	1.68	3	1.22	26	1.63	35	1.32	1	1.84	1	1.22	1	1.58	1
<u>Miscellaneous</u>																
Blinds, Shades, and Drapery Hardware	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Furniture and Fixtures, N.E.C	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --		0		0		0		0		0		0		0		0
<u>Paperboard Containers and Boxes</u>	1.25	330	1.51	399	1.48	2,215	2.17	3,257	1.47	111	2.04	155	1.33	81	1.73	106
<u>Converted Paper & Paperboard Products</u>																
Paper Coated & Laminated Packaging	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Paper Coated & Laminated N.E.C.	1.37	1	1.59	1	1.51	8	1.97	10	1.92	0 ^b	2.63	0 ^b	1.87	0 ^b	2.51	0 ^b
Bags, Paper	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Die-cut Paper and Board	1.25	0 ^b	1.51	0 ^b	1.32	2	1.76	3	1.44	0 ^b	1.97	0 ^b	1.39	0 ^b	1.86	0 ^b
Sanitary Paper Products	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Envelopes	1.30	1	1.58	1	1.40	5	1.92	7	1.55	0 ^b	2.16	0 ^b	1.36	0 ^b	1.76	0 ^b
Stationery Products	1.26	85	1.52	102	1.61	507	2.44	767	1.41	32	1.88	43	1.46	17	1.98	23
Converted Paper Products, N.E.C	1.32	1	1.59	1	1.52	5	2.14	8	1.58	0 ^b	2.16	0 ^b	1.52	0 ^b	2.03	0 ^b
Total --		87		105		527		794		33		44		18		24
Secondary Forestry Total --		1,485		1,835		12,970		18,175		567		785		386		506
Forestry Total --		2,144		2,647		16,907		24,392		833		1,146		540		714
Agriculture & Forestry Total --		7,521		9,103		61,842		85,356		2,721		3,707		1,684		2,235

^a Totals may not add due to rounding.

^b Values of zero are nonzero values less than 1.

Table A.13. Knoxville Region: Total Impacts from Agriculture and Forestry ^a

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced
<i>Agricultural Inputs</i>																
<i>Agricultural Chemicals</i>																
Nitrogenous and Phosphatic Fertilizers	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Fertilizers, Mixing Only	1.33	1	1.59	1	1.85	8	2.76	11	2.22	0 ^b	3.26	0 ^b	1.88	0 ^b	2.63	0 ^b
Agricultural Chemicals, N.E.C	1.37	11	1.74	13	2.58	47	4.96	91	1.49	5	2.04	6	1.85	2	2.79	3
Total --		12		15		55		102		5		7		2		3
<i>Agricultural Machinery</i>																
Farm Machinery and Equipment	1.33	3	1.66	4	1.61	24	2.46	37	1.60	1	2.28	2	1.64	1	2.34	1
Lawn and Garden Equipment	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --		3		4		24		37		1		2		1		1
<i>Agricultural Inputs Total --</i>		15		19		79		139		6		8		3		4
<i>Primary Agriculture</i>																
Dairy Farm Products	1.28	36	1.65	46	1.47	950	1.71	1,107	1.51	13	2.24	19	1.78	5	3.13	8
Poultry and Eggs	1.21	27	1.46	33	1.26	438	1.52	527	1.47	8	2.15	11	1.77	3	2.91	5
Ranch Fed Cattle	1.51	77	1.86	94	1.37	3,788	1.48	4,070	2.00	23	2.96	34	2.29	8	4.02	15
Range Fed Cattle	1.41	5	1.74	6	1.34	215	1.45	233	1.71	1	2.55	2	1.96	0 ^b	3.59	1
Cattle Feedlots	1.32	4	1.60	5	1.81	63	2.17	76	1.89	1	2.80	2	2.18	0 ^b	3.80	1
Sheep, Lambs and Goats	1.34	0 ^b	1.63	0 ^b	1.08	98	1.09	100	1.82	0 ^b	2.71	0 ^b	2.07	0 ^b	3.61	0 ^b
Hogs, Pigs and Swine	1.28	1	1.57	2	1.08	177	1.11	182	1.71	0 ^b	2.51	1	1.89	0 ^b	3.26	0 ^b
Other Meat Animal Products	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Miscellaneous Livestock	1.25	4	1.58	5	1.04	825	1.06	842	1.43	2	2.08	2	1.51	1	2.39	1
Cotton	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Food Grains	1.25	1	1.71	1	1.04	47	1.13	51	1.27	0 ^b	1.77	1	3.04	0 ^b	8.64	0 ^b
Feed Grains	1.23	2	1.68	3	1.05	136	1.15	149	1.27	1	1.79	2	3.11	0 ^b	8.66	0 ^b
Hay and Pasture	1.29	50	1.69	66	1.03	6,405	1.07	6,651	1.43	23	2.05	32	3.18	4	7.37	10
Grass Seeds	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Tobacco	1.34	42	1.67	52	1.05	3,101	1.10	3,263	1.77	15	2.53	21	1.75	6	2.80	10
Fruits	1.31	1	1.75	1	1.06	75	1.14	81	1.43	0 ^b	2.10	1	1.39	0 ^b	2.03	0 ^b

