

ECONOMIC IMPACT OF HOSPITALS: THE CASE OF BAYLOR REGIONAL
MEDICAL CENTER AT GRAPEVINE

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This report analyzes the economic impacts of the Baylor Regional Medical Center at Grapevine, Texas. The economic impacts are analyzed using the IMPLAN impact modeling system developed by the Minnesota IMPLAN Group. The analysis evaluates construction activities by Baylor-Grapevine as well as procurement spending and employment. Additionally, the impact of ancillary facilities surrounding Baylor-Grapevine and the impact of patient visitor spending is also reviewed. Total recurring impacts of procurement spending at Baylor-Grapevine, employment at Baylor-Grapevine and its ancillary facilities, and visitor spending will generate over \$227 million in economic activity for the Dallas/Fort Worth Metroplex. This activity will support more than 3,300 direct, indirect, and induced jobs paying over \$138 million in annual earnings.

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CHAPTER 1

INTRODUCTION

The hospital and health care industry in the United States has demonstrated strong growth for nearly two decades and shows no signs of slowing. Some of the largest companies now are either in pharmaceutical research and production or in the manufacture of medical devices. Additionally, it seems that every state across the country is focused on attracting biomedical companies to their cities. With all of this clamoring to enter the health care game, local hospitals often struggle to convince local policy makers of their contributions to the regional economy and value as critical community assets, especially during times of economic hardship. In order to quantify their contributions to the local economy, Baylor Regional Medical Center at Grapevine, Texas requested an economic and fiscal impact analysis of their direct and ancillary operations.

Baylor Regional Medical Center at Grapevine has been providing services to the mid-cities area of the Dallas/Fort Worth Metroplex (Table 1) since 1953 when it began as the Grapevine Clinic and Hospital. Over time, the hospital became Grapevine Memorial Hospital and in 1981 joined the Baylor Health Care System. Recently, Baylor Medical Center at Grapevine has undergone a substantial expansion of services and has become Baylor Regional Medical Center at Grapevine (Baylor-Grapevine) to reflect its target market expansion to a more regional focus. Baylor-Grapevine serves patients located in Northeast Tarrant, Southern Denton, and Northwest Dallas Counties, though patients also travel from outside of the region to take advantage of special services.

During fiscal year 2003, Baylor-Grapevine cared for nearly 80,000 patients and delivered over 2,500 babies.

Table 1

Dallas/Fort Worth Metroplex Counties

Collin	Johnson
Dallas	Kaufman
Delta	Parker
Denton	Rockwall
Ellis	Tarrant
Hunt	Wise

Beyond the medical care Baylor-Grapevine provides to the community, they serve as an important economic engine for the region, employing over 1,000 people and purchasing over \$112 million in goods and services annually. Additionally, the presence of Baylor-Grapevine has encouraged the development of several ancillary facilities located in Southlake, Flower Mound, Colleyville, and Grapevine, which provide additional employment and economic opportunities in the region.

The following offers an assessment of the economic and fiscal impacts Baylor-Grapevine has had on the Dallas/Fort Worth Metroplex. The first component will consist of a review of the academic and professional literature regarding the impacts of hospitals on regional economies. Second, the economic impacts are calculated using the IMPLAN impact modeling system developed by the Minnesota IMPLAN Group (1999), for recent one-time capital expenditures, ongoing operations, and fiscal impacts.

This section will also discuss charitable giving by the hospital. Finally, some conclusions are offered along with an assessment of the role of hospitals in economic and community development strategies.

CHAPTER 2

LITERATURE REVIEW

Over the years, numerous researchers have explored the impacts of hospitals on regions of varying sizes. Typically, these reports reveal that hospitals prove to be a valuable source of economic activity and jobs for the areas under review. One difference that stands out among these reports is the way in which they are conducted. While many researchers now use prepackaged economic impact modeling software like REMI and IMPLAN (Calcagno, Cuffe, Schwartz, & von Freymann, 2003; Miller, 1995; Otto & Artz, 2002; Scorsone, Garcia, & Adams, 2001; Shields, 2003), others have relied on RIMS II tables constructed by the U.S. Bureau of Economic Analysis (Rexhausen, Kelton, & Schlafer, 2003), and special state developed input-output models (Beyers, 2003).

Earlier reports, primarily from the 1980's, used standard equations to calculate the direct impacts and multipliers to be used in the assessment of indirect and induced impacts (Erickson, Gavin, & Cordes, 1986; Ovedovitz, 1984; Polzin, 1981; Tuckman, 1984; Vaughn, Hilsenrath, & Ludke, 1994). No one method stands out as being better than another, though the modern usage of the REMI and IMPLAN models does seem to provide more consistency in the research across all regions.

Another difference in the research surrounds the circumstances under which the review is conducted, either the impact of existing hospitals or the impact of a hospital closure. The reports that look at existing hospitals focus on the overall impact hospitals have on a particular region, noting that spending and employment greatly contribute to the economic vitality of a region. Specifically, Calcagno, Cuffe, Schwartz, and von

Freymann (2003), report in their case study of Union Regional Medical Center in Union County, North Carolina, that the hospital provides a total impact of \$61.8 million where as the healthcare industry provides a total impact of \$153.5 million. In this study, the researchers entered hospital/healthcare industry output and employment data into IMPLAN to assess the economic impacts on the community, much like the analysis of Baylor-Grapevine. Similarly, Tuckman (1984) also uses the basic economic impact analysis components of employment, capital expenditures, and capital improvements to conclude that the total impact of the Memphis healthcare sector exceeds \$1 billion. The Memphis analysis also includes an accounting of hospital visitor spending impacts. However, the Memphis study did not include spending by families and others who accompany patients to the region.

Polzin's (1981) report, however, drills deeper to assess the impact of Montana's entire health care industry. The Polzin analysis focuses on Montana's major urban areas of Cascade, Lewis and Clark, Missoula, and Yellowstone counties. Overall the study found that growth of the health care industry exceeded overall economic growth in all counties except Lewis and Clark, which had suffered a hospital closure. Additionally, Polzin found that in each of the counties except Lewis and Clark, the health care industry accounted for approximately 4% to 5% of all economic activity.

Vaughn, Hilsenrath, and Ludke (1994) go on to note that hospitals may also serve to be a stabilizing force in the economy during times of economic downturn due to the fact that most income generated is collected from a third party. In addition, many of the reports look beyond the present analysis to note that health care will become the main economic engine in the next decade due to the prevalence of health related

companies in pharmaceuticals and biomedicine (Scorsone et al., 2001; Tuckman, 1984; Vaughn et al., 1994). This increased prevalence is often attributed to the ageing American population.

Rexhausen, Kelton, and Schlafer (2003) note that hospitals can also provide benefits in addition to those described in traditional measures of economic impact. These other impacts include national prominence and research and education benefits. For example, University hospitals often receive large grants to conduct research that is on the cutting edge of technology. This research can often lead to the attraction and growth of firms involved in similar research and development projects. Along the same lines, hospitals involved in cutting edge research create an aura around the community in which it is located. This can aid in attracting new corporate citizens, health related and otherwise, thus increasing the economic base of a community.

Hospitals serving as an attraction to other businesses is exemplified by Cincinnati Children's Hospital Medical Center. Rexhausen, Kelton, and Schlafer (2003) note that "as a member of the elite 'Big Six'¹ children's hospitals, Cincinnati Children's excellent reputation spills over to other businesses and neighboring medical institutions in the Cincinnati community" (p. 18). More over, the report notes that the department of pediatrics was ranked among the top five pediatric programs at medical schools in the United States. This ranking is just one way in which national prominence has been established at Cincinnati Children's and will aid in encouraging students from across the US to locate in the Cincinnati area. These students are also likely to stay in the region after graduation, which increases the intellectual capital in Cincinnati.

¹ The other members of the Big Six are located in Boston, Philadelphia, Atlanta, Houston, and Los Angeles.

Along the same theme, nearly all of the research makes mention of the important role quality healthcare plays in quality of life components of economic development attractiveness (Calcagno et al., 2003; Otto & Artz, 2002; Rexhausen et al., 2003; Shields, 2003).

Miller (1995) focuses on the employment effects of a hospital closure. His report, conducted in Huntsville, Arkansas, concludes that the jobs and income derived from the hospital is proportionately small compared to the total employment and income in the county, however when the spin off effects are taken into account the impact increases. Specifically, Miller notes that impacts depend entirely on whether or not employees are able to find new jobs in the community. In the first scenario presented, all of the employees are forced to move out of the county where the hospital is located. According to Miller, this subsequently results in the loss of additional jobs in other industries due to declining sales to the hospital and former hospital employees. In this example, the overall effects of a hospital closure would result in a loss of 92 jobs, 70 direct and 22 indirect. Additionally, business sales would be reduced by \$4.6 million resulting in a profit loss of \$236,000.

The second scenario presented by Miller (1995) is more realistic in that some of the employees of the hospital will be able to find other jobs within the community or neighboring communities, while maintaining their residence. In addition, some employees who are laid off will generate income from other sources such as unemployment and transfer payments. Sales are also not affected as intensely in this scenario because many residents of this county already purchase goods and services in bordering counties. The only impacts that will remain the same are the impacts on the

hospital suppliers. Overall, the impacts of the hospital closure in this scenario are reduced to a loss of 3.5 net jobs, with business sales reduced by \$241,000 and profit losses of \$60,000.

Ovedovitz (1984), looking at the possibility of closing a state mental health hospital in an effort to cut costs, makes similar claims and further supports the idea that a hospital closure also affects general economic activity of a region including insurance rolls, welfare rolls, retail sales and sales tax revenue. Essentially, the economic activity stimulated by the presence of a hospital is not entirely reversed due to closure, but the impacts are significant if employees cannot be reabsorbed into the economy and sales cannot be recaptured by supplier industries.

Overall, the literature regarding the impacts of hospitals on various regions centers on many of the same themes. Impacts from spending and employment create numerous indirect and induced impacts in the community that would be hard pressed to replace if a closure were to occur. Additionally, many of the reports cite other impacts from hospitals like quality of life, area prestige, and research and education that aid in increasing economic activity in a region. One note of caution would be that no single report addresses all of the impacts made by the hospital sector. Specifically, most economic impact analyses provide a snap shot in time of a hospitals impact. Any decline in procurement or services could result in the decline of a hospitals impact. This report will add to the pool of literature by exploring the impacts of a community hospital on a large metropolitan region consisting of 12 counties. Additionally, this analysis attempts to quantify the impacts of patient visitor spending in the community.

CHAPTER 3

RESEARCH METHODOLOGY

Direct economic impacts represent direct spending for goods and services by Baylor-Grapevine and by the construction contractors involved in the new construction projects that are being evaluated. Indirect impacts occur when Baylor-Grapevine's vendors spend money in the local economy to support their business operations. Finally, induced impacts are those that result from employees spending a portion of their earnings in the area for groceries, household goods, and other durable and non-durable goods. In addition to examining the impacts that construction, employment and spending at Baylor-Grapevine have on the region, I will explore impacts that aren't as easily quantified but are nonetheless important.

Estimates of the economic impacts for the Dallas/Fort Worth Metroplex are calculated using the IMPLAN input/output modeling system developed by the Minnesota IMPLAN Group (1999). IMPLAN, originally developed by the United States Department of Agriculture (USDA) Forest Service, in cooperation with Federal Emergency Management Administration (FEMA) and the Bureau of Land Management, is a non-survey based input-output model that generates regional accounts for counties, states, and combinations thereof (Crihfield & Campbell, 1991). IMPLAN is not the only type of impact modeling method. Researchers have also used REMI, a similar impact modeling software program, RIMS II tables constructed by the U.S. Bureau of Economic Analysis, and special state-developed and proprietary input-output models. However, IMPLAN is widely used by academic and professional researchers and is generally regarded as providing adequate quality impact estimates.

Measures of Economic Impact

Construction and procurement impacts were calculated using data provided by Baylor-Grapevine. Procurement data were shown as direct voucher purchases and purchase order (PO) purchases. The direct voucher purchase information did not provide information about the type of goods or services being purchased; therefore this set of data was totaled and entered into the model coded “hospital” for the industry. Conversely, the majority of the PO data indicates the items purchased, be it laundry or medical supplies, and was entered into the model corresponding to the most appropriate commodity code. For describing purchases less than \$10,000, detailed commodity separation was not performed and these amounts were coded for the “hospital” industry.

The total area economic impacts of employment were calculated using income ranges provided by Baylor-Grapevine. The data were presented as total wage and salary paid in three income categories: <30k = \$8,763,043, 30k-50k = \$9,965,837, and >50K = \$17,227, 691. These categories were first reduced by 15% to estimate disposable income and then entered into the household spending model that corresponds with each salary range to generate the employment multiplier. Next, the direct, indirect, and induced employment impacts were generated by taking the total FTE (full-time equivalency) of Baylor-Grapevine and multiplying it by the employment multiplier, 1.591. Similarly, multiplying the total wage and salary for Baylor-Grapevine by the income multiplier of 1.057739 generated the direct, indirect, and induced income impacts.

Visitor Spending impacts were estimated by first determining the total number of patients that came from outside of the Dallas/Fort Worth Metroplex. For out-patients, a list of patients by billing zip code was cross-referenced to determine the proportion of patients residing outside the local area. In total, 4% of the out-patients were from outside the metroplex. Based on data provided by Baylor-Grapevine, 22% of in-patients are from outside of the state of Texas. It is estimated that an additional 12% of in-patients reside in Texas but are outside of the Dallas/Fort Worth Metroplex. It is likely that this last proportion is underestimated but this contributes to the conservative nature of the impact estimates.

Once the total number of in-patients and out-patients were calculated, estimations were made as to how many visitors would accompany each patient and how long they would stay. For out-patients, it was estimated that there was an average of 1.5 people per group and they would stay an average of 1.5 days. For in-patients, the estimation of people per group remained the same, but the average length of stay increased to 3.72, a number provided by Baylor-Grapevine. The total number of visitors for each group was then multiplied by the average price per night on items typically purchased by visitors: \$58/night for lodging, \$24/night for food and beverages, \$15/per night for retail goods, and \$7.50/night for transportation². These totals were then multiplied by the average number of nights, either 1.5 or 3.72, to estimate the total spending by patient visitors to the area. This spending was then entered into the IMPLAN model to calculate total impacts on the Dallas/Fort Worth region.

² Information on average amount spent per visitor night was obtained from the Greater Dallas Convention and Visitors Bureau.

Estimates of the potential direct, indirect, and induced sales taxes generated by the construction and procurement activities were made by evaluating the IMPLAN output. The IMPLAN sectors subject to sales tax³ were evaluated and multiplied by the average sales tax of 8.25% to get the fiscal impacts of construction and procurement. In this calculation, the total impacts of food stores were divided in half, as not all food items are subject to tax, and auto sales were multiplied by 6% as opposed to 8.25%. Lastly, other fiscal impacts and charitable contributions were generated directly from data provided by Baylor-Grapevine.

³ Wholesale goods, building and gardening, food stores, general merchandise, automotive dealers and service stations, apparel, furniture and home furnishings, eating and drinking establishments, and miscellaneous retail.

CHAPTER 4

RESEARCH FINDINGS

Onetime Impacts

The following reports the estimated economic and fiscal impacts that correspond to the \$50 million in construction projects recently completed by Baylor-Grapevine. This construction activity has generated \$89 million in total area economic activity and supported 843 person-years⁴ of employment paying more than \$33 million in wages over the length of construction activity (Table 2). Additionally, the construction activities undertaken by Baylor-Grapevine have had fiscal impacts within the region in the form of sales taxes. The indirect state and local sales taxes generated by these construction activities total at least \$684,000. The IMPLAN model estimates of output for construction impacts can be viewed in appendix A.

Table 2

Economic and Fiscal Impacts of Construction activities

Description	Impact
Total construction spending	\$ 50,000,000
Total economic activity	\$ 89,563,348
Total income	\$ 33,569,719
Total jobs (person-years)	843

⁴ Person-years of employment means the number of full-time equivalent positions in one year. If the construction projects being evaluated took 3 years, the employment impact could also be presented as an average of 281 FTE jobs (843 person-years divided by 3 years) will be supported during construction activity.

Recurring Economic Impacts

Procurement Impacts

Like any other business, Baylor-Grapevine is a large consumer of goods and services. While conducting its primary mission of providing health care, it is also purchasing utility services, consumables, durable goods, and more from area businesses. This additional spending creates much the same effect as the construction activities in that new jobs and tax revenue are generated, but on a recurring basis. Baylor-Grapevine procures over \$112 million in goods and services each year. This procurement activity generates \$173 million in total area economic activity and creates 1,885 jobs paying more than \$76 million in wages (Table 3). In addition, the procurement spending generates at least \$223,000 in direct sales tax revenue and at least \$912,000 in indirect and induced sales tax revenue. The IMPLAN output for procurement impacts can be viewed in appendix A.

Table 3
Economic Impacts of Procurement Activities

Description	Impact
Total procurement spending	\$ 112,779,700
Total economic activity	\$ 173,395,032
Total income	\$ 76,156,390
Total jobs (person-years)	1,885
Direct sales taxes	\$ 223,725
Indirect and induces sales taxes	\$ 912, 526

Employment Impacts

Employees for Baylor-Grapevine come from all over the Dallas/Fort Worth region, though the largest concentration comes from the communities surrounding the hospital (Appendix B). Baylor-Grapevine directly employs over 1,000 people, equating to an FTE of over 793. These full and part time positions pay over \$35 million in direct income earnings and generate \$43 million in total area economic impacts. Direct, indirect, and induced employment impacts by Baylor-Grapevine total 1,263 jobs and income exceeding \$54 million. What's more, employment at ancillary facilities, which equates to an FTE of about 87, contributes \$2.4 million in direct income earnings for physicians and \$1.6 million in direct income earnings for other staff. Combined, the staff and physician earnings generate \$5.8 million in total area economic impacts. Direct, indirect, and induced employment impacts of these ancillary facilities total 139 jobs and income exceeding \$6.2 million (Table 4). The IMPLAN output for employment impacts at Baylor-Grapevine can be viewed in appendix A.

Table 4

Economic Impacts of Employment

	Baylor-Grapevine	Ancillary Facilities
Description		
Total direct income	\$ 35,956,573	\$ 4,133,709
Total economic activity	\$ 43,338,839	\$ 5,864,887
Total income impacts	\$ 54,213,127	\$ 6,232,554
Total jobs (person-years)	1,263.17	139.42

Other Tangible Impacts

Baylor-Grapevine also contributes to the local economy through visitor spending. During FY2002, there were over 63,000 out-patients and over 10,000 in-patients that received care at Baylor-Grapevine. While the majority of these patients were from the surrounding counties that comprise the Dallas/Fort Worth Metroplex, approximately 4% of out-patients and 34% of inpatients were from other parts of Texas or other states. It is estimated that the visitors accompanying these patients will spend \$1.5 million for lodging, \$630,000 at eating and drinking establishments, \$394,000 on miscellaneous retail goods, and \$197,000 on transportation. In total, patient visitors will spend over \$2.7 million dollars in the local economy. This spending will generate \$4.7 million in economic activity in the area and support 70 direct, indirect, and induced jobs paying over \$2 million in annual earnings (Table 5). The detailed output for visitor spending impacts can be viewed in appendix A. What's more, Baylor-Grapevine contributes to the community through charitable donations, which totaled \$43, 650 in FY2003, and are planned to total \$63,900 in FY 2004.

Table 5

Economic Impacts of Visitor Spending

Description	Impact
Total estimated visitor spending	\$ 2,745,971
Total economic activity	\$ 4,721,075
Total Income	\$ 2,021,295
Total Jobs (person-years)	70.9

Total Recurring Economic Impacts from Baylor-Grapevine

Total recurring impacts of procurement spending at Baylor-Grapevine, employment at Baylor-Grapevine and its ancillary facilities, and visitor spending will generate over \$227 million in economic activity for the Dallas/Fort Worth Metroplex. This activity will support more than 3,300 direct, indirect, and induced jobs paying over \$138 million in annual earnings (Table 6).

Table 6

Total Recurring Economic Impacts

Description	Impact
Total economic activity	\$ 227,319,833
Total income	\$ 138,623,366
Total jobs (person-years)	3,358.49

Other Fiscal Impacts

Though many of the Baylor-Grapevine facilities are exempt from paying real and personal property taxes, some of their facilities are subject to property taxes. In total, Baylor-Grapevine pays over \$455,000 in property taxes each year to local jurisdictions. What's more, the ancillary and satellite facilities surrounding Baylor-Grapevine contribute property taxes to the region as well. In total, these ancillary and satellite facilities contribute an additional \$143,000 in property taxes to the area.

CHAPTER 5

CONCLUSION

From this analysis it is clear that Baylor-Grapevine, located in northeast Tarrant County, serves as an important economic engine for the entire Dallas/Fort Worth Metroplex. Through its recent construction activities, Baylor-Grapevine has generated over \$89 million in total area economic activity and 843 jobs. What's more, recurring economic impacts of Baylor-Grapevine, and its ancillary facilities in Southlake, Grapevine, Colleyville, and Flower Mound, will generate \$227 million in recurring economic activity and support over 3,300 permanent jobs in the region. Additionally, the hospital contributes to the community through charitable donations.

However, it should be noted that the positive impacts presented in this analysis do not cover all of the impacts of Baylor-Grapevine on the region. For example, as health care costs rise, there could be an adverse effect on consumers located in the region, potentially causing an adverse effect on spending for goods and services. What's more, the analysis of recurring impacts assumes that purchases by Baylor-Grapevine will remain constant. Essentially, additional research would be needed to calculate all of the net impacts Baylor-Grapevine has on the Dallas/Fort Worth Metroplex.