Table A.13. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type		Type		Type		Type		Type		Type		Type			
	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced
Tree Nuts	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Vegetables	1.24	12	1.75	16	1.14	329	1.40	403	1.23	7	1.76	10	1.34	3	2.21	4
Sugar Crops	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Miscellaneous Crops	1.29	0 ^b	1.60	0 ^b	1.13	5	1.22	5	1.73	0 ^b	2.58	0 ^b	2.31	0 ^b	4.02	0 ^b
Oil Bearing Crops	1.19	1	1.72	2	1.04	91	1.14	100	1.18	1	1.66	1	1.67	0 ^b	4.40	0 ^b
Greenhouse and Nursery Products	1.32	42	1.80	58	1.18	1,441	1.37	1,675	1.33	24	1.85	33	1.47	8	2.38	14
Agricultural, Forestry, Fishery Services	1.23	16	1.75	22	1.10	612	1.29	715	1.23	9	1.83	13	1.19	5	1.70	8
Landscape and Horticultural Services	1.20	75	1.86	115	1.11	3,289	1.32	3,915	1.16	54	1.69	79	1.13	28	1.70	41
Primary Agriculture Total --		396		528		22,086		24,145		182		264		73		119
Secondary Agriculture																
<u>Food & Kindred Products</u>																
Meat Packing Plants	1.10	69	1.25	78	1.41	250	2.22	394	1.40	12	2.07	18	1.28	9	1.74	12
Sausages and Other Prepared Meats	1.53	369	1.80	434	1.94	2,218	2.82	3,227	2.14	88	3.12	128	1.93	60	2.66	83
Poultry Processing	1.22	129	1.45	155	1.26	1,085	1.72	1,476	1.37	33	2.01	49	1.28	26	1.71	35
Total --		567		667		3,552		5,098		133		195		96		131
<u>Dairy Products</u>																
Creamery Butter	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Cheese, Natural and Processed	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Condensed and Evaporated Milk	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Ice Cream and Frozen Desserts	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Fluid Milk	1.27	51	1.48	60	2.06	225	3.26	355	1.95	12	2.83	17	1.78	7	2.50	10
Total --		51		60		225		355		12		17		7		10
<u>Canned, Frozen, & Preserved Fruits</u>																
Canned Specialties	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Canned Fruits and Vegetables	1.41	263	1.78	332	1.96	1,735	3.16	2,798	1.75	98	2.51	140	1.68	60	2.36	84
Dehydrated Food Products	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Pickles, Sauces, and Salad Dressings	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Frozen Fruits, Juices and Vegetables	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0

Table A.13. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced	Type I	Type Indirect	Type SAM	Type Induced
Frozen Specialties	1.39	4	1.76	5	1.75	24	2.83	38	1.50	1	2.13	2	1.55	1	2.18	1
Total --		267		336		1,758		2,836		99		142		61		85
<u>Grain Mill Products</u>																
Flour and Other Grain Mill Products	1.41	185	1.76	230	2.80	936	4.92	1,648	2.14	61	3.13	90	1.90	39	2.70	55
Cereal Preparations	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Rice Milling	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Blended and Prepared Flour	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Wet Corn Milling	1.29	94	1.55	113	3.87	329	7.25	616	1.69	30	2.34	41	2.14	13	3.23	19
Dog, Cat, and Other Pet Food	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Prepared Feeds, N.E.C	1.30	11	1.51	13	2.30	43	3.74	70	2.24	2	3.27	3	2.00	1	2.82	2
Total --		290		356		1,308		2,334		94		135		53		77
<u>Bakery Products</u>																
Bread, Cake, and Related Products	1.37	147	1.75	188	1.55	1,307	2.29	1,925	1.58	57	2.27	82	1.50	37	2.07	50
Cookies and Crackers	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --		147		188		1,307		1,925		57		82		37		50
<u>Sugar & Confectionary Products</u>																
Sugar	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Confectionery Products	1.42	3	1.75	3	1.95	18	2.98	28	1.84	1	2.59	1	2.08	0 ^b	3.03	1
Chocolate and Cocoa Products	1.42	33	1.76	41	2.22	198	3.62	323	1.80	12	2.56	17	1.95	6	2.83	9
Chewing Gum	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Salted and Roasted Nuts & Seeds	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --		36		45		216		351		13		18		7		10
<u>Fats & Oils</u>																
Cottonseed Oil Mills	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Soybean Oil Mills	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Vegetable Oil Mills, N.E.C	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Animal and Marine Fats and Oils	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Shortening and Cooking Oils	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0

Table A.13. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type		Type		Type		Type		Type		Type		Type			
	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced
Total --	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<u>Beverages</u>																
Malt Beverages	1.33	2	1.72	2	2.17	9	4.26	18	1.48	1	2.21	1	1.90	0 ^b	3.35	1
Malt	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Wines, Brandy, and Brandy Spirits	1.40	2	1.75	3	1.81	16	2.83	25	2.08	1	3.14	1	2.57	0 ^b	4.26	1
Distilled Liquor, Except Brandy	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Bottled and Canned Soft Drinks & Water	1.41	170	1.67	202	2.40	899	3.74	1,401	2.23	46	3.22	66	2.22	27	3.16	38
Flavoring Extracts and Syrups, N.E.C.	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --	174	207	924	1,444	47	68	28	39								
<u>Miscellaneous Food Preparations</u>																
Canned and Cured Sea Foods	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Prepared Fresh Or Frozen Fish Or Seafood	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Roasted Coffee	1.60	186	1.97	229	5.01	981	8.39	1,643	2.74	63	3.88	89	4.70	29	7.17	45
Potato Chips & Similar Snacks	1.30	119	1.63	149	2.04	623	3.53	1,076	1.47	47	2.04	65	1.67	22	2.45	32
Manufactured Ice	1.31	1	1.85	1	1.17	14	1.56	19	1.27	0 ^b	1.82	1	1.21	0 ^b	1.63	0 ^b
Macaroni and Spaghetti	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Food Preparations, N.E.C.	1.38	12	1.66	14	1.72	87	2.46	125	2.03	3	2.90	5	2.11	2	3.03	3
Total --	319	393	1,706	2,863	114	160	54	80								
Total --	1,850	2,251	10,997	17,207	568	817	341	483								
<u>Tobacco</u>																
Cigarettes	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Cigars	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Chewing and Smoking Tobacco	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Tobacco Stemming and Redrying	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --	0	0	0	0	0	0	0	0								
<u>Textiles</u>																
<u>Broadwoven Fabric Mills and Finishing</u>	1.39	143	1.78	183	1.47	1,242	2.19	1,850	1.59	53	2.33	78	1.45	39	1.95	53