APPENDIX A
IMPLAN OUTPUT

DFW 1999.iap

IMPACT NAME: Baylor-Grapevine Construction MULTIPLIER: Type SAM

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
1	Dairy Farm Products	0	11	2,216	2,226	1.00
2	Poultry and Eggs	0	20	2,416	2,436	1.00
3	Ranch Fed Cattle	0	40	6,632	6,672	1.00
4	Range Fed Cattle	0	19	3,164	3,183	1.00
5	Cattle Feedlots	0	7	1,091	1,097	1.00
6	Sheep- Lambs and Goats	0	0	37	37	1.00
7	Hogs- Pigs and Swine	0	1	161	162	1.00
8	Other Meat Animal Products	0	0	2	2	1.00
9	Miscellaneous Livestock	0	48	3,431	3,478	1.00
10	Cotton	0	1	12	13	1.00
11	Food Grains	0	3	33	36	1.00
12	Feed Grains	0	1,442	249	1,691	1.00
13	Hay and Pasture	0	2,041	352	2,393	1.00
14	Grass Seeds	0	0	0	0	1.00
15	Tobacco	0	0	0	0	1.00
16	Fruits	0	0	461	461	1.00
17	Tree Nuts	0	0	467	467	1.00
18	Vegetables	0	3	484	487	1.00
19	Sugar Crops	0	0	0	0	1.00
20	Miscellaneous Crops	0	0	0	0	1.00
21	Oil Bearing Crops	0	1	159	160	1.00
22	Forest Products	0	71	12	83	1.00
23	Greenhouse and Nursery Products	0	8,048	14,972	23,020	1.00
24	Forestry Products	0	20	38	59	1.00
25	Commercial Fishing	0	2	36	38	1.00
26	Agricultural- Forestry- Fishery Service	0	31	386	418	1.00
27	Landscape and Horticultural Services	0	116,232	32,407	148,639	1.00
28	Iron Ores	0	0	0	0	1.00
29	Copper Ores	0	0	0	0	1.00
30	Lead and Zinc Ores	0	0	0	0	1.00
31	Gold Ores	0	92	24	115	1.00
32	Silver Ores	0	0	0	0	1.00
33	Ferroalloy Ores- Except Vanadium	0	0	0	0	1.00
34	Metal Mining Services	0	0	0	0	1.00
35	Uranium-radium-vanadium Ores	0	33	8	41	1.00
36	Metal Ores- Not Elsewhere Classified	0	0	0	0	1.00
37	Coal Mining	0	55	159	214	1.00
38	Natural Gas & Crude Petroleum	0	72,967	151,948	224,915	1.00
39	Natural Gas Liquids	0	17,008	35,417	52,425	1.00
40	Dimension Stone	0	11	23	34	1.00
41	Sand and Gravel	0	68	44	113	1.00
42	Clay- Ceramic- Refractory Minerals-	0	0	0	0	1.00
43	Potash- Soda- and Borate Minerals	0	0	0	0	1.00
44	Phosphate Rock	0	0	0	0	1.00
45	Chemical- Fertilizer Mineral Mining-	0	8	11	19	1.00
46	Nonmetallic Minerals (Except Fuels)	0	0	0	0	1.00
47	Misc. Nonmetallic Minerals- N.E.C.	0	0	0	0	1.00
48	New Residential Structures	0	0	0	0	1.00
49	New Industrial and Commercial Build	50,000,000	0	0	50,000,000	1.00
50	New Utility Structures	0	0	0	0	1.00
51	New Highways and Streets	0	0	0	0	1.00
52	New Farm Structures	0	0	0	0	1.00
53	New Mineral Extraction Facilities	0	0	0	0	1.00
54	New Government Facilities	0	0	0	0	1.00
55	Maintenance and Repair- Residential	0	22,932	177,149	200,081	1.00
56	Maintenance and Repair Other Facility	0	143,606	258,227	401,834	1.00
57	Maintenance and Repair Oil and Gas	0	1,564	3,258	4,822	1.00
58	Meat Packing Plants	0	228	38,493	38,720	1.00
59	Sausages and Other Prepared Meats	0	599	81,034	81,633	1.00
60	Poultry Processing	0	181	15,098	15,279	1.00
61	Creamery Butter	0	1	46	47	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
62	Cheese- Natural and Processed	0	9	573	582	1.00
63	Condensed and Evaporated Milk	0	0	0	0	1.00
64	Ice Cream and Frozen Desserts	0	264	12,228	12,492	1.00
65	Fluid Milk	0	231	54,097	54,329	1.00
66	Canned Specialties	0	2	445	447	1.00
67	Canned Fruits and Vegetables	0	3	281	284	1.00
68	Dehydrated Food Products	0	0	115	116	1.00
69	Pickles- Sauces- and Salad Dressings	0	26	2,027	2,052	1.00
70	Frozen Fruits- Juices and Vegetables	0	0	8	9	1.00
71	Frozen Specialties	0	16	1,635	1,651	1.00
72	Flour and Other Grain Mill Products	0	7	543	551	1.00
73	Cereal Preparations	0	0	0	0	1.00
74	Rice Milling	0	0	0	0	1.00
75	Blended and Prepared Flour	0	8	1,664	1,672	1.00
76	Wet Corn Milling	0	0	0	0	1.00
77	Dog- Cat- and Other Pet Food	0	0	185	185	1.00
78	Prepared Feeds- N.E.C	0	24	363	386	1.00
79	Bread- Cake- and Related Products	0	1,223	57,403	58,626	1.00
80	Cookies and Crackers	0	34	7,224	7,258	1.00
81	Sugar	0	25	2,112	2,138	1.00
82	Confectionery Products	0	19	2,455	2,474	1.00
83	Chocolate and Cocoa Products	0	0	0	0	1.00
84	Chewing Gum	0	0	0	0	1.00
85	Salted and Roasted Nuts & Seeds	0	1	195	196	1.00
86	Cottonseed Oil Mills	0	18	189	207	1.00
87	Soybean Oil Mills	0	0	0	0	1.00
88	Vegetable Oil Mills- N.E.C	0	22	119	141	1.00
89	Animal and Marine Fats and Oils	0	352	494	846	1.00
90	Shortening and Cooking Oils	0	277	14,991	15,268	1.00
91	Malt Beverages	0	73	4,834	4,906	1.00
92	Malt	0	0	0	0	1.00
93	Wines- Brandy- and Brandy Spirits	0	0	0	0	1.00
94	Distilled Liquor- Except Brandy	0	0	0	0	1.00
95	Bottled and Canned Soft Drinks & Water	0	96	7,357	7,453	1.00
96	Flavoring Extracts and Syrups- N.E.C	0	41	4,213	4,254	1.00
97	Canned and Cured Sea Foods	0	0	5	5	1.00
98	Prepared Fresh Or Frozen Fish Or Se	0	0	0	0	1.00
99	Roasted Coffee	0	34	1,479	1,513	1.00
100	Potato Chips & Similar Snacks	0	163	31,326	31,489	1.00
101	Manufactured Ice	0	0	1,275	1,275	1.00
102	Macaroni and Spaghetti	0	1	892	894	1.00
103	Food Preparations- N.E.C	0	97	49,712	49,809	1.00
104	Cigarettes	0	0	0	0	1.00
105	Cigars	0	0	0	0	1.00
106	Chewing and Smoking Tobacco	0	0	0	0	1.00
107	Tobacco Stemming and Redrying	0	0	0	0	1.00
108	Broadwoven Fabric Mills and Finishing	0	89	402	490	1.00
109	Narrow Fabric Mills	0	8	42	50	1.00
110	Women's Hosiery- Except Socks	0	0	0	0	1.00
111	Hosiery- N.E.C	0	0	50	50	1.00
112	Knit Outerwear Mills	0	0	12	12	1.00
113	Knit Underwear Mills	0	0	0	0	1.00
114	Knit Fabric Mills	0	16	442	458	1.00
115	Knitting Mills- N.E.C.	0	0	0	0	1.00
116	Yarn Mills and Finishing Of Textiles-	0	4	15	18	1.00
117	Carpets and Rugs	0	77	77	154	1.00
118	Thread Mills	0	9	39	48	1.00
119	Coated Fabrics- Not Rubberized	0	125	28	153	1.00
120	Tire Cord and Fabric	0	0	0	0	1.00
121	Non woven Fabrics	0	0	0	0	1.00
122	Cordage and Twine	0	141	72	213	1.00
123	Textile Goods- N.E.C	0	13	27	40	1.00
124	Apparel Made From Purchased Material	0	533	72,517	73,050	1.00
125	Curtains and Draperies	0	120	6,157	6,277	1.00
126	House furnishings- N.E.C	0	1,531	27,507	29,038	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
127	Textile Bags	0	292	303	594	1.00
128	Canvas Products	0	10,432	1,400	11,832	1.00
129	Pleating and Stitching	0	6	2,513	2,519	1.00
130	Automotive and Apparel Trimmings	0	175	11,653	11,827	1.00
131	Schiffi Machine Embroideries	0	1	27	27	1.00
132	Fabricated Textile Products- N.E.C.	0	13,712	5,943	19,655	1.00
133	Logging Camps and Logging Contractor	0	8,961	256	9,217	1.00
134	Sawmills and Planing Mills- General	0	48,892	1,057	49,948	1.00
135	Hardwood Dimension and Flooring Mi	0	158,626	2,001	160,627	1.00
136	Special Product Sawmills- N.E.C	0	0	0	0	1.00
137	Millwork	0	294,476	4,365	298,841	1.00
138	Wood Kitchen Cabinets	0	112,746	3,971	116,717	1.00
139	Veneer and Plywood	0	537	8	544	1.00
140	Structural Wood Members- N.E.C	0	78,245	1,334	79,579	1.00
141	Wood Containers	0	1,845	278	2,123	1.00
142	Wood Pallets and Skids	0	8,225	1,747	9,972	1.00
143	Mobile Homes	0	26	5	32	1.00
144	Prefabricated Wood Buildings	0	120	4	124	1.00
145	Wood Preserving	0	33,148	350	33,498	1.00
146	Reconstituted Wood Products	0	23,682	309	23,991	1.00
147	Wood Products- N.E.C	0	7,611	8,749	16,360	1.00
148	Wood Household Furniture	0	458	5,120	5,578	1.00
149	Upholstered Household Furniture	0	188	14,268	14,456	1.00
150	Metal Household Furniture	0	2,402	3,769	6,171	1.00
151	Mattresses and Bedsprings	0	278	13,559	13,836	1.00
152	Wood TV and Radio Cabinets	0	20	156	175	1.00
153	Household Furniture- N.E.C	0	282	597	879	1.00
154	Wood Office Furniture	0	905	629	1,534	1.00
155	Metal Office Furniture	0	139	105	243	1.00
156	Public Building Furniture	0	52,685	2,965	55,651	1.00
157	Wood Partitions and Fixtures	0	45,200	74	45,274	1.00
158	Metal Partitions and Fixtures	0	95,476	141	95,617	1.00
159	Blinds- Shades- and Drapery Hardware	0	262	7,935	8,197	1.00
160	Furniture and Fixtures- N.E.C	0	1,807	184	1,992	1.00
161	Pulp Mills	0	16	7	23	1.00
162	Paper Mills- Except Building Paper	0	51	7	59	1.00
163	Paperboard Mills	0	766	109	875	1.00
164	Paperboard Containers and Boxes	0	65,761	35,162	100,923	1.00
165	Paper Coated & Laminated Packaging	0	367	190	557	1.00
166	Paper Coated & Laminated N.E.C.	0	1,336	691	2,027	1.00
167	Bags- Plastic	0	242	249	491	1.00
168	Bags- Paper	0	4	4	7	1.00
169	Die-cut Paper and Board	0	104	49	153	1.00
170	Sanitary Paper Products	0	64	61	125	1.00
171	Envelopes	0	54	26	81	1.00
172	Stationery Products	0	192	134	326	1.00
173	Converted Paper Products- N.E.C	0	217	219	436	1.00
174	Newspapers	0	24,892	29,607	54,498	1.00
175	Periodicals	0	9,776	15,541	25,317	1.00
176	Book Publishing	0	550	18,794	19,344	1.00
177	Book Printing	0	322	1,006	1,327	1.00
178	Miscellaneous Publishing	0	8,221	10,016	18,236	1.00
179	Commercial Printing	0	57,953	48,625	106,578	1.00
180	Manifold Business Forms	0	6,444	3,628	10,072	1.00
181	Greeting Card Publishing	0	65	2,977	3,041	1.00
182	Blankbooks and Looseleaf Binder	0	2,980	2,461	5,441	1.00
183	Bookbinding & Related	0	110	597	707	1.00
184	Typesetting	0	824	299	1,123	1.00
185	Plate Making	0	834	785	1,619	1.00
186	Alkalies & Chlorine	0	0	0	0	1.00
187	Industrial Gases	0	1,686	2,230	3,917	1.00
188	Inorganic Pigments	0	116	154	270	1.00
189	Inorganic Chemicals Nec.	0	1,917	2,536	4,453	1.00
190	Cyclic Crudes- Interm. & Indus. Orga	0	12,989	17,181	30,170	1.00
191	Plastics Materials and Resins	0	3,365	1,380	4,746	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
192	Synthetic Rubber	0	40	13	53	1.00
193	Cellulosic Man-made Fibers	0	0	0	0	1.00
194	Organic Fibers- Non cellulosic	0	0	0	0	1.00
195	Drugs	0	598	134,725	135,323	1.00
196	Soap and Other Detergents	0	759	11,659	12,417	1.00
197	Polishes and Sanitation Goods	0	5,957	25,738	31,695	1.00
198	Surface Active Agents	0	42	47	90	1.00
199	Toilet Preparations	0	470	48,234	48,703	1.00
200	Paints and Allied Products	0	5,155	252	5,407	1.00
201	Gum and Wood Chemicals	0	0	0	0	1.00
202	Nitrogenous and Phosphatic Fertilizer	0	83	93	176	1.00
203	Fertilizers- Mixing Only	0	167	226	392	1.00
204	Agricultural Chemicals- N.E.C	0	279	627	906	1.00
205	Adhesives and Sealants	0	44,944	4,957	49,901	1.00
206	Explosives	0	125	63	188	1.00
207	Printing Ink	0	2,312	2,066	4,377	1.00
208	Carbon Black	0	2	2	4	1.00
209	Chemical Preparations- N.E.C	0	19,356	5,362	24,719	1.00
210	Petroleum Refining	0	27,662	50,011	77,673	1.00
211	Paving Mixtures and Blocks	0	839	2,256	3,095	1.00
212	Asphalt Felts and Coatings	0	96,162	3,813	99,975	1.00
213	Lubricating Oils and Greases	0	30,313	13,598	43,911	1.00
214	Petroleum and Coal Products- N.E.C.	0	0	0	0	1.00
215	Tires and Inner Tubes	0	13	8	21	1.00
216	Rubber and Plastics Footwear	0	0	0	0	1.00
217	Rubber and Plastics Hose and Belting	0	15	1	15	1.00
218	Gaskets- Packing and Sealing Device	0	99	28	127	1.00
219	Fabricated Rubber Products- N.E.C.	0	875	203	1,078	1.00
220	Miscellaneous Plastics Products	0	7,642	1,421	9,063	1.00
221	Leather Tanning and Finishing	0	112	1,522	1,634	1.00
222	Footwear Cut Stock	0	0	26	27	1.00
223	House Slippers	0	0	0	0	1.00
224	Shoes- Except Rubber	0	6	4,323	4,329	1.00
225	Leather Gloves and Mittens	0	0	0	0	1.00
226	Luggage	0	103	941	1,044	1.00
227	Women's Handbags and Purses	0	6	146	152	1.00
228	Personal Leather Goods	0	0	33	33	1.00
229	Leather Goods- N.E.C	0	191	1,632	1,823	1.00
230	Glass and Glass Products- Except Containers	0	123,582	5,604	129,186	1.00
231	Glass Containers	0	322	1,324	1,645	1.00
232	Cement- Hydraulic	0	327	8	336	1.00
233	Brick and Structural Clay Tile	0	299	5	304	1.00
234	Ceramic Wall and Floor Tile	0	2,954	40	2,994	1.00
235	Clay Refractories	0	163	0	163	1.00
236	Structural Clay Products- N.E.C	0	1	0	1	1.00
237	Vitreous Plumbing Fixtures	0	2	0	2	1.00
238	Vitreous China Food Utensils	0	0	0	0	1.00
239	Fine Earthenware Food Utensils	0	0	0	0	1.00
240	Porcelain Electrical Supplies	0	273	13	286	1.00
241	Pottery Products- N.E.C	0	12	6	18	1.00
242	Concrete Block and Brick	0	147	5	152	1.00
243	Concrete Products- N.E.C	0	517	19	536	1.00
244	Ready-mixed Concrete	0	1,599	63	1,662	1.00
245	Lime	0	41	23	64	1.00
246	Gypsum Products	0	1,252	20	1,272	1.00
247	Cut Stone and Stone Products	0	603	8	612	1.00
248	Abrasive Products	0	152	54	206	1.00
249	Asbestos Products	0	0	0	0	1.00
250	Minerals- Ground Or Treated	0	1	1	2	1.00
251	Mineral Wool	0	1,549	166	1,715	1.00
252	Nonclay Refractories	0	42	3	45	1.00
253	Nonmetallic Mineral Products- N.E.C	0	350	51	401	1.00
254	Blast Furnaces and Steel Mills	0	10,436	512	10,948	1.00
255	Electrometallurgical Products	0	10	2	12	1.00
256	Steel Wire and Related Products	0	2,995	196	3,191	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
257	Cold Finishing Of Steel Shapes	0	78	3	82	1.00
258	Steel Pipe and Tubes	0	866	40	906	1.00
259	Iron and Steel Foundries	0	464	15	478	1.00
260	Primary Copper	0	0	0	0	1.00
261	Primary Aluminum	0	0	0	0	1.00
262	Primary Nonferrous Metals- N.E.C.	0	5	2	8	1.00
263	Secondary Nonferrous Metals	0	375	41	416	1.00
264	Copper Rolling and Drawing	0	1,165	29	1,194	1.00
265	Aluminum Rolling and Drawing	0	1,770	238	2,008	1.00
266	Nonferrous Rolling and Drawing- N.E	0	280	27	306	1.00
267	Nonferrous Wire Drawing and Insulation	0	22,061	459	22,520	1.00
268	Aluminum Foundries	0	384	43	427	1.00
269	Brass- Bronze- and Copper Foundries	0	13	1	14	1.00
270	Nonferrous Castings- N.E.C.	0	243	28	271	1.00
271	Metal Heat Treating	0	367	60	427	1.00
272	Primary Metal Products- N.E.C	0	65	4	69	1.00
273	Metal Cans	0	268	401	670	1.00
274	Metal Barrels- Drums and Pails	0	400	209	609	1.00
275	Cutlery	0	0	0	0	1.00
276	Hand and Edge Tools- N.E.C.	0	1,344	2,434	3,778	1.00
277	Hand Saws and Saw Blades	0	26	82	108	1.00
278	Hardware- N.E.C.	0	15,458	833	16,291	1.00
279	Metal Sanitary Ware	0	2,118	28	2,146	1.00
280	Plumbing Fixture Fittings and Trim	0	6,195	175	6,370	1.00
281	Heating Equipment- Except Electric	0	3,156	61	3,217	1.00
282	Fabricated Structural Metal	0	38,830	129	38,959	1.00
283	Metal Doors- Sash- and Trim	0	31,116	582	31,699	1.00
284	Fabricated Plate Work (Boiler Shops)	0	3,368	64	3,432	1.00
285	Sheet Metal Work	0	37,029	520	37,549	1.00
286	Architectural Metal Work	0	10,594	74	10,668	1.00
287	Prefabricated Metal Buildings	0	39,300	66	39,366	1.00
288	Miscellaneous Metal Work	0	38,787	201	38,988	1.00
289	Screw Machine Products and Bolts- Et	0	6,459	645	7,104	1.00
290	Iron and Steel Forgings	0	803	68	871	1.00
291	Nonferrous Forgings	0	33	2	35	1.00
292	Automotive Stampings	0	333	1,003	1,336	1.00
293	Crowns and Closures	0	47	274	321	1.00
294	Metal Stampings- N.E.C.	0	8,222	1,825	10,047	1.00
295	Plating and Polishing	0	1,135	205	1,340	1.00
296	Metal Coating and Allied Services	0	3,060	326	3,386	1.00
297	Small Arms Ammunition	0	0	0	0	1.00
298	Ammunition- Except For Small Arms-	0	0	0	0	1.00
299	Small Arms	0	12	6	18	1.00
300	Other Ordnance and Accessories	0	0	0	0	1.00
301	Industrial and Fluid Valves	0	154,262	634	154,896	1.00
302	Steel Springs- Except Wire	0	87	62	149	1.00
303	Pipe- Valves- and Pipe Fittings	0	23,022	95	23,117	1.00
304	Miscellaneous Fabricated Wire Products	0	19,673	1,550	21,223	1.00
305	Metal Foil and Leaf	0	0	0	0	1.00
306	Fabricated Metal Products- N.E.C.	0	26,899	739	27,638	1.00
307	Steam Engines and Turbines	0	165	388	553	1.00
308	Internal Combustion Engines- N.E.C.	0	580	558	1,138	1.00
309	Farm Machinery and Equipment	0	81	142	223	1.00
310	Lawn and Garden Equipment	0	0	0	0	1.00
311	Construction Machinery and Equipment	0	474	127	601	1.00
312	Mining Machinery- Except Oil Field	0	1,772	44	1,816	1.00
313	Oil Field Machinery	0	19,031	697	19,728	1.00
314	Elevators and Moving Stairways	0	165,900	13	165,913	1.00
315	Conveyors and Conveying Equipment	0	2,782	81	2,864	1.00
316	Hoists- Cranes- and Monorails	0	74,479	36	74,515	1.00
317	Industrial Trucks and Tractors	0	3,140	178	3,318	1.00
318	Machine Tools- Metal Cutting Types	0	36	39	74	1.00
319	Machine Tools- Metal Forming Types	0	40	9	49	1.00
320	Industrial Patterns	0	0	0	1	1.00
321	Special Dies and Tools and Accessories	0	1,693	432	2,125	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
322	Power Driven Hand Tools	0	2,184	1,761	3,945	1.00
323	Rolling Mill Machinery	0	0	0	0	1.00
324	Welding Apparatus	0	5,799	213	6,012	1.00
325	Metalworking Machinery- N.E.C.	0	302	37	339	1.00
326	Textile Machinery	0	200	22	223	1.00
327	Woodworking Machinery	0	28	199	227	1.00
328	Paper Industries Machinery	0	127	66	194	1.00
329	Printing Trades Machinery	0	150	109	259	1.00
330	Food Products Machinery	0	276	397	673	1.00
331	Special Industry Machinery N.E.C.	0	621	334	956	1.00
332	Pumps and Compressors	0	972	144	1,116	1.00
333	Ball and Roller Bearings	0	0	0	0	1.00
334	Blowers and Fans	0	1,134	107	1,241	1.00
335	Packaging Machinery	0	250	379	629	1.00
336	Power Transmission Equipment	0	276	45	321	1.00
337	Industrial Furnaces and Ovens	0	108	8	116	1.00
338	General Industrial Machinery- N.E.C	0	295	33	329	1.00
339	Electronic Computers	0	2,251	4,036	6,287	1.00
340	Computer Storage Devices	0	36	37	73	1.00
341	Computer Terminals	0	1	1	2	1.00
342	Computer Peripheral Equipment-	0	4,172	4,221	8,392	1.00
343	Calculating and Accounting Machines	0	191	214	404	1.00
344	Typewriters and Office Machines N.E	0	374	1,152	1,526	1.00
345	Automatic Merchandising Machine	0	55	174	229	1.00
346	Commercial Laundry Equipment	0	35	138	173	1.00
347	Refrigeration and Heating Equipment	0	488,380	15,573	503,953	1.00
348	Measuring and Dispensing Pumps	0	0	0	0	1.00
349	Service Industry Machines- N.E.C.	0	5,788	1,114	6,902	1.00
350	Carburetors- Pistons- Rings- Valves	0	477	85	562	1.00
351	Fluid Power Cylinders & Actuators	0	2,221	21	2,242	1.00
352	Fluid Power Pumps & Motors	0	71	1	72	1.00
353	Scales and Balances	0	47	246	293	1.00
354	Industrial Machines N.E.C.	0	586	72	658	1.00
355	Transformers	0	116	25	141	1.00
356	Switchgear and Switchboard Apparatus	0	29,499	547	30,046	1.00
357	Motors and Generators	0	12,303	667	12,970	1.00
358	Carbon and Graphite Products	0	0	0	0	1.00
359	Relays & Industrial Controls	0	4,071	628	4,699	1.00
360	Electrical Industrial Apparatus- N.E.C	0	131	22	153	1.00
361	Household Cooking Equipment	0	10	5	16	1.00
362	Household Refrigerators and Freezers	0	0	0	0	1.00
363	Household Laundry Equipment	0	0	1	1	1.00
364	Electric House wares and Fans	0	1,251	308	1,560	1.00
365	Household Vacuum Cleaners	0	16	18	34	1.00
366	Household Appliances- N.E.C.	0	44	5	50	1.00
367	Electric Lamps	0	6	3	9	1.00
368	Wiring Devices	0	1,286	144	1,429	1.00
369	Lighting Fixtures and Equipment	0	1,890	209	2,098	1.00
370	Radio and TV Receiving Sets	0	868	13,695	14,564	1.00
371	Phonograph Records and Tape	0	662	3,248	3,911	1.00
372	Telephone and Telegraph Apparatus	0	29,693	13,573	43,266	1.00
373	Radio and TV Communication Equipment	0	368,429	7,369	375,798	1.00
374	Communications Equipment N.E.C.	0	27,368	547	27,915	1.00
375	Electron Tubes	0	57	95	151	1.00
376	Printed Circuit Boards	0	9,717	2,523	12,240	1.00
377	Semiconductors and Related Devices	0	73,915	26,006	99,921	1.00
378	Electronic Components- N.E.C.	0	61,970	16,089	78,059	1.00
379	Storage Batteries	0	14,100	8,309	22,409	1.00
380	Primary Batteries- Dry and Wet	0	0	0	0	1.00
381	Engine Electrical Equipment	0	33,638	5,299	38,937	1.00
382	Magnetic & Optical Recording Media	0	344	191	535	1.00
383	Electrical Equipment- N.E.C.	0	6,688	2,209	8,897	1.00
384	Motor Vehicles	0	2,391	139,467	141,858	1.00
385	Truck and Bus Bodies	0	664	1,835	2,500	1.00
386	Motor Vehicle Parts and Accessories	0	27,571	21,823	49,394	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
387	Truck Trailers	0	74	143	217	1.00
388	Motor Homes	0	63	419	482	1.00
389	Aircraft	0	4,414	9,252	13,666	1.00
390	Aircraft and Missile Engines and Part	0	512	645	1,158	1.00
391	Aircraft and Missile Equipment-	0	3,971	432	4,402	1.00
392	Ship Building and Repairing	0	0	0	0	1.00
393	Boat Building and Repairing	0	24	68	92	1.00
394	Railroad Equipment	0	3,619	839	4,458	1.00
395	Motorcycles- Bicycles- and Parts	0	15	10	25	1.00
396	Complete Guided Missiles	0	4	1	4	1.00
397	Travel Trailers and Camper	0	4	87	91	1.00
398	Tanks and Tank Components	0	0	0	0	1.00
399	Transportation Equipment- N.E.C	0	761	157	919	1.00
400	Search & Navigation Equipment	0	8,782	1,151	9,933	1.00
401	Laboratory Apparatus & Furniture	0	70	23	93	1.00
402	Automatic Temperature Controls	0	5,976	40	6,016	1.00
403	Mechanical Measuring Devices	0	10,183	795	10,978	1.00
404	Instruments To Measure Electricity	0	666	51	717	1.00
405	Analytical Instruments	0	920	980	1,900	1.00
406	Optical Instruments & Lenses	0	354	377	731	1.00
407	Surgical and Medical Instrument	0	3,680	7,371	11,051	1.00
408	Surgical Appliances and Supplies	0	76,618	22,771	99,390	1.00
409	Dental Equipment and Supplies	0	30	426	456	1.00
410	X-Ray Apparatus	0	2	19	21	1.00
411	Electromedical Apparatus	0	192	527	719	1.00
412	Ophthalmic Goods	0	1,705	10,178	11,884	1.00
413	Photographic Equipment and Supplies	0	292	3,738	4,030	1.00
414	Watches- Clocks- and Parts	0	1	48	50	1.00
415	Jewelry- Precious Metal	0	72	1,307	1,380	1.00
416	Silverware and Plated Ware	0	7	44	50	1.00
417	Jewelers Materials and Lapidary Work	0	0	0	0	1.00
418	Musical Instruments	0	58	47	104	1.00
419	Dolls	0	0	8	8	1.00
420	Games- Toys- and Children's Vehicles	0	38	121	158	1.00
421	Sporting and Athletic Goods- N.E.C.	0	192	1,774	1,966	1.00
422	Pens and Mechanical Pencils	0	3	4	7	1.00
423	Lead Pencils and Art Goods	0	1	2	2	1.00
424	Marking Devices	0	122	43	165	1.00
425	Carbon Paper and Inked Ribbons	0	46	51	98	1.00
426	Costume Jewelry	0	1	74	74	1.00
427	Fasteners- Buttons- Needles- Pins	0	0	12	12	1.00
428	Brooms and Brushes	0	346	125	472	1.00
429	Signs and Advertising Displays	0	7,342	4,814	12,155	1.00
430	Burial Caskets and Vaults	0	1	42	43	1.00
431	Hard Surface Floor Coverings	0	0	0	0	1.00
432	Manufacturing Industries- N.E.C.	0	927	1,592	2,519	1.00
433	Railroads and Related Services	0	23,778	13,248	37,026	1.00
434	Local- Interurban Passenger Transit	0	9,942	43,104	53,046	1.00
435	Motor Freight Transport and Warehouse	0	949,528	252,031	1,201,559	1.00
436	Water Transportation	0	2,511	4,234	6,745	1.00
437	Air Transportation	0	67,470	111,348	178,818	1.00
438	Pipe Lines- Except Natural Gas	0	2,928	5,968	8,896	1.00
439	Arrangement Of Passenger Transportation	0	7,188	20,135	27,323	1.00
440	Transportation Services	0	34,608	11,899	46,507	1.00
441	Communications- Except Radio and	0	466,964	397,045	864,010	1.00
442	Radio and TV Broadcasting	0	46,558	42,945	89,503	1.00
443	Electric Services	0	106,333	380,080	486,413	1.00
444	Gas Production and Distribution	0	17,186	109,731	126,917	1.00
445	Water Supply and Sewerage Systems	0	1,575	7,517	9,092	1.00
446	Sanitary Services and Steam Supply	0	76,618	35,647	112,264	1.00
447	Wholesale Trade	0	2,842,811	1,048,400	3,891,211	1.00
448	Building Materials & Gardening	0	198,610	154,599	353,208	1.00
449	General Merchandise Stores	0	105,351	330,829	436,179	1.00
450	Food Stores	0	111,660	348,522	460,182	1.00
451	Automotive Dealers & Service Station	0	771,633	507,347	1,278,981	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
452	Apparel & Accessory Stores	0	85,960	173,680	259,640	1.00
453	Furniture & Home Furnishings Stores	0	118,755	179,197	297,952	1.00
454	Eating & Drinking	0	60,724	802,076	862,800	1.00
455	Miscellaneous Retail	0	437,872	564,997	1,002,869	1.00
456	Banking	0	635,660	736,644	1,372,304	1.00
457	Credit Agencies	0	219,650	193,712	413,363	1.00
458	Security and Commodity Brokers	0	138,047	192,759	330,806	1.00
459	Insurance Carriers	0	169,098	556,296	725,394	1.00
460	Insurance Agents and Brokers	0	34,808	114,510	149,317	1.00
461	Owner-occupied Dwellings	0	0	1,691,720	1,691,720	1.00
462	Real Estate	0	495,191	852,481	1,347,672	1.00
463	Hotels and Lodging Places	0	132,735	222,231	354,967	1.00
464	Laundry- Cleaning and Shoe Repair	0	16,487	67,223	83,710	1.00
465	Portrait and Photographic Studios	0	1,138	17,370	18,508	1.00
466	Beauty and Barber Shops	0	0	74,902	74,902	1.00
467	Funeral Service and Crematories	0	0	23,769	23,769	1.00
468	Miscellaneous Personal Services	0	5,792	88,392	94,184	1.00
469	Advertising	0	67,881	54,737	122,617	1.00
470	Other Business Services	0	690,977	190,844	881,822	1.00
471	Photofinishing- Commercial Photography	0	34,320	50,467	84,787	1.00
472	Services To Buildings	0	48,138	55,845	103,984	1.00
473	Equipment Rental and Leasing	0	272,946	35,921	308,867	1.00
474	Personnel Supply Services	0	478,006	104,090	582,096	1.00
475	Computer and Data Processing Service	0	526,260	252,080	778,340	1.00
476	Detective and Protective Services	0	78,833	29,593	108,426	1.00
477	Automobile Rental and Leasing	0	109,737	44,251	153,988	1.00
478	Automobile Parking and Car Wash	0	6,402	36,130	42,532	1.00
479	Automobile Repair and Services	0	90,146	205,382	295,527	1.00
480	Electrical Repair Service	0	11,854	28,983	40,837	1.00
481	Watch- Clock- Jewelry and Furniture	0	42	10,761	10,803	1.00
482	Miscellaneous Repair Shops	0	69,296	28,553	97,849	1.00
483	Motion Pictures	0	32,676	103,619	136,294	1.00
484	Theatrical Producers- Bands Etc.	0	9,961	41,791	51,752	1.00
485	Bowling Alleys and Pool Halls	0	7	9,059	9,065	1.00
486	Commercial Sports Except Racing	0	10,180	35,025	45,205	1.00
487	Racing and Track Operation	0	15	21,128	21,143	1.00
488	Amusement and Recreation Services-	0	1	139,772	139,774	1.00
489	Membership Sports and Recreation Cl	0	6,115	49,073	55,188	1.00
490	Doctors and Dentists	0	0	794,450	794,450	1.00
491	Nursing and Protective Care	0	0	80,217	80,217	1.00
492	Hospitals	0	873	576,686	577,558	1.00
493	Other Medical and Health Services	0	112	242,719	242,831	1.00
494	Legal Services	0	263,680	314,427	578,106	1.00
495	Elementary and Secondary Schools	0	0	56,473	56,473	1.00
496	Colleges- Universities- Schools	0	2,368	66,939	69,306	1.00
497	Other Educational Services	0	1,468	68,305	69,773	1.00
498	Job Trainings & Related Services	0	1,643	14,032	15,674	1.00
499	Child Day Care Services	0	0	108,130	108,130	1.00
500	Social Services- N.E.C.	0	0	77,663	77,663	1.00
501	Residential Care	0	0	29,843	29,843	1.00
502	Other Nonprofit Organizations	0	1,071	26,018	27,089	1.00
503	Business Associations	0	13,976	33,325	47,301	1.00
504	Labor and Civic Organizations	0	127	53,081	53,208	1.00
505	Religious Organizations	0	0	69,997	69,997	1.00
506	Engineering- Architectural Services	0	4,065,476	35,107	4,100,583	1.00
507	Accounting- Auditing and Bookkeeping	0	542,082	121,605	663,687	1.00
508	Management and Consulting Services	0	1,027,928	134,832	1,162,761	1.00
509	Research- Development & Testing Ser	0	81,578	24,530	106,108	1.00
510	Local Government Passenger Transit	0	2,206	9,917	12,123	1.00
511	State and Local Electric Utilities	0	11,121	40,156	51,277	1.00
512	Other State and Local Govt Enterprise	0	35,237	158,324	193,561	1.00
513	U.S. Postal Service	0	126,676	84,726	211,401	1.00
514	Federal Electric Utilities	0	0	0	0	1.00
515	Other Federal Government Enterprise	0	25,042	48,007	73,049	1.00
516	Noncomparable Imports	0	0	0	0	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
517	Scrap	0	0	0	0	1.00
518	Used and Secondhand Goods	0	0	0	0	1.00
519	Federal Government - Military	0	0	0	0	1.00
520	Federal Government - Non-Military	0	0	0	0	1.00
521	Commodity Credit Corporation	0	0	0	0	1.00
522	State & Local Government - Education	0	0	433,923	433,923	1.00
523	State & Local Government - Non-Educ	0	0	455,770	455,770	1.00
524	Rest Of The World Industry	0	0	0	0	1.00
525	Domestic Services	0	0	47,069	47,069	1.00
526	Dummy	0	0	0	0	1.00
527	Dummy	0	0	0	0	1.00
528	Inventory Valuation Adjustment	0	0	0	0	1.00
25001	Foreign Trade	0	0	0	0	1.00
28001	Domestic Trade	0	0	0	0	1.00
	Total	50,000,000	21,259,327	18,304,022	89,563,348	