Table A.13. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced
<u>Narrow Fabric Mills</u>	1.44	16	1.95	21	1.30	204	1.84	289	1.45	7	2.11	11	1.33	6	1.77	8
<u>Knitting Mills</u>																
Women's Hosiery, Except Socks	1.49	77	1.93	100	1.33	946	1.82	1,298	1.48	31	2.16	45	1.38	23	1.85	31
Hosiery, N.E.C	1.52	35	1.90	44	1.46	393	1.95	527	1.70	12	2.48	17	1.55	9	2.08	12
Knit Outerwear Mills	1.53	14	1.80	16	1.51	134	1.92	171	2.18	3	3.20	5	1.85	2	2.49	3
Knit Underwear Mills	1.29	26	1.81	36	1.14	460	1.53	616	1.19	14	1.73	20	1.15	11	1.52	14
Knit Fabric Mills	1.74	152	2.05	178	2.04	1,036	2.84	1,442	2.63	35	3.86	51	2.26	25	3.09	34
Knitting Mills, N.E.C.	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --		304		374		2,969		4,054		95		139		70		94
<u>Yard/Thread Mills</u>																
Yarn Mills and Finishing Of Textiles, N.E.C.	1.65	22	2.06	27	1.73	170	2.58	254	2.06	7	2.98	11	1.88	5	2.59	7
Thread Mills	1.43	1	1.79	1	1.51	6	2.25	9	1.54	0 ^b	2.18	0 ^b	1.61	0 ^b	2.27	0 ^b
Total --		23		28		176		262		8		11		5		7
<u>Carpets and Rugs</u>	1.61	20	1.93	24	1.84	140	2.66	203	2.40	6	3.46	8	2.31	4	3.20	5
<u>Miscellaneous Textile Goods</u>																
Coated Fabrics, Not Rubberized	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Tire Cord and Fabric	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Nonwoven Fabrics	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Cordage and Twine	1.49	51	1.90	65	1.58	430	2.40	650	1.79	19	2.65	28	1.51	14	2.04	19
Textile Goods, N.E.C	1.78	23	2.15	28	1.89	220	2.55	296	5.88	6	8.88	9	2.79	5	3.80	6
Total --		74		93		650		946		25		37		19		26
Total --		580		724		5,382		7,605		194		283		142		192
<u>Apparel</u>																
<u>Apparel Made From Purchased Materials</u>	1.41	851	1.79	1,082	1.35	9,711	1.85	13,249	1.53	311	2.23	453	1.40	227	1.89	306
<u>Misc. Fabricated Textile Products</u>																

Table A.13. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type		Type		Type		Type		Type		Type		Type			
	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced
Curtains and Draperies	1.19	1	1.66	1	1.13	8	1.54	12	1.21	0 ^b	1.81	0 ^b	1.12	0 ^b	1.46	0 ^b
Housefurnishings, N.E.C	1.29	7	1.64	9	1.34	70	1.92	101	1.39	3	1.95	4	1.42	2	2.00	2
Textile Bags	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Canvas Products	1.23	29	1.72	40	1.19	389	1.72	562	1.23	17	1.74	24	1.18	11	1.60	15
Pleating and Stitching	1.05	0 ^b	1.59	1	1.04	7	1.46	10	1.04	0 ^b	1.40	0 ^b	1.04	0 ^b	1.48	0 ^b
Automotive and Apparel Trimmings	1.27	117	1.62	149	1.37	1,040	2.02	1,536	1.40	44	2.04	64	1.30	32	1.74	43
Schiffi Machine Embroideries	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Fabricated Textile Products, N.E.C.	1.25	275	1.66	363	1.50	1,816	2.61	3,156	1.28	140	1.77	194	1.32	71	1.89	101
Total --		428		563		3,331		5,376		204		287		116		162
Total --		1,280		1,645		13,042		18,625		515		740		343		468
<i>Leather</i>																
<u>Leather Tanning and Finishing</u>	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
<u>Footwear Cut Stock</u>	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
<u>Footwear, Except Rubber</u>																
House Slippers	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Shoes, Except Rubber	1.12	0 ^b	1.40	0 ^b	1.07	2	1.31	3	1.20	0 ^b	1.71	0 ^b	1.18	0 ^b	1.60	0 ^b
Total --		0		0		2		3		0		0		0		0
<u>Leather Gloves and Mittens</u>	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
<u>Luggage</u>																
	1.19	27	1.63	37	1.23	253	1.95	399	1.18	16	1.62	22	1.22	8	1.75	11
<u>Handbags & Other Personal Leather Goods</u>																
Women's Handbags and Purses	1.02	1	1.58	1	1.01	12	1.36	16	1.01	0 ^b	1.37	1	1.01	0 ^b	1.43	0 ^b
Personal Leather Goods	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --		1		1		12		16		0		1		0		0