Note: *1999 Dollars - if results are deflated and aggregated, then deflators displayed are set to 1.0 (results have been deflated)

DFW 1999.iap

IMPACT NAME: Baylor-Grapevine Procurement MULTIPLIER: Type SAM

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
1	Dairy Farm Products	0	633	4,912	5,545	1.00
2	Poultry and Eggs	0	2,004	5,423	7,428	1.00
3	Ranch Fed Cattle	0	2,513	14,916	17,429	1.00
4	Range Fed Cattle	0	1,198	7,116	8,314	1.00
5	Cattle Feedlots	0	414	2,453	2,868	1.00
6	Sheep- Lambs and Goats	0	14	83	98	1.00
7	Hogs- Pigs and Swine	0	61	362	423	1.00
8	Other Meat Animal Products	0	1	4	5	1.00
9	Miscellaneous Livestock	0	383	7,731	8,114	1.00
10	Cotton	0	9	27	37	1.00
11	Food Grains	0	39	75	114	1.00
12	Feed Grains	0	65	552	617	1.00
13	Hay and Pasture	0	92	781	874	1.00
14	Grass Seeds	0	0	0	0	1.00
15	Tobacco	0	0	0	0	1.00
16	Fruits	0	22	1,045	1,067	1.00
17	Tree Nuts	0	13	1,060	1,073	1.00
18	Vegetables	0	177	1,092	1,269	1.00
19	Sugar Crops	0	0	0	0	1.00
20	Miscellaneous Crops	0	0	0	0	1.00
21	Oil Bearing Crops	0	26	360	386	1.00
22	Forest Products	0	9	27	36	1.00
23	Greenhouse and Nursery Products	0	10,987	33,108	44,095	1.00
24	Forestry Products	0	3	87	89	1.00
25	Commercial Fishing	0	55	80	135	1.00
26	Agricultural- Forestry- Fishery Service	0	56	869	925	1.00
27	Landscape and Horticultural Services	0	141,236	69,294	210,530	1.00
28	Iron Ores	0	0	0	0	1.00
29	Copper Ores	0	0	0	0	1.00
30	Lead and Zinc Ores	0	0	0	0	1.00
31	Gold Ores	0	383	50	433	1.00
32	Silver Ores	0	0	0	0	1.00
33	Ferroalloy Ores- Except Vanadium	0	0	0	0	1.00
34	Metal Mining Services	0	0	0	0	1.00
35	Uranium-radium-vanadium Ores	0	137	18	155	1.00
36	Metal Ores- Not Elsewhere Classified	0	0	0	0	1.00
37	Coal Mining	0	182	348	530	1.00
38	Natural Gas & Crude Petroleum	0	115,272	332,443	447,716	1.00
39	Natural Gas Liquids	0	26,868	77,488	104,356	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
40	Dimension Stone	0	39	48	87	1.00
41	Sand and Gravel	0	65	96	161	1.00
42	Clay- Ceramic- Refractory Minerals-	0	0	0	0	1.00
43	Potash- Soda- and Borate Minerals	0	0	0	0	1.00
44	Phosphate Rock	0	0	0	0	1.00
45	Chemical- Fertilizer Mineral Mining-	0	226	23	249	1.00
46	Nonmetallic Minerals (Except Fuels)	0	0	0	0	1.00
47	Misc. Nonmetallic Minerals- N.E.C.	0	0	0	0	1.00
48	New Residential Structures	0	0	0	0	1.00
49	New Industrial and Commercial Build	0	0	0	0	1.00
50	New Utility Structures	0	0	0	0	1.00
51	New Highways and Streets	0	0	0	0	1.00
52	New Farm Structures	0	0	0	0	1.00
53	New Mineral Extraction Facilities	0	0	0	0	1.00
54	New Government Facilities	0	0	0	0	1.00
55	Maintenance and Repair- Residential	0	130,988	399,007	529,995	1.00
56	Maintenance and Repair Other Facility	0	643,154	513,063	1,156,217	1.00
57	Maintenance and Repair Oil and Gas	0	2,471	7,127	9,599	1.00
58	Meat Packing Plants	0	14,435	86,551	100,986	1.00
59	Sausages and Other Prepared Meats	0	35,795	182,711	218,506	1.00
60	Poultry Processing	0	6,617	34,195	40,812	1.00
61	Creamery Butter	0	107	101	209	1.00
62	Cheese- Natural and Processed	0	226	1,290	1,516	1.00
63	Condensed and Evaporated Milk	0	0	0	0	1.00
64	Ice Cream and Frozen Desserts	0	19,697	27,117	46,815	1.00
65	Fluid Milk	0	13,390	119,777	133,167	1.00
66	Canned Specialties	0	231	1,001	1,232	1.00
67	Canned Fruits and Vegetables	0	219	629	848	1.00
68	Dehydrated Food Products	0	45	259	304	1.00
69	Pickles- Sauces- and Salad Dressings	0	842	4,568	5,409	1.00
70	Frozen Fruits- Juices and Vegetables	0	7	18	26	1.00
71	Frozen Specialties	0	829	3,694	4,522	1.00
72	Flour and Other Grain Mill Products	0	282	1,224	1,506	1.00
73	Cereal Preparations	0	0	0	0	1.00
74	Rice Milling	0	0	0	0	1.00
75	Blended and Prepared Flour	0	380	3,757	4,137	1.00
76	Wet Corn Milling	0	0	0	0	1.00
77	Dog- Cat- and Other Pet Food	0	4	419	423	1.00
78	Prepared Feeds- N.E.C	0	440	816	1,256	1.00
79	Bread- Cake- and Related Products	0	48,000	128,935	176,935	1.00
80	Cookies and Crackers	0	1,890	16,347	18,237	1.00
81	Sugar	0	1,433	4,743	6,176	1.00
82	Confectionery Products	0	989	5,562	6,552	1.00
83	Chocolate and Cocoa Products	0	0	0	0	1.00
84	Chewing Gum	0	0	0	0	1.00
85	Salted and Roasted Nuts & Seeds	0	35	441	475	1.00
86	Cottonseed Oil Mills	0	284	424	708	1.00
87	Soybean Oil Mills	0	0	0	0	1.00
88	Vegetable Oil Mills- N.E.C	0	56	268	325	1.00
89	Animal and Marine Fats and Oils	0	792	1,106	1,898	1.00
90	Shortening and Cooking Oils	0	11,158	33,756	44,914	1.00
91	Malt Beverages	0	448	10,907	11,356	1.00
92	Malt	0	0	0	0	1.00
93	Wines- Brandy- and Brandy Spirits	0	0	0	0	1.00
94	Distilled Liquor- Except Brandy	0	0	0	0	1.00
95	Bottled and Canned Soft Drinks & Water	0	2,045	16,687	18,732	1.00
96	Flavoring Extracts and Syrups- N.E.C	0	1,751	9,500	11,250	1.00
97	Canned and Cured Sea Foods	0	3	11	15	1.00
98	Prepared Fresh Or Frozen Fish Or Se	0	0	0	0	1.00
99	Roasted Coffee	0	5,301	3,312	8,614	1.00
100	Potato Chips & Similar Snacks	0	1,187	71,140	72,327	1.00
101	Manufactured Ice	0	0	2,898	2,898	1.00
102	Macaroni and Spaghetti	0	94	2,021	2,116	1.00
103	Food Preparations- N.E.C	0	8,205	112,244	120,449	1.00
104	Cigarettes	0	0	0	0	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
105	Cigars	0	0	0	0	1.00
106	Chewing and Smoking Tobacco	0	0	0	0	1.00
107	Tobacco Stemming and Redrying	0	0	0	0	1.00
108	Broadwoven Fabric Mills and Finishing	0	1,040	899	1,939	1.00
109	Narrow Fabric Mills	0	28	95	123	1.00
110	Women's Hosiery- Except Socks	0	0	0	0	1.00
111	Hosiery- N.E.C	0	0	113	113	1.00
112	Knit Outerwear Mills	0	4	27	30	1.00
113	Knit Underwear Mills	0	0	0	0	1.00
114	Knit Fabric Mills	3,703	198	996	4,897	1.00
115	Knitting Mills- N.E.C.	0	0	0	0	1.00
116	Yarn Mills and Finishing Of Textiles-	0	29	33	62	1.00
117	Carpets and Rugs	0	37	173	210	1.00
118	Thread Mills	0	61	89	150	1.00
119	Coated Fabrics- Not Rubberized	0	26	62	88	1.00
120	Tire Cord and Fabric	0	0	0	0	1.00
121	Non woven Fabrics	0	0	0	0	1.00
122	Cordage and Twine	0	76	157	233	1.00
123	Textile Goods- N.E.C	0	60	61	121	1.00
124	Apparel Made From Purchased Material	0	14,531	163,424	177,954	1.00
125	Curtains and Draperies	0	8,067	13,776	21,843	1.00
126	House furnishings- N.E.C	0	112,444	61,907	174,350	1.00
127	Textile Bags	0	449	679	1,128	1.00
128	Canvas Products	0	825	3,094	3,919	1.00
129	Pleating and Stitching	0	260	5,678	5,938	1.00
130	Automotive and Apparel Trimmings	0	885	26,326	27,211	1.00
131	Schiffi Machine Embroideries	0	26	60	86	1.00
132	Fabricated Textile Products- N.E.C.	0	5,873	13,099	18,972	1.00
133	Logging Camps and Logging Contractor	0	480	564	1,044	1.00
134	Sawmills and Planing Mills- General	0	1,917	2,295	4,211	1.00
135	Hardwood Dimension and Flooring Mi	0	1,266	4,390	5,657	1.00
136	Special Product Sawmills- N.E.C	0	0	0	0	1.00
137	Millwork	0	5,899	9,499	15,398	1.00
138	Wood Kitchen Cabinets	0	3,980	8,782	12,762	1.00
139	Veneer and Plywood	0	12	17	29	1.00
140	Structural Wood Members- N.E.C	0	1,546	2,920	4,466	1.00
141	Wood Containers	0	935	622	1,557	1.00
142	Wood Pallets and Skids	0	6,046	3,901	9,947	1.00
143	Mobile Homes	0	100	12	112	1.00
144	Prefabricated Wood Buildings	0	4	9	14	1.00
145	Wood Preserving	0	406	767	1,173	1.00
146	Reconstituted Wood Products	0	554	667	1,222	1.00
147	Wood Products- N.E.C	0	10,520	19,652	30,173	1.00
148	Wood Household Furniture	0	213	11,557	11,770	1.00
149	Upholstered Household Furniture	0	128	32,206	32,334	1.00
150	Metal Household Furniture	0	146	8,506	8,652	1.00
151	Mattresses and Bedspings	0	117	30,601	30,719	1.00
152	Wood TV and Radio Cabinets	0	20	353	372	1.00
153	Household Furniture- N.E.C	0	8,588	1,346	9,934	1.00
154	Wood Office Furniture	0	22	1,420	1,442	1.00
155	Metal Office Furniture	0	39	236	275	1.00
156	Public Building Furniture	0	1,097	6,692	7,789	1.00
157	Wood Partitions and Fixtures	0	44	166	209	1.00
158	Metal Partitions and Fixtures	0	176	314	490	1.00
159	Blinds- Shades- and Drapery Hardware	0	17	17,929	17,945	1.00
160	Furniture and Fixtures- N.E.C	0	557	410	967	1.00
161	Pulp Mills	0	25	15	40	1.00
162	Paper Mills- Except Building Paper	0	13	16	30	1.00
163	Paperboard Mills	0	198	244	442	1.00
164	Paperboard Containers and Boxes	0	257,645	78,334	335,979	1.00
165	Paper Coated & Laminated Packaging	0	1,350	422	1,772	1.00
166	Paper Coated & Laminated N.E.C.	0	4,913	1,538	6,451	1.00
167	Bags- Plastic	0	1,310	552	1,862	1.00
168	Bags- Paper	0	20	8	28	1.00
169	Die-cut Paper and Board	0	228	106	334	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
170	Sanitary Paper Products	0	446	136	583	1.00
171	Envelopes	0	125	56	181	1.00
172	Stationery Products	0	520	293	813	1.00
173	Converted Paper Products- N.E.C	0	408	489	897	1.00
174	Newspapers	0	60,607	66,310	126,917	1.00
175	Periodicals	0	35,823	34,719	70,542	1.00
176	Book Publishing	0	5,065	41,415	46,479	1.00
177	Book Printing	0	1,451	2,185	3,636	1.00
178	Miscellaneous Publishing	10,035	21,587	22,283	53,904	1.00
179	Commercial Printing	0	205,450	107,801	313,251	1.00
180	Manifold Business Forms	0	21,965	7,169	29,134	1.00
181	Greeting Card Publishing	0	283	6,728	7,012	1.00
182	Blankbooks and Looseleaf Binder	0	6,897	5,419	12,317	1.00
183	Bookbinding & Related	0	330	1,174	1,503	1.00
184	Typesetting	0	1,976	656	2,631	1.00
185	Plate Making	0	3,134	1,649	4,783	1.00
186	Alkalies & Chlorine	0	0	0	0	1.00
187	Industrial Gases	0	40,491	4,689	45,180	1.00
188	Inorganic Pigments	0	2,796	324	3,120	1.00
189	Inorganic Chemicals Nec.	0	46,038	5,332	51,370	1.00
190	Cyclic Crudes- Interm. & Indus. Orga	0	311,906	36,122	348,028	1.00
191	Plastics Materials and Resins	0	33,382	2,986	36,368	1.00
192	Synthetic Rubber	0	410	28	438	1.00
193	Cellulosic Man-made Fibers	0	0	0	0	1.00
194	Organic Fibers- Non cellulosic	0	0	0	0	1.00
195	Drugs	144,646	1,395,897	299,122	1,839,665	1.00
196	Soap and Other Detergents	23,044	3,385	26,157	52,587	1.00
197	Polishes and Sanitation Goods	0	22,667	57,866	80,533	1.00
198	Surface Active Agents	0	416	99	516	1.00
199	Toilet Preparations	0	12,331	109,327	121,658	1.00
200	Paints and Allied Products	0	1,488	547	2,035	1.00
201	Gum and Wood Chemicals	0	0	0	0	1.00
202	Nitrogenous and Phosphatic Fertilizer	0	646	196	843	1.00
203	Fertilizers- Mixing Only	0	675	481	1,155	1.00
204	Agricultural Chemicals- N.E.C	0	3,849	1,352	5,200	1.00
205	Adhesives and Sealants	0	18,890	10,987	29,876	1.00
206	Explosives	0	215	132	347	1.00
207	Printing Ink	0	8,274	4,555	12,829	1.00
208	Carbon Black	0	9	4	13	1.00
209	Chemical Preparations- N.E.C	0	30,237	11,747	41,984	1.00
210	Petroleum Refining	0	38,505	109,182	147,687	1.00
211	Paving Mixtures and Blocks	0	3,366	4,820	8,186	1.00
212	Asphalt Felts and Coatings	0	6,919	8,064	14,983	1.00
213	Lubricating Oils and Greases	0	23,812	30,050	53,861	1.00
214	Petroleum and Coal Products- N.E.C.	0	0	0	0	1.00
215	Tires and Inner Tubes	0	6	18	24	1.00
216	Rubber and Plastics Footwear	0	0	0	0	1.00
217	Rubber and Plastics Hose and Belting	0	2	1	4	1.00
218	Gaskets- Packing and Sealing Device	0	122	62	184	1.00
219	Fabricated Rubber Products- N.E.C.	0	2,245	439	2,684	1.00
220	Miscellaneous Plastics Products	0	9,452	3,139	12,590	1.00
221	Leather Tanning and Finishing	0	184	3,434	3,618	1.00
222	Footwear Cut Stock	0	0	60	60	1.00
223	House Slippers	0	0	0	0	1.00
224	Shoes- Except Rubber	0	11	9,779	9,790	1.00
225	Leather Gloves and Mittens	0	0	0	0	1.00
226	Luggage	0	893	2,127	3,020	1.00
227	Women's Handbags and Purses	0	47	330	377	1.00
228	Personal Leather Goods	0	4	74	78	1.00
229	Leather Goods- N.E.C	0	123	3,662	3,785	1.00
230	Glass and Glass Products- Except Containers	0	47,901	12,254	60,155	1.00
231	Glass Containers	0	2,922	2,984	5,906	1.00
232	Cement- Hydraulic	0	91	18	109	1.00
233	Brick and Structural Clay Tile	0	6	11	17	1.00
234	Ceramic Wall and Floor Tile	0	44	89	133	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
235	Clay Refractories	0	1	0	1	1.00
236	Structural Clay Products- N.E.C	0	0	0	0	1.00
237	Vitreous Plumbing Fixtures	0	0	0	0	1.00
238	Vitreous China Food Utensils	0	0	0	0	1.00
239	Fine Earthenware Food Utensils	0	0	0	0	1.00
240	Porcelain Electrical Supplies	0	149	29	178	1.00
241	Pottery Products- N.E.C	0	14	13	27	1.00
242	Concrete Block and Brick	0	7	11	18	1.00
243	Concrete Products- N.E.C	0	38	41	79	1.00
244	Ready-mixed Concrete	0	86	136	223	1.00
245	Lime	0	403	49	452	1.00
246	Gypsum Products	0	51	43	94	1.00
247	Cut Stone and Stone Products	0	5	18	23	1.00
248	Abrasive Products	0	450	118	568	1.00
249	Asbestos Products	0	0	0	0	1.00
250	Minerals- Ground Or Treated	0	2	1	3	1.00
251	Mineral Wool	0	761	368	1,129	1.00
252	Nonclay Refractories	0	53	6	59	1.00
253	Nonmetallic Mineral Products- N.E.C	0	240	115	355	1.00
254	Blast Furnaces and Steel Mills	1,009	3,829	1,108	5,946	1.00
255	Electrometallurgical Products	0	17	4	20	1.00
256	Steel Wire and Related Products	0	469	434	903	1.00
257	Cold Finishing Of Steel Shapes	0	28	7	36	1.00
258	Steel Pipe and Tubes	0	351	87	438	1.00
259	Iron and Steel Foundries	0	82	31	113	1.00
260	Primary Copper	0	0	0	0	1.00
261	Primary Aluminum	0	0	0	0	1.00
262	Primary Nonferrous Metals- N.E.C.	0	38	5	44	1.00
263	Secondary Nonferrous Metals	0	853	91	943	1.00
264	Copper Rolling and Drawing	0	147	63	210	1.00
265	Aluminum Rolling and Drawing	0	1,072	533	1,605	1.00
266	Nonferrous Rolling and Drawing- N.E	0	220	59	279	1.00
267	Nonferrous Wire Drawing and Insulation	0	3,593	993	4,586	1.00
268	Aluminum Foundries	0	369	90	459	1.00
269	Brass- Bronze- and Copper Foundries	0	11	3	13	1.00
270	Nonferrous Castings- N.E.C.	0	236	58	294	1.00
271	Metal Heat Treating	0	441	126	567	1.00
272	Primary Metal Products- N.E.C	0	9	8	17	1.00
273	Metal Cans	0	786	901	1,687	1.00
274	Metal Barrels- Drums and Pails	0	598	465	1,063	1.00
275	Cutlery	0	0	0	0	1.00
276	Hand and Edge Tools- N.E.C.	0	2,124	5,231	7,355	1.00
277	Hand Saws and Saw Blades	0	30	167	197	1.00
278	Hardware- N.E.C.	0	1,021	1,838	2,859	1.00
279	Metal Sanitary Ware	0	26	61	87	1.00
280	Plumbing Fixture Fittings and Trim	0	583	381	965	1.00
281	Heating Equipment- Except Electric	0	67	135	202	1.00
282	Fabricated Structural Metal	0	433	268	701	1.00
283	Metal Doors- Sash- and Trim	0	1,278	1,283	2,562	1.00
284	Fabricated Plate Work (Boiler Shops)	0	338	137	475	1.00
285	Sheet Metal Work	0	2,135	1,141	3,276	1.00
286	Architectural Metal Work	0	153	152	305	1.00
287	Prefabricated Metal Buildings	0	95	140	235	1.00
288	Miscellaneous Metal Work	0	591	424	1,015	1.00
289	Screw Machine Products and Bolts- Et	0	8,810	1,414	10,224	1.00
290	Iron and Steel Forgings	0	1,211	150	1,361	1.00
291	Nonferrous Forgings	0	46	4	50	1.00
292	Automotive Stampings	0	792	2,258	3,050	1.00
293	Crowns and Closures	0	407	603	1,010	1.00
294	Metal Stampings- N.E.C.	0	27,323	4,060	31,382	1.00
295	Plating and Polishing	0	2,511	452	2,963	1.00
296	Metal Coating and Allied Services	0	24,910	714	25,623	1.00
297	Small Arms Ammunition	0	0	0	0	1.00
298	Ammunition- Except For Small Arms-	0	0	0	0	1.00
299	Small Arms	0	15	14	28	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
300	Other Ordnance and Accessories	0	0	0	0	1.00
301	Industrial and Fluid Valves	0	1,693	1,367	3,060	1.00
302	Steel Springs- Except Wire	0	71	139	209	1.00
303	Pipe- Valves- and Pipe Fittings	0	253	204	457	1.00
304	Miscellaneous Fabricated Wire Products	0	4,135	3,446	7,581	1.00
305	Metal Foil and Leaf	0	0	0	0	1.00
306	Fabricated Metal Products- N.E.C.	0	7,356	1,631	8,986	1.00
307	Steam Engines and Turbines	0	354	849	1,203	1.00
308	Internal Combustion Engines- N.E.C.	0	562	1,206	1,768	1.00
309	Farm Machinery and Equipment	0	147	287	434	1.00
310	Lawn and Garden Equipment	0	0	0	0	1.00
311	Construction Machinery and Equipment	0	165	270	434	1.00
312	Mining Machinery- Except Oil Field	0	51	97	148	1.00
313	Oil Field Machinery	0	3,453	1,506	4,959	1.00
314	Elevators and Moving Stairways	0	52	29	81	1.00
315	Conveyors and Conveying Equipment	0	241	177	418	1.00
316	Hoists- Cranes- and Monorails	0	32	79	110	1.00
317	Industrial Trucks and Tractors	0	688	396	1,084	1.00
318	Machine Tools- Metal Cutting Types	0	15	74	89	1.00
319	Machine Tools- Metal Forming Types	0	42	19	61	1.00
320	Industrial Patterns	0	1	0	1	1.00
321	Special Dies and Tools and Accessories	0	3,085	906	3,992	1.00
322	Power Driven Hand Tools	0	135	3,933	4,068	1.00
323	Rolling Mill Machinery	0	0	0	0	1.00
324	Welding Apparatus	0	837	468	1,306	1.00
325	Metalworking Machinery- N.E.C.	0	128	79	207	1.00
326	Textile Machinery	0	54	49	103	1.00
327	Woodworking Machinery	0	1	441	442	1.00
328	Paper Industries Machinery	0	443	148	591	1.00
329	Printing Trades Machinery	0	439	237	676	1.00
330	Food Products Machinery	0	779	850	1,629	1.00
331	Special Industry Machinery N.E.C.	0	1,577	702	2,280	1.00
332	Pumps and Compressors	0	155	311	466	1.00
333	Ball and Roller Bearings	0	0	0	0	1.00
334	Blowers and Fans	0	162	235	396	1.00
335	Packaging Machinery	0	613	847	1,460	1.00
336	Power Transmission Equipment	0	108	97	206	1.00
337	Industrial Furnaces and Ovens	0	81	18	99	1.00
338	General Industrial Machinery- N.E.C	0	97	69	166	1.00
339	Electronic Computers	0	11,570	9,071	20,641	1.00
340	Computer Storage Devices	0	580	80	661	1.00
341	Computer Terminals	0	17	2	20	1.00
342	Computer Peripheral Equipment-	0	66,464	9,208	75,673	1.00
343	Calculating and Accounting Machines	0	1,118	475	1,594	1.00
344	Typewriters and Office Machines N.E	0	1,046	2,471	3,517	1.00
345	Automatic Merchandising Machine	0	130	391	521	1.00
346	Commercial Laundry Equipment	0	954	308	1,261	1.00
347	Refrigeration and Heating Equipment	27,759	29,354	34,026	91,139	1.00
348	Measuring and Dispensing Pumps	0	0	0	0	1.00
349	Service Industry Machines- N.E.C.	0	614	1,875	2,489	1.00
350	Carburetors- Pistons- Rings- Valves	0	125	188	313	1.00
351	Fluid Power Cylinders & Actuators	0	72	46	118	1.00
352	Fluid Power Pumps & Motors	0	2	1	4	1.00
353	Scales and Balances	0	74	556	630	1.00
354	Industrial Machines N.E.C.	0	555	157	712	1.00
355	Transformers	0	152	55	208	1.00
356	Switchgear and Switchboard Apparatus	0	1,156	1,184	2,340	1.00
357	Motors and Generators	0	1,462	1,441	2,903	1.00
358	Carbon and Graphite Products	0	0	0	0	1.00
359	Relays & Industrial Controls	0	7,903	1,359	9,262	1.00
360	Electrical Industrial Apparatus- N.E.C	0	90	47	137	1.00
361	Household Cooking Equipment	0	3	12	15	1.00
362	Household Refrigerators and Freezers	0	0	0	0	1.00
363	Household Laundry Equipment	0	0	2	3	1.00
364	Electric House wares and Fans	0	414	696	1,109	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
365	Household Vacuum Cleaners	0	2	39	41	1.00
366	Household Appliances- N.E.C.	0	4	11	15	1.00
367	Electric Lamps	0	12	7	19	1.00
368	Wiring Devices	0	1,451	314	1,766	1.00
369	Lighting Fixtures and Equipment	0	485	462	947	1.00
370	Radio and TV Receiving Sets	0	2,207	30,998	33,205	1.00
371	Phonograph Records and Tape	0	1,100	7,340	8,440	1.00