Table A.13. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced
<u>Leather Goods, N.E.C</u>	1.10	1	1.60	1	1.06	13	1.45	18	1.07	1	1.48	1	1.07	0 ^b	1.48	0 ^b
Total --		28		39		280		436		17		23		8		12
Secondary Agriculture Total --		3,738		4,659		29,701		43,873		1,294		1,864		835		1,154
Agriculture Total --		4,150		5,206		51,866		68,157		1,482		2,136		910		1,277
Forest & Forestry Products, Logging																
<u>Forest Products</u>	1.33	12	1.72	16	1.13	444	1.27	500	1.44	6	1.96	8	3.71	1	7.97	2
<u>Forestry Products</u>	1.29	51	1.62	64	2.29	605	3.13	826	1.57	17	2.34	26	3.71	5	7.66	11
<u>Logging Camps and Logging Contractors</u>	1.22	33	1.49	40	1.38	268	1.96	380	1.32	11	1.84	16	1.47	5	2.26	7
Forest/Forestry Products, Logging Total --		96		120		1,317		1,707		35		50		11		20
Primary Forestry																
<u>Sawmills & Planing Mills</u>																
Sawmills and Planing Mills, General	1.26	66	1.53	80	1.44	516	2.05	737	1.59	20	2.30	28	1.56	12	2.22	16
Hardwood Dimension and Flooring Mills	1.32	163	1.81	224	1.24	2,244	1.76	3,181	1.32	82	1.92	120	1.27	53	1.76	74
Special Product Sawmills, N.E.C	1.18	4	1.60	5	1.10	65	1.43	84	1.19	2	1.66	3	1.19	1	1.72	1
Total --		232		309		2,825		4,002		104		151		65		91
<u>Pulp Mills</u>	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
<u>Paper Mills, Except Building Paper</u>	1.40	34	1.77	43	1.89	215	3.12	354	1.67	13	2.41	18	1.58	8	2.20	11
<u>Paperboard Mills</u>	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Primary Forestry Total --		266		351		3,040		4,356		116		169		73		102
Secondary Forestry																
<u>Millwork, Veneer, Plywood, & Struct. Wood</u>																
Millwork	1.29	27	1.73	36	1.29	298	1.89	438	1.42	12	2.09	17	1.33	8	1.85	11

Table A.13. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced
Wood Kitchen Cabinets	1.24	72	1.70	98	1.18	1,032	1.65	1,439	1.29	36	1.88	52	1.25	22	1.75	31
Veneer and Plywood	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Structural Wood Members, N.E.C	1.26	55	1.65	73	1.34	523	2.02	789	1.41	23	2.06	34	1.35	15	1.90	20
Total --		154		206		1,853		2,666		70		103		45		63
<u>Wood Containers</u>																
Wood Containers	1.27	1	1.65	1	1.19	8	1.54	11	1.46	0 ^b	2.13	0 ^b	1.38	0 ^b	1.94	0 ^b
Wood Pallets and Skids	1.26	10	1.68	13	1.19	160	1.57	210	1.39	4	2.04	6	1.32	3	1.83	4
Total --		10		14		168		221		5		7		3		4
<u>Wood Buildings & Mobile Homes</u>																
Mobile Homes	1.21	286	1.59	377	1.26	2,656	1.93	4,061	1.26	124	1.83	180	1.25	76	1.76	107
Prefabricated Wood Buildings	1.27	83	1.64	107	1.35	812	1.99	1,193	1.43	33	2.10	48	1.36	22	1.89	30
Total --		369		484		3,467		5,255		156		228		98		137
<u>Miscellaneous Wood Products</u>																
Wood Preserving	1.33	2	1.60	2	2.01	11	3.18	18	1.94	1	2.78	1	2.11	0 ^b	3.10	0 ^b
Reconstituted Wood Products	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Wood Products, N.E.C	1.28	13	1.70	17	1.22	184	1.65	249	1.39	6	2.02	8	1.35	3	1.91	5
Gum and Wood Chemicals	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --		15		19		196		267		6		9		4		5
<u>Household Furniture</u>																
Wood Household Furniture	1.32	233	1.75	309	1.31	2,734	1.88	3,904	1.44	102	2.11	148	1.36	68	1.88	94
Upholstered Household Furniture	1.29	565	1.68	738	1.32	6,105	1.90	8,787	1.43	227	2.10	334	1.33	162	1.82	221
Mattresses and Bedsprings	1.31	12	1.65	15	1.39	128	1.90	176	1.57	4	2.29	6	1.47	3	2.02	4
Wood TV and Radio Cabinets	1.30	120	1.70	157	1.31	1,130	1.97	1,699	1.44	47	2.14	70	1.31	35	1.79	47
Household Furniture, N.E.C	1.49	17	1.97	23	1.24	232	1.70	318	1.52	7	2.25	11	1.36	5	1.83	7
Total --		948		1,242		10,328		14,883		386		568		273		374
<u>Wood Office Furniture</u>																
	1.26	0 ^b	1.77	1	1.27	4	1.93	7	1.30	0 ^b	1.93	0 ^b	1.22	0 ^b	1.65	0 ^b
<u>Public Building Furniture</u>																
	1.29	52	1.64	67	1.64	354	2.67	577	1.50	20	2.17	29	1.46	12	2.06	17