372	Telephone and Telegraph Apparatus	0	26,274	30,427	56,701	1.00
373	Radio and TV Communication Equipment	0	8,860	16,453	25,314	1.00
374	Communications Equipment N.E.C.	0	658	1,222	1,880	1.00
375	Electron Tubes	0	304	209	513	1.00
376	Printed Circuit Boards	0	39,276	5,566	44,842	1.00
377	Semiconductors and Related Devices	0	298,925	57,266	356,191	1.00
378	Electronic Components- N.E.C.	0	250,485	35,499	285,984	1.00
379	Storage Batteries	0	2,730	18,746	21,476	1.00
380	Primary Batteries- Dry and Wet	0	0	0	0	1.00
381	Engine Electrical Equipment	0	7,573	11,779	19,351	1.00
382	Magnetic & Optical Recording Media	0	1,200	425	1,625	1.00
383	Electrical Equipment- N.E.C.	0	140	5,001	5,141	1.00
384	Motor Vehicles	29,180	3,209	315,050	347,439	1.00
385	Truck and Bus Bodies	0	208	4,144	4,352	1.00
386	Motor Vehicle Parts and Accessories	0	28,773	48,423	77,196	1.00
387	Truck Trailers	0	77	322	399	1.00
388	Motor Homes	0	9	955	964	1.00
389	Aircraft	0	9,322	20,588	29,910	1.00
390	Aircraft and Missile Engines and Part	0	1,055	1,425	2,480	1.00
391	Aircraft and Missile Equipment-	0	694	958	1,652	1.00
392	Ship Building and Repairing	0	0	0	0	1.00
393	Boat Building and Repairing	0	1	154	155	1.00
394	Railroad Equipment	0	1,093	1,849	2,942	1.00
395	Motorcycles- Bicycles- and Parts	0	8	23	31	1.00
396	Complete Guided Missiles	0	0	1	2	1.00
397	Travel Trailers and Camper	0	3	198	201	1.00
398	Tanks and Tank Components	0	0	0	0	1.00
399	Transportation Equipment- N.E.C	0	67	346	413	1.00
400	Search & Navigation Equipment	0	1,873	2,581	4,454	1.00
401	Laboratory Apparatus & Furniture	5,962	99	51	6,112	1.00
402	Automatic Temperature Controls	0	78	86	164	1.00
403	Mechanical Measuring Devices	0	3,213	1,735	4,949	1.00
404	Instruments To Measure Electricity	3,166	281	114	3,560	1.00
405	Analytical Instruments	33,372	6,916	2,182	42,471	1.00
406	Optical Instruments & Lenses	0	2,661	840	3,501	1.00
407	Surgical and Medical Instrument	3,941,071	286,436	15,630	4,243,137	1.00
408	Surgical Appliances and Supplies	358,911	606,459	48,259	1,013,629	1.00
409	Dental Equipment and Supplies	0	1,819	958	2,777	1.00
410	X-Ray Apparatus	30,477	61	43	30,581	1.00
411	Electromedical Apparatus	677,897	15,145	1,176	694,217	1.00
412	Ophthalmic Goods	9,574	362	22,760	32,696	1.00
413	Photographic Equipment and Supplies	0	2,737	7,615	10,351	1.00
414	Watches- Clocks- and Parts	0	15	109	124	1.00
415	Jewelry- Precious Metal	0	293	2,955	3,248	1.00
416	Silverware and Plated Ware	0	16	97	113	1.00
417	Jewelers Materials and Lapidary Work	0	0	1	1	1.00
418	Musical Instruments	0	81	105	186	1.00
419	Dolls	0	0	17	17	1.00
420	Games- Toys- and Children's Vehicles	0	50	271	321	1.00
421	Sporting and Athletic Goods- N.E.C.	0	777	3,968	4,745	1.00
422	Pens and Mechanical Pencils	0	6	10	16	1.00
423	Lead Pencils and Art Goods	0	2	3	5	1.00
424	Marking Devices	0	273	92	365	1.00
425	Carbon Paper and Inked Ribbons	0	190	97	287	1.00
426	Costume Jewelry	0	34	167	201	1.00
427	Fasteners- Buttons- Needles- Pins	0	3	26	29	1.00
428	Brooms and Brushes	0	311	278	589	1.00
429	Signs and Advertising Displays	0	13,944	10,757	24,700	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
430	Burial Caskets and Vaults	0	0	97	97	1.00
431	Hard Surface Floor Coverings	0	0	0	0	1.00
432	Manufacturing Industries- N.E.C.	0	2,040	3,520	5,560	1.00
433	Railroads and Related Services	0	26,055	29,321	55,376	1.00
434	Local- Interurban Passenger Transit	4,052	26,555	93,723	124,330	1.00
435	Motor Freight Transport and Warehouse	59,293	682,964	561,164	1,303,421	1.00
436	Water Transportation	0	2,694	9,432	12,126	1.00
437	Air Transportation	0	145,895	246,667	392,561	1.00
438	Pipe Lines- Except Natural Gas	0	4,292	13,124	17,416	1.00
439	Arrangement Of Passenger Transportation	0	19,165	44,856	64,021	1.00
440	Transportation Services	0	28,175	26,459	54,633	1.00
441	Communications- Except Radio and	296,622	741,705	885,215	1,923,542	1.00
442	Radio and TV Broadcasting	0	110,161	96,079	206,240	1.00
443	Electric Services	0	339,485	832,819	1,172,304	1.00
444	Gas Production and Distribution	0	101,663	242,977	344,639	1.00
445	Water Supply and Sewerage Systems	0	4,782	16,653	21,435	1.00
446	Sanitary Services and Steam Supply	120,586	218,355	79,499	418,439	1.00
447	Wholesale Trade	1,660,551	2,030,396	2,348,164	6,039,111	1.00
448	Building Materials & Gardening	0	10,270	349,328	359,598	1.00
449	General Merchandise Stores	0	5,448	748,351	753,799	1.00
450	Food Stores	0	5,774	791,078	796,852	1.00
451	Automotive Dealers & Service Station	0	39,901	1,150,294	1,190,195	1.00
452	Apparel & Accessory Stores	0	4,445	392,828	397,273	1.00
453	Furniture & Home Furnishings Stores	335,794	6,141	405,202	747,136	1.00
454	Eating & Drinking	0	385,269	1,807,911	2,193,180	1.00
455	Miscellaneous Retail	715,483	22,642	1,280,610	2,018,735	1.00
456	Banking	0	549,497	1,658,850	2,208,347	1.00
457	Credit Agencies	0	221,879	434,167	656,046	1.00
458	Security and Commodity Brokers	0	416,787	426,971	843,757	1.00
459	Insurance Carriers	0	91,920	1,254,823	1,346,743	1.00
460	Insurance Agents and Brokers	0	18,921	258,297	277,218	1.00
461	Owner-occupied Dwellings	0	0	3,814,535	3,814,535	1.00
462	Real Estate	0	2,942,342	1,916,298	4,858,641	1.00
463	Hotels and Lodging Places	0	330,069	492,793	822,862	1.00
464	Laundry- Cleaning and Shoe Repair	351,749	113,289	149,864	614,901	1.00
465	Portrait and Photographic Studios	0	1,561	39,211	40,772	1.00
466	Beauty and Barber Shops	0	0	169,740	169,740	1.00
467	Funeral Service and Crematories	0	0	54,286	54,286	1.00
468	Miscellaneous Personal Services	0	7,943	199,535	207,478	1.00
469	Advertising	0	161,026	122,312	283,338	1.00
470	Other Business Services	0	1,055,922	427,367	1,483,289	1.00
471	Photofinishing- Commercial Photography	0	149,083	113,422	262,504	1.00
472	Services To Buildings	0	571,398	122,269	693,667	1.00
473	Equipment Rental and Leasing	0	235,004	78,006	313,010	1.00
474	Personnel Supply Services	53,568	708,668	227,530	989,766	1.00
475	Computer and Data Processing Service	219,719	1,754,185	546,283	2,520,188	1.00
476	Detective and Protective Services	0	298,375	63,718	362,093	1.00
477	Automobile Rental and Leasing	0	107,173	98,242	205,415	1.00
478	Automobile Parking and Car Wash	0	6,111	80,361	86,473	1.00
479	Automobile Repair and Services	0	170,378	460,697	631,075	1.00
480	Electrical Repair Service	0	53,523	61,311	114,834	1.00
481	Watch- Clock- Jewelry and Furniture	0	457	24,157	24,614	1.00
482	Miscellaneous Repair Shops	61,090	102,153	62,149	225,392	1.00
483	Motion Pictures	0	66,443	233,279	299,722	1.00
484	Theatrical Producers- Bands Etc.	0	26,111	94,256	120,366	1.00
485	Bowling Alleys and Pool Halls	0	16	20,484	20,500	1.00
486	Commercial Sports Except Racing	0	30,143	78,672	108,815	1.00
487	Racing and Track Operation	0	35	47,564	47,599	1.00
488	Amusement and Recreation Services-	15,851	12	315,555	331,418	1.00
489	Membership Sports and Recreation Cl	0	15,976	110,504	126,480	1.00
490	Doctors and Dentists	1,154,168	0	1,799,077	2,953,245	1.00
491	Nursing and Protective Care	0	0	184,414	184,414	1.00
492	Hospitals	73,536,808	3,496	1,311,303	74,851,608	1.00
493	Other Medical and Health Services	374,966	25,080	550,642	950,687	1.00
494	Legal Services	0	908,035	704,177	1,612,212	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
495	Elementary and Secondary Schools	0	0	126,342	126,342	1.00
496	Colleges- Universities- Schools	0	18,340	149,505	167,844	1.00
497	Other Educational Services	0	8,718	154,123	162,841	1.00
498	Job Trainings & Related Services	0	13,579	31,043	44,623	1.00
499	Child Day Care Services	0	0	243,104	243,104	1.00
500	Social Services- N.E.C.	0	0	174,324	174,324	1.00
501	Residential Care	0	0	66,580	66,580	1.00
502	Other Nonprofit Organizations	0	5,467	58,740	64,207	1.00
503	Business Associations	0	36,496	75,029	111,525	1.00
504	Labor and Civic Organizations	0	301	119,939	120,240	1.00
505	Religious Organizations	0	0	158,070	158,070	1.00
506	Engineering- Architectural Services	68,773	145,230	75,675	289,677	1.00
507	Accounting- Auditing and Bookkeeping	0	505,112	268,069	773,180	1.00
508	Management and Consulting Services	202,062	2,568,616	286,979	3,057,656	1.00
509	Research- Development & Testing Ser	28,724	329,959	53,990	412,673	1.00
510	Local Government Passenger Transit	0	6,077	21,563	27,640	1.00
511	State and Local Electric Utilities	0	35,550	87,986	123,536	1.00
512	Other State and Local Govt Enterprise	0	119,211	353,845	473,057	1.00
513	U.S. Postal Service	0	493,191	185,533	678,724	1.00
514	Federal Electric Utilities	0	0	0	0	1.00
515	Other Federal Government Enterprise	0	17,439	108,448	125,887	1.00
516	Noncomparable Imports	0	0	0	0	1.00
517	Scrap	0	0	0	0	1.00
518	Used and Secondhand Goods	0	0	0	0	1.00
519	Federal Government - Military	0	0	0	0	1.00
520	Federal Government - Non-Military	0	0	0	0	1.00
521	Commodity Credit Corporation	0	0	0	0	1.00
522	State & Local Government - Education	0	0	703,509	703,509	1.00
523	State & Local Government - Non-Educ	0	0	738,928	738,928	1.00
524	Rest Of The World Industry	0	0	0	0	1.00
525	Domestic Services	0	0	106,535	106,535	1.00
526	Dummy	0	0	0	0	1.00
527	Dummy	0	0	0	0	1.00
528	Inventory Valuation Adjustment	0	0	0	0	1.00
25001	Foreign Trade	399,736	0	0	399,736	1.00
28001	Domestic Trade	21,573,444	0	0	21,573,444	1.00
	Total	106,532,845	26,432,257	40,429,929	173,395,032	