Table A.13. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced
<u>Wood Partitions and Fixtures</u>	1.27	24	1.71	32	1.21	353	1.65	480	1.36	11	2.01	16	1.26	8	1.73	10
<u>Miscellaneous</u>																
Blinds, Shades, and Drapery Hardware	1.28	1	1.68	1	1.31	8	1.92	11	1.39	0 ^b	2.00	0 ^b	1.34	0 ^b	1.87	0 ^b
Furniture and Fixtures, N.E.C.	1.02	249	1.19	292	1.03	1,293	1.56	1,953	1.03	64	1.46	91	1.03	37	1.43	52
Total --		250		293		1,300		1,964		65		91		38		52
<u>Paperboard Containers and Boxes</u>	1.25	196	1.59	248	1.52	1,301	2.49	2,130	1.45	70	2.13	103	1.32	52	1.79	70
<u>Converted Paper & Paperboard Products</u>																
Paper Coated & Laminated Packaging	1.30	42	1.65	53	1.66	246	2.84	422	1.43	16	2.05	23	1.39	10	1.92	14
Paper Coated & Laminated N.E.C.	1.28	12	1.65	15	1.56	76	2.66	129	1.38	5	1.97	7	1.35	3	1.88	4
Bags, Paper	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Die-cut Paper and Board	1.22	8	1.61	10	1.37	59	2.30	100	1.27	4	1.83	5	1.24	2	1.72	3
Sanitary Paper Products	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Envelopes	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Stationery Products	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Converted Paper Products, N.E.C.	1.32	129	1.67	163	1.57	958	2.43	1,484	1.56	48	2.24	69	1.50	29	2.11	41
Total --		191		242		1,339		2,134		73		104		45		62
Secondary Forestry Total --		2,208		2,848		20,664		30,585		862		1,257		576		795
Forestry Total --		2,571		3,319		25,021		36,648		1,013		1,476		661		918
Agriculture & Forestry Total --		6,720		8,525		76,887		104,804		2,495		3,612		1,571		2,195

^a Totals may not add due to rounding.

^b Values of zero are nonzero values less than 1.

Table A.14. Tri-Cities Region: Total Impacts from Agriculture and Forestry ^a

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced
<i>Agricultural Inputs</i>																
<i>Agricultural Chemicals</i>																
Nitrogenous and Phosphatic Fertilizers	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Fertilizers, Mixing Only	1.28	1	1.45	1	1.75	6	2.44	8	1.93	0 ^b	2.62	0 ^b	1.70	0 ^b	2.19	0 ^b
Agricultural Chemicals, N.E.C	1.29	4	1.54	5	2.58	16	4.53	29	1.35	2	1.69	2	1.63	1	2.22	1
Total --	5		6		22		37		2		2		1		1	
<i>Agricultural Machinery</i>																
Farm Machinery and Equipment	1.33	4	1.55	4	1.58	28	2.20	38	1.55	1	2.03	2	1.59	1	2.10	1
Lawn and Garden Equipment	1.29	68	1.49	78	1.80	382	2.63	559	1.53	21	1.98	28	1.67	11	2.23	15
Total --	72		83		409		597		23		29		12		16	
<i>Agricultural Inputs Total --</i>	76		88		431		634		24		32		13		17	
<i>Primary Agriculture</i>																
Dairy Farm Products	1.24	34	1.49	40	1.49	881	1.69	997	1.41	12	1.91	16	1.64	4	2.60	6
Poultry and Eggs	1.15	15	1.32	17	1.20	218	1.40	254	1.32	4	1.76	5	1.53	2	2.29	2
Ranch Fed Cattle	1.45	51	1.68	59	1.38	2,575	1.45	2,721	1.82	15	2.47	20	2.09	5	3.33	8
Range Fed Cattle	1.64	4	1.92	5	1.60	183	1.70	195	1.91	1	2.61	2	2.20	0 ^b	3.63	1
Cattle Feedlots	1.41	3	1.63	3	2.01	47	2.33	55	1.82	1	2.48	1	2.08	0 ^b	3.27	0 ^b
Sheep, Lambs and Goats	1.37	0 ^b	1.59	0 ^b	1.15	38	1.16	38	1.71	0 ^b	2.34	0 ^b	1.91	0 ^b	3.02	0 ^b
Hogs, Pigs and Swine	1.26	0 ^b	1.43	0 ^b	1.04	122	1.05	123	1.75	0 ^b	2.35	0 ^b	1.99	0 ^b	3.11	0 ^b
Other Meat Animal Products	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Miscellaneous Livestock	1.21	3	1.45	4	1.03	689	1.05	699	1.33	1	1.77	1	1.40	0 ^b	2.01	1
Cotton	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Food Grains	1.12	0 ^b	1.46	0 ^b	1.02	12	1.11	13	1.10	0 ^b	1.39	0 ^b	1.75	0 ^b	4.88	0 ^b
Feed Grains	1.12	1	1.44	2	1.02	99	1.09	106	1.10	1	1.41	1	1.78	0 ^b	5.11	0 ^b
Hay and Pasture	1.20	35	1.46	43	1.02	4,850	1.05	4,985	1.27	16	1.64	21	2.42	3	5.17	5
Grass Seeds	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Tobacco	1.26	50	1.45	58	1.04	3,613	1.08	3,751	1.57	16	2.06	21	1.61	7	2.31	10

Table A.14. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced
Fruits	1.22	0 ^b	1.52	0 ^b	1.03	38	1.08	40	1.27	0 ^b	1.70	0 ^b	1.23	0 ^b	1.64	0 ^b
Tree Nuts	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Vegetables	1.20	16	1.52	20	1.29	214	1.72	287	1.20	8	1.57	11	1.29	3	1.90	5
Sugar Crops	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Miscellaneous Crops	1.18	0 ^b	1.36	0 ^b	1.08	3	1.14	4	1.42	0 ^b	1.92	0 ^b	1.71	0 ^b	2.74	0 ^b
Oil Bearing Crops	1.07	0 ^b	1.46	0 ^b	1.01	22	1.10	24	1.05	0 ^b	1.34	0 ^b	1.19	0 ^b	2.82	0 ^b
Greenhouse and Nursery Products	1.14	10	1.49	12	1.06	663	1.13	712	1.12	7	1.41	8	1.15	2	1.63	3
Agricultural, Forestry, Fishery Services	1.24	2	1.62	2	1.13	64	1.28	73	1.22	1	1.66	1	1.20	0 ^b	1.64	1
Landscape and Horticultural Services	1.14	23	1.60	32	1.13	1,025	1.31	1,184	1.12	17	1.50	23	1.10	9	1.51	12
Primary Agriculture Total --		247		298		15,358		16,261		99		131		36		55
Secondary Agriculture																
<u>Food & Kindred Products</u>																
Meat Packing Plants	1.08	7	1.18	8	1.36	26	1.98	38	1.32	1	1.80	2	1.22	1	1.56	1
Sausages and Other Prepared Meats	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Poultry Processing	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --		7		8		26		38		1		2		1		1
<u>Dairy Products</u>																
Creamery Butter	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Cheese, Natural and Processed	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Condensed and Evaporated Milk	1.38	117	1.54	130	2.32	519	3.32	742	2.05	24	2.74	32	1.83	16	2.36	21
Ice Cream and Frozen Desserts	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Fluid Milk	1.25	97	1.39	108	1.97	412	2.87	601	1.73	20	2.31	27	1.61	13	2.09	17
Total --		214		238		930		1,344		45		60		29		38
<u>Canned, Frozen, & Preserved Fruits</u>																
Canned Specialties	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Canned Fruits and Vegetables	1.31	24	1.56	29	1.84	156	2.78	235	1.49	9	1.96	12	1.45	6	1.88	7
Dehydrated Food Products	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Pickles, Sauces, and Salad Dressings	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0

Table A.14. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type		Type		Type		Type		Type		Type		Type			
	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced
Frozen Fruits, Juices and Vegetables	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Frozen Specialties	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --	24		29		156		235		9		12		6		7	
<u>Grain Mill Products</u>																
Flour and Other Grain Mill Products	1.31	22	1.56	26	2.58	103	4.40	176	1.67	8	2.23	10	1.53	5	2.00	7
Cereal Preparations	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Rice Milling	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Blended and Prepared Flour	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Wet Corn Milling	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Dog, Cat, and Other Pet Food	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Prepared Feeds, N.E.C	1.24	7	1.39	7	2.17	25	3.32	39	1.89	1	2.53	2	1.73	1	2.25	1
Total --	29		34		128		215		9		12		6		8	
<u>Bakery Products</u>																
Bread, Cake, and Related Products	1.27	59	1.55	71	1.50	476	2.17	690	1.35	25	1.77	33	1.30	16	1.65	21
Cookies and Crackers	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --	59		71		476		690		25		33		16		21	
<u>Sugar & Confectionary Products</u>																
Sugar	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Confectionery Products	1.33	1	1.56	1	1.91	6	2.80	8	1.49	0 ^b	1.90	0 ^b	1.64	0 ^b	2.17	0 ^b
Chocolate and Cocoa Products	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Chewing Gum	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Salted and Roasted Nuts & Seeds	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --	1		1		6		8		0		0		0		0	
<u>Fats & Oils</u>																
Cottonseed Oil Mills	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Soybean Oil Mills	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Vegetable Oil Mills, N.E.C	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Animal and Marine Fats and Oils	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0

Table A.14. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced
Shortening and Cooking Oils	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --	0		0		0		0		0		0		0		0	
<u>Beverages</u>																
Malt Beverages	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Malt	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Wines, Brandy, and Brandy Spirits	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Distilled Liquor, Except Brandy	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Bottled and Canned Soft Drinks & Water	1.31	21	1.48	24	2.25	111	3.24	160	1.84	6	2.43	7	1.84	3	2.41	4
Flavoring Extracts and Syrups, N.E.C.	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --	21		24		111		160		6		7		3		4	
<u>Miscellaneous Food Preparations</u>																
Canned and Cured Sea Foods	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Prepared Fresh Or Frozen Fish Or Seafood	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Roasted Coffee	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Potato Chips & Similar Snacks	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Manufactured Ice	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Macaroni and Spaghetti	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Food Preparations, N.E.C.	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --	0		0		0		0		0		0		0		0	
Total --	355		404		1,833		2,689		95		126		62		80	
<u>Tobacco</u>																
Cigarettes	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Cigars	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Chewing and Smoking Tobacco	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Tobacco Stemming and Redrying	1.66	6	1.83	6	3.70	23	5.25	33	3.01	1	4.00	1	3.03	1	4.03	1
Total --	6		6		23		33		1		1		1		1	
<u>Textiles</u>																
Broadwoven Fabric Mills and Finishing	1.40	193	1.67	231	1.50	1,833	2.02	2,471	1.74	67	2.34	90	1.62	50	2.04	63

Table A.14. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type		Type		Type		Type		Type		Type		Type			
	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced
<u>Narrow Fabric Mills</u>	1.33	0 ^b	1.75	0 ^b	1.32	3	1.92	4	1.33	0 ^b	1.80	0 ^b	1.28	0 ^b	1.59	0 ^b
<u>Knitting Mills</u>																
Women's Hosiery, Except Socks	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Hosiery, N.E.C.	1.38	0 ^b	1.63	0 ^b	1.33	4	1.70	5	1.54	0 ^b	2.07	0 ^b	1.43	0 ^b	1.80	0 ^b
Knit Outerwear Mills	1.58	9	1.77	10	1.54	90	1.86	109	2.70	2	3.65	3	2.32	1	2.93	2
Knit Underwear Mills	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Knit Fabric Mills	1.70	75	1.95	86	2.09	514	2.86	705	2.37	19	3.22	26	2.17	15	2.74	19
Knitting Mills, N.E.C.	1.49	0 ^b	1.71	0 ^b	1.35	4	1.63	5	2.03	0 ^b	2.75	0 ^b	1.89	0 ^b	2.38	0 ^b
Total --		85		97		612		824		22		29		16		21
<u>Yarn/Thread Mills</u>																
Yarn Mills and Finishing Of Textiles, N.E.C.	1.55	155	1.88	188	1.80	1,293	2.59	1,860	2.05	60	2.76	80	2.04	43	2.59	55
Thread Mills	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --		155		188		1,293		1,860		60		80		43		55
<u>Carpets and Rugs</u>	1.55	1	1.82	1	1.98	5	2.81	7	2.30	0 ^b	3.08	0 ^b	2.42	0 ^b	3.07	0 ^b
<u>Miscellaneous Textile Goods</u>																
Coated Fabrics, Not Rubberized	1.42	102	1.68	120	1.92	710	2.77	1,023	2.03	31	2.77	42	1.75	24	2.22	31
Tire Cord and Fabric	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Nonwoven Fabrics	1.39	14	1.66	17	2.32	78	3.76	126	1.57	6	2.03	8	1.72	3	2.22	4
Cordage and Twine	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Textile Goods, N.E.C.	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --		116		137		788		1,149		37		50		28		35
Total --		550		654		4,534		6,314		185		250		138		174
<u>Apparel</u>																
<u>Apparel Made From Purchased Materials</u>	1.37	225	1.63	266	1.34	2,719	1.69	3,430	1.49	76	1.99	102	1.37	56	1.73	71

Table A.14. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type		Type		Type		Type		Type		Type		Type			
	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced
<u>Misc. Fabricated Textile Products</u>																
Curtains and Draperies	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Housefurnishings, N.E.C	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Textile Bags	1.25	10	1.52	12	1.21	130	1.54	166	1.30	4	1.73	5	1.26	3	1.60	4
Canvas Products	1.20	3	1.53	3	1.17	37	1.57	49	1.18	1	1.54	2	1.15	1	1.45	1
Pleating and Stitching	1.05	1	1.41	2	1.03	33	1.26	40	1.03	1	1.28	1	1.04	1	1.34	1
Automotive and Apparel Trimmings	1.30	0 ^b	1.49	0 ^b	1.35	2	1.66	3	1.69	0 ^b	2.26	0 ^b	1.53	0 ^b	1.95	0 ^b
Schiffi Machine Embroideries	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Fabricated Textile Products, N.E.C.	1.24	1	1.47	1	1.38	8	1.88	10	1.32	0 ^b	1.68	0 ^b	1.39	0 ^b	1.82	0 ^b
Total --		15		18		209		268		7		9		4		6
Total --		239		285		2,928		3,698		83		111		61		76
<u>Leather</u>																
<u>Leather Tanning and Finishing</u>	1.38	3	1.53	4	1.72	21	2.25	27	2.00	1	2.65	1	1.89	0 ^b	2.43	1
<u>Footwear Cut Stock</u>	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
<u>Footwear, Except Rubber</u>																
House Slippers	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Shoes, Except Rubber	1.33	22	1.62	27	1.27	317	1.60	398	1.31	10	1.72	12	1.30	6	1.63	8
Total --		22		27		317		398		10		12		6		8
<u>Leather Gloves and Mittens</u>	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
<u>Luggage</u>	1.17	0 ^b	1.45	0 ^b	1.20	2	1.71	2	1.13	0 ^b	1.42	0 ^b	1.17	0 ^b	1.52	0 ^b
<u>Handbags & Other Personal Leather Goods</u>																
Women's Handbags and Purses	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Personal Leather Goods	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --		0		0		0		0		0		0		0		0

Table A.14. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced
<u>Leather Goods, N.E.C</u>	1.13	2	1.47	2	1.06	33	1.33	41	1.07	1	1.36	1	1.07	1	1.36	1
Total --		28		33		372		468		11		15		7		9
Secondary Agriculture Total --		1,177		1,382		9,690		13,203		376		503		268		340
Agriculture Total --		1,500		1,769		25,479		30,097		500		667		317		412
Forest & Forestry Products, Logging																
<u>Forest Products</u>	1.19	6	1.45	8	1.07	290	1.15	313	1.20	3	1.48	4	2.34	0 ^b	4.69	1
<u>Forestry Products</u>	1.20	39	1.33	43	1.72	521	1.98	597	2.01	7	2.74	10	1.98	4	2.80	6
<u>Logging Camps and Logging Contractors</u>	1.12	10	1.29	12	1.25	80	1.65	106	1.19	3	1.51	4	1.28	1	1.79	2
Forest/Forestry Products, Logging Total --		56		62		891		1,017		14		19		6		9
Primary Forestry																
<u>Sawmills & Planing Mills</u>																
Sawmills and Planing Mills, General	1.24	51	1.44	59	1.43	398	1.91	533	1.49	15	1.98	20	1.48	9	1.95	11
Hardwood Dimension and Flooring Mills	1.32	40	1.69	51	1.26	507	1.73	698	1.27	20	1.69	27	1.22	13	1.57	17
Special Product Sawmills, N.E.C	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --		91		110		906		1,231		35		47		22		29
<u>Pulp Mills</u>	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
<u>Paper Mills, Except Building Paper</u>	1.34	254	1.61	306	1.87	1,524	2.98	2,426	1.45	101	1.92	133	1.40	65	1.80	83
<u>Paperboard Mills</u>	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Primary Forestry Total --		345		416		2,430		3,657		136		180		87		112
Secondary Forestry																
<u>Millwork, Veneer, Plywood, & Struct. Wood</u>																
Millwork	1.28	0 ^b	1.56	0 ^b	1.26	4	1.62	6	1.46	0 ^b	1.98	0 ^b	1.39	0 ^b	1.81	0 ^b

Table A.14. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced	Type I	Indirect	Type SAM	Induced
Wood Kitchen Cabinets	1.23	5	1.57	6	1.19	66	1.61	90	1.23	3	1.64	3	1.19	2	1.54	2
Veneer and Plywood	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Structural Wood Members, N.E.C	1.23	24	1.50	29	1.31	227	1.82	315	1.35	9	1.81	13	1.29	6	1.69	8
Total --		29		36		297		411		12		16		8		10
<u>Wood Containers</u>																
Wood Containers	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Wood Pallets and Skids	1.21	7	1.51	9	1.18	117	1.50	149	1.27	3	1.72	4	1.23	2	1.59	3
Total --		7		9		117		149		3		4		2		3
<u>Wood Buildings & Mobile Homes</u>																
Mobile Homes	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Prefabricated Wood Buildings	1.21	0 ^b	1.47	0 ^b	1.29	3	1.77	4	1.32	0 ^b	1.78	0 ^b	1.27	0 ^b	1.66	0 ^b
Total --		0		0		3		4		0		0		0		0
<u>Miscellaneous Wood Products</u>																
Wood Preserving	1.29	54	1.46	61	1.93	304	2.71	426	1.92	14	2.52	18	2.11	7	2.85	10
Reconstituted Wood Products	1.31	19	1.53	22	1.70	117	2.48	170	1.44	7	1.84	9	1.60	3	2.16	4
Wood Products, N.E.C	1.23	10	1.54	13	1.20	144	1.57	187	1.28	5	1.71	6	1.26	3	1.63	4
Gum and Wood Chemicals	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --		82		95		565		784		25		33		13		18
<u>Household Furniture</u>																
Wood Household Furniture	1.33	77	1.62	95	1.31	936	1.73	1,235	1.42	32	1.91	42	1.35	21	1.73	27
Upholstered Household Furniture	1.27	19	1.56	23	1.32	200	1.80	274	1.35	7	1.83	10	1.28	5	1.63	7
Mattresses and Bedsprings	1.25	3	1.48	3	1.33	26	1.74	34	1.39	1	1.87	1	1.34	1	1.71	1
Wood TV and Radio Cabinets	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Household Furniture, N.E.C	1.28	2	1.59	2	1.18	26	1.51	34	1.32	1	1.81	1	1.23	1	1.55	1
Total --		101		123		1,189		1,576		41		55		27		35
<u>Wood Office Furniture</u>																
Wood Office Furniture	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
<u>Public Building Furniture</u>																
Public Building Furniture	1.29	15	1.51	18	1.61	111	2.24	155	1.57	5	2.09	6	1.55	3	2.04	4

Table A.14. (Continued)

Sector	TIO (million \$)				Employment (number)				TVA (million \$)				Wages (million \$)			
	Type		Type		Type		Type		Type		Type		Type			
	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced	I	Indirect	SAM	Induced
<u>Wood Partitions and Fixtures</u>	1.26	0 ^b	1.62	0 ^b	1.23	4	1.67	6	1.27	0 ^b	1.72	0 ^b	1.19	0 ^b	1.51	0 ^b
<u>Miscellaneous</u>																
Blinds, Shades, and Drapery Hardware	1.29	0 ^b	1.54	0 ^b	1.29	3	1.68	5	1.40	0 ^b	1.85	0 ^b	1.36	0 ^b	1.76	0 ^b
Furniture and Fixtures, N.E.C	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Total --	0		0		3		5		0		0		0		0	
<u>Paperboard Containers and Boxes</u>	1.23	66	1.45	78	1.47	457	2.14	663	1.44	21	1.95	28	1.32	15	1.68	20
<u>Converted Paper & Paperboard Products</u>																
Paper Coated & Laminated Packaging	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Paper Coated & Laminated N.E.C.	1.27	14	1.46	16	1.47	112	1.94	147	1.62	4	2.14	5	1.60	2	2.09	3
Bags, Paper	1.25	2	1.50	2	1.52	12	2.30	18	1.34	1	1.77	1	1.30	0 ^b	1.66	1
Die-cut Paper and Board	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Sanitary Paper Products	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Envelopes	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Stationery Products	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Converted Paper Products, N.E.C	1.28	211	1.50	246	1.51	1,650	2.07	2,267	1.54	69	2.03	91	1.49	42	1.94	55
Total --	227		265		1,774		2,432		74		97		45		59	
Secondary Forestry Total --	528		624		4,521		6,184		181		241		114		148	
Forestry Total --	929		1,103		7,843		10,857		331		439		207		269	
Agriculture & Forestry Total --	2,429		2,872		33,322		40,955		831		1,106		524		681	

^a Totals may not add due to rounding.

^b Values of zero are nonzero values less than 1.