Note: *1999 Dollars - if results are deflated and aggregated, then deflators displayed are set to 1.0 (results have been deflated)

DFW 1999.iap

IMPACT NAME: Baylor-Grapevine Employment <30k MULTIPLIER: Type SAM

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
1	Dairy Farm Products	86	931	217	1,234	1.00
2	Poultry and Eggs	585	584	227	1,396	1.00
3	Ranch Fed Cattle	52	3,226	620	3,898	1.00
4	Range Fed Cattle	25	1,538	296	1,859	1.00
5	Cattle Feedlots	6	534	102	642	1.00
6	Sheep- Lambs and Goats	0	18	3	22	1.00
7	Hogs- Pigs and Swine	1	79	15	95	1.00
8	Other Meat Animal Products	0	1	0	1	1.00
9	Miscellaneous Livestock	728	155	311	1,194	1.00
10	Cotton	1	3	1	5	1.00
11	Food Grains	4	8	3	15	1.00
12	Feed Grains	37	61	24	123	1.00
13	Hay and Pasture	52	87	34	174	1.00
14	Grass Seeds	0	0	0	0	1.00
15	Tobacco	0	0	0	0	1.00
16	Fruits	232	1	42	276	1.00
17	Tree Nuts	223	13	42	278	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
18	Vegetables	214	21	45	279	1.00
19	Sugar Crops	0	0	0	0	1.00
20	Miscellaneous Crops	0	0	0	0	1.00
21	Oil Bearing Crops	10	67	15	91	1.00
22	Forest Products	2	1	1	4	1.00
23	Greenhouse and Nursery Products	5,603	937	1,476	8,016	1.00
24	Forestry Products	11	1	3	15	1.00
25	Commercial Fishing	6	7	3	16	1.00
26	Agricultural- Forestry- Fishery Service	69	41	35	145	1.00
27	Landscape and Horticultural Services	0	8,697	3,485	12,182	1.00
28	Iron Ores	0	0	0	0	1.00
29	Copper Ores	0	0	0	0	1.00
30	Lead and Zinc Ores	0	0	0	0	1.00
31	Gold Ores	0	7	3	10	1.00
32	Silver Ores	0	0	0	0	1.00
33	Ferroalloy Ores- Except Vanadium	0	0	0	0	1.00
34	Metal Mining Services	0	0	0	0	1.00
35	Uranium-radium-vanadium Ores	0	2	1	3	1.00
36	Metal Ores- Not Elsewhere Classified	0	0	0	0	1.00
37	Coal Mining	1	72	16	89	1.00
38	Natural Gas & Crude Petroleum	28,463	27,461	15,469	71,393	1.00
39	Natural Gas Liquids	6,634	6,401	3,606	16,641	1.00
40	Dimension Stone	0	6	3	9	1.00
41	Sand and Gravel	0	13	4	18	1.00
42	Clay- Ceramic- Refractory Minerals-	0	0	0	0	1.00
43	Potash- Soda- and Borate Minerals	0	0	0	0	1.00
44	Phosphate Rock	0	0	0	0	1.00
45	Chemical- Fertilizer Mineral Mining-	0	3	1	4	1.00
46	Nonmetallic Minerals (Except Fuels)	0	0	0	0	1.00
47	Misc. Nonmetallic Minerals- N.E.C.	0	0	0	0	1.00
48	New Residential Structures	0	0	0	0	1.00
49	New Industrial and Commercial Build	0	0	0	0	1.00
50	New Utility Structures	0	0	0	0	1.00
51	New Highways and Streets	0	0	0	0	1.00
52	New Farm Structures	0	0	0	0	1.00
53	New Mineral Extraction Facilities	0	0	0	0	1.00
54	New Government Facilities	0	0	0	0	1.00
55	Maintenance and Repair- Residential	0	58,366	16,139	74,505	1.00
56	Maintenance and Repair Other Facility	0	60,409	33,469	93,878	1.00
57	Maintenance and Repair Oil and Gas	0	1,199	332	1,531	1.00
58	Meat Packing Plants	16,168	2,993	3,603	22,764	1.00
59	Sausages and Other Prepared Meats	35,138	4,206	7,510	46,854	1.00
60	Poultry Processing	6,719	746	1,378	8,843	1.00
61	Creamery Butter	15	4	4	24	1.00
62	Cheese- Natural and Processed	223	36	53	313	1.00
63	Condensed and Evaporated Milk	0	0	0	0	1.00
64	Ice Cream and Frozen Desserts	4,115	1,070	1,192	6,377	1.00
65	Fluid Milk	23,672	1,554	5,324	30,550	1.00
66	Canned Specialties	205	11	41	258	1.00
67	Canned Fruits and Vegetables	123	10	27	160	1.00
68	Dehydrated Food Products	49	6	11	67	1.00
69	Pickles- Sauces- and Salad Dressings	840	118	188	1,147	1.00
70	Frozen Fruits- Juices and Vegetables	3	0	1	5	1.00
71	Frozen Specialties	729	61	151	941	1.00
72	Flour and Other Grain Mill Products	102	147	50	300	1.00
73	Cereal Preparations	0	0	0	0	1.00
74	Rice Milling	0	0	0	0	1.00
75	Blended and Prepared Flour	769	51	154	974	1.00
76	Wet Corn Milling	0	0	0	0	1.00
77	Dog- Cat- and Other Pet Food	92	1	17	110	1.00
78	Prepared Feeds- N.E.C	142	36	34	212	1.00
79	Bread- Cake- and Related Products	20,367	4,632	5,373	30,372	1.00
80	Cookies and Crackers	3,435	141	661	4,237	1.00
81	Sugar	723	270	199	1,191	1.00
82	Confectionery Products	1,184	51	224	1,459	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
83	Chocolate and Cocoa Products	0	0	0	0	1.00
84	Chewing Gum	0	0	0	0	1.00
85	Salted and Roasted Nuts & Seeds	90	7	18	115	1.00
86	Cottonseed Oil Mills	1	86	18	105	1.00
87	Soybean Oil Mills	0	0	0	0	1.00
88	Vegetable Oil Mills- N.E.C	32	25	11	68	1.00
89	Animal and Marine Fats and Oils	23	179	47	248	1.00
90	Shortening and Cooking Oils	4,840	2,409	1,396	8,645	1.00
91	Malt Beverages	1,515	256	438	2,209	1.00
92	Malt	0	0	0	0	1.00
93	Wines- Brandy- and Brandy Spirits	0	0	0	0	1.00
94	Distilled Liquor- Except Brandy	0	0	0	0	1.00
95	Bottled and Canned Soft Drinks & Water	3,455	168	668	4,292	1.00
96	Flavoring Extracts and Syrups- N.E.C	1,780	205	390	2,375	1.00
97	Canned and Cured Sea Foods	2	0	0	3	1.00
98	Prepared Fresh Or Frozen Fish Or Se	0	0	0	0	1.00
99	Roasted Coffee	506	130	140	776	1.00
100	Potato Chips & Similar Snacks	14,961	586	2,834	18,381	1.00
101	Manufactured Ice	653	0	115	768	1.00
102	Macaroni and Spaghetti	432	12	81	525	1.00
103	Food Preparations- N.E.C	24,299	683	4,591	29,573	1.00
104	Cigarettes	0	0	0	0	1.00
105	Cigars	0	0	0	0	1.00
106	Chewing and Smoking Tobacco	0	0	0	0	1.00
107	Tobacco Stemming and Redrying	0	0	0	0	1.00
108	Broadwoven Fabric Mills and Finishing	39	67	38	143	1.00
109	Narrow Fabric Mills	3	8	4	15	1.00
110	Women's Hosiery- Except Socks	0	0	0	0	1.00
111	Hosiery- N.E.C	14	0	5	18	1.00
112	Knit Outerwear Mills	3	0	1	4	1.00
113	Knit Underwear Mills	0	0	0	0	1.00
114	Knit Fabric Mills	19	99	40	159	1.00
115	Knitting Mills- N.E.C.	0	0	0	0	1.00
116	Yarn Mills and Finishing Of Textiles-	0	3	1	5	1.00
117	Carpets and Rugs	16	2	7	25	1.00
118	Thread Mills	4	7	4	15	1.00
119	Coated Fabrics- Not Rubberized	2	6	3	10	1.00
120	Tire Cord and Fabric	0	0	0	0	1.00
121	Non woven Fabrics	0	0	0	0	1.00
122	Cordage and Twine	9	8	7	24	1.00
123	Textile Goods- N.E.C	6	4	2	13	1.00
124	Apparel Made From Purchased Material	18,746	402	6,620	25,768	1.00
125	Curtains and Draperies	1,298	240	575	2,113	1.00
126	House furnishings- N.E.C	6,106	1,016	2,519	9,640	1.00
127	Textile Bags	47	46	28	121	1.00
128	Canvas Products	236	120	136	492	1.00
129	Pleating and Stitching	497	155	227	878	1.00
130	Automotive and Apparel Trimmings	2,075	992	1,052	4,120	1.00
131	Schiffi Machine Embroideries	4	3	2	9	1.00
132	Fabricated Textile Products- N.E.C.	1,062	376	583	2,021	1.00
133	Logging Camps and Logging Contractor	0	74	25	100	1.00
134	Sawmills and Planing Mills- General	1	304	109	413	1.00
135	Hardwood Dimension and Flooring Mi	17	566	199	782	1.00
136	Special Product Sawmills- N.E.C	0	0	0	0	1.00
137	Millwork	26	1,285	446	1,757	1.00
138	Wood Kitchen Cabinets	27	1,221	385	1,633	1.00
139	Veneer and Plywood	0	2	1	3	1.00
140	Structural Wood Members- N.E.C	2	408	134	543	1.00
141	Wood Containers	1	101	26	128	1.00
142	Wood Pallets and Skids	8	627	166	801	1.00
143	Mobile Homes	0	2	1	2	1.00
144	Prefabricated Wood Buildings	1	1	0	2	1.00
145	Wood Preserving	2	106	35	142	1.00
146	Reconstituted Wood Products	1	84	32	117	1.00
147	Wood Products- N.E.C	1,667	462	806	2,936	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
148	Wood Household Furniture	1,598	17	461	2,075	1.00
149	Upholstered Household Furniture	4,389	102	1,284	5,775	1.00
150	Metal Household Furniture	1,106	95	340	1,540	1.00
151	Mattresses and Bedspings	4,011	251	1,221	5,483	1.00
152	Wood TV and Radio Cabinets	12	49	14	75	1.00
153	Household Furniture- N.E.C	135	65	54	254	1.00
154	Wood Office Furniture	179	20	57	256	1.00
155	Metal Office Furniture	1	34	10	45	1.00
156	Public Building Furniture	35	838	268	1,141	1.00
157	Wood Partitions and Fixtures	12	10	7	29	1.00
158	Metal Partitions and Fixtures	20	25	13	58	1.00
159	Blinds- Shades- and Drapery Hardware	1,599	167	715	2,482	1.00
160	Furniture and Fixtures- N.E.C	38	20	17	75	1.00
161	Pulp Mills	3	1	1	4	1.00
162	Paper Mills- Except Building Paper	3	1	1	4	1.00
163	Paperboard Mills	41	12	10	64	1.00
164	Paperboard Containers and Boxes	494	12,850	3,369	16,713	1.00
165	Paper Coated & Laminated Packaging	25	37	18	81	1.00
166	Paper Coated & Laminated N.E.C.	93	135	66	294	1.00
167	Bags- Plastic	30	48	24	102	1.00
168	Bags- Paper	0	1	0	2	1.00
169	Die-cut Paper and Board	2	13	5	20	1.00
170	Sanitary Paper Products	21	3	6	30	1.00
171	Envelopes	1	6	3	10	1.00
172	Stationery Products	9	30	14	52	1.00
173	Converted Paper Products- N.E.C	43	21	21	84	1.00
174	Newspapers	3,065	7,255	2,776	13,096	1.00
175	Periodicals	2,356	2,954	1,469	6,779	1.00
176	Book Publishing	5,484	374	1,855	7,713	1.00
177	Book Printing	5	302	104	411	1.00
178	Miscellaneous Publishing	676	2,664	959	4,299	1.00
179	Commercial Printing	301	16,238	4,720	21,259	1.00
180	Manifold Business Forms	3	710	476	1,188	1.00
181	Greeting Card Publishing	709	30	269	1,008	1.00
182	Blankbooks and Looseleaf Binder	229	489	244	962	1.00
183	Bookbinding & Related	2	109	79	190	1.00
184	Typesetting	0	94	30	124	1.00
185	Plate Making	1	213	89	303	1.00
186	Alkalies & Chlorine	0	0	0	0	1.00
187	Industrial Gases	151	492	254	897	1.00
188	Inorganic Pigments	10	34	18	62	1.00
189	Inorganic Chemicals Nec.	172	559	288	1,020	1.00
190	Cyclic Crudes- Intern. & Indus. Orga	1,166	3,788	1,954	6,908	1.00
191	Plastics Materials and Resins	99	377	145	621	1.00
192	Synthetic Rubber	0	3	1	5	1.00
193	Cellulosic Man-made Fibers	0	0	0	0	1.00
194	Organic Fibers- Non cellulosic	0	0	0	0	1.00
195	Drugs	71,367	15,567	13,201	100,135	1.00
196	Soap and Other Detergents	4,542	74	1,086	5,702	1.00
197	Polishes and Sanitation Goods	9,746	518	2,380	12,644	1.00
198	Surface Active Agents	2	12	5	19	1.00
199	Toilet Preparations	18,568	192	4,376	23,136	1.00
200	Paints and Allied Products	28	51	26	105	1.00
201	Gum and Wood Chemicals	0	0	0	0	1.00
202	Nitrogenous and Phosphatic Fertilizer	4	21	10	35	1.00
203	Fertilizers- Mixing Only	13	46	25	83	1.00
204	Agricultural Chemicals- N.E.C	167	62	67	296	1.00
205	Adhesives and Sealants	636	731	479	1,846	1.00
206	Explosives	0	18	7	25	1.00
207	Printing Ink	3	677	204	884	1.00
208	Carbon Black	0	1	0	1	1.00
209	Chemical Preparations- N.E.C	529	1,250	541	2,320	1.00
210	Petroleum Refining	13,717	3,383	5,125	22,225	1.00
211	Paving Mixtures and Blocks	6	647	244	896	1.00
212	Asphalt Felts and Coatings	11	1,054	423	1,488	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
213	Lubricating Oils and Greases	3,569	1,215	1,342	6,127	1.00
214	Petroleum and Coal Products- N.E.C.	0	0	0	0	1.00
215	Tires and Inner Tubes	2	1	1	3	1.00
216	Rubber and Plastics Footwear	0	0	0	0	1.00
217	Rubber and Plastics Hose and Belting	0	0	0	0	1.00
218	Gaskets- Packing and Sealing Device	5	4	3	11	1.00
219	Fabricated Rubber Products- N.E.C.	32	25	21	79	1.00
220	Miscellaneous Plastics Products	178	261	139	578	1.00
221	Leather Tanning and Finishing	3	510	138	651	1.00
222	Footwear Cut Stock	13	1	2	16	1.00
223	House Slippers	0	0	0	0	1.00
224	Shoes- Except Rubber	2,274	2	392	2,668	1.00
225	Leather Gloves and Mittens	0	0	0	0	1.00
226	Luggage	243	23	85	352	1.00
227	Women's Handbags and Purses	43	0	13	56	1.00
228	Personal Leather Goods	9	0	3	12	1.00
229	Leather Goods- N.E.C	387	11	151	549	1.00
230	Glass and Glass Products- Except Containers	376	1,208	565	2,150	1.00
231	Glass Containers	133	394	121	648	1.00
232	Cement- Hydraulic	0	2	1	3	1.00
233	Brick and Structural Clay Tile	0	1	1	2	1.00
234	Ceramic Wall and Floor Tile	0	13	4	17	1.00
235	Clay Refractories	0	0	0	0	1.00
236	Structural Clay Products- N.E.C	0	0	0	0	1.00
237	Vitreous Plumbing Fixtures	0	0	0	0	1.00
238	Vitreous China Food Utensils	0	0	0	0	1.00
239	Fine Earthenware Food Utensils	0	0	0	0	1.00
240	Porcelain Electrical Supplies	1	3	1	5	1.00
241	Pottery Products- N.E.C	1	0	1	2	1.00
242	Concrete Block and Brick	0	1	1	2	1.00
243	Concrete Products- N.E.C	0	6	2	8	1.00
244	Ready-mixed Concrete	0	19	7	25	1.00
245	Lime	1	6	3	9	1.00
246	Gypsum Products	0	6	2	8	1.00
247	Cut Stone and Stone Products	7	1	1	9	1.00
248	Abrasive Products	17	7	5	29	1.00
249	Asbestos Products	0	0	0	0	1.00
250	Minerals- Ground Or Treated	0	0	0	0	1.00
251	Mineral Wool	14	33	16	63	1.00
252	Nonclay Refractories	0	1	0	1	1.00
253	Nonmetallic Mineral Products- N.E.C	9	4	5	18	1.00
254	Blast Furnaces and Steel Mills	23	140	53	216	1.00
255	Electrometallurgical Products	0	0	0	1	1.00
256	Steel Wire and Related Products	15	43	19	78	1.00
257	Cold Finishing Of Steel Shapes	0	1	0	1	1.00
258	Steel Pipe and Tubes	0	12	4	16	1.00
259	Iron and Steel Foundries	0	4	2	6	1.00
260	Primary Copper	0	0	0	0	1.00
261	Primary Aluminum	0	0	0	0	1.00
262	Primary Nonferrous Metals- N.E.C.	0	1	0	1	1.00
263	Secondary Nonferrous Metals	0	13	4	17	1.00
264	Copper Rolling and Drawing	0	8	3	12	1.00
265	Aluminum Rolling and Drawing	23	49	22	95	1.00
266	Nonferrous Rolling and Drawing- N.E	1	8	3	11	1.00
267	Nonferrous Wire Drawing and Insulation	27	110	48	186	1.00
268	Aluminum Foundries	1	10	5	16	1.00
269	Brass- Bronze- and Copper Foundries	0	0	0	0	1.00
270	Nonferrous Castings- N.E.C.	1	6	3	10	1.00
271	Metal Heat Treating	1	15	7	22	1.00
272	Primary Metal Products- N.E.C	0	1	0	1	1.00
273	Metal Cans	0	171	38	209	1.00
274	Metal Barrels- Drums and Pails	0	83	20	103	1.00
275	Cutlery	0	0	0	0	1.00
276	Hand and Edge Tools- N.E.C.	292	273	258	823	1.00
277	Hand Saws and Saw Blades	7	8	10	25	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
278	Hardware- N.E.C.	71	163	82	315	1.00
279	Metal Sanitary Ware	3	6	3	11	1.00
280	Plumbing Fixture Fittings and Trim	25	30	18	72	1.00
281	Heating Equipment- Except Electric	11	9	6	26	1.00
282	Fabricated Structural Metal	3	31	15	49	1.00
283	Metal Doors- Sash- and Trim	55	110	57	223	1.00
284	Fabricated Plate Work (Boiler Shops)	3	16	7	25	1.00
285	Sheet Metal Work	38	116	52	207	1.00
286	Architectural Metal Work	3	16	9	28	1.00
287	Prefabricated Metal Buildings	3	14	7	25	1.00
288	Miscellaneous Metal Work	15	40	23	78	1.00
289	Screw Machine Products and Bolts- Et	28	157	64	250	1.00
290	Iron and Steel Forgings	2	20	7	29	1.00
291	Nonferrous Forgings	0	1	0	1	1.00
292	Automotive Stampings	6	291	92	388	1.00
293	Crowns and Closures	26	83	27	136	1.00
294	Metal Stampings- N.E.C.	308	264	174	747	1.00
295	Plating and Polishing	2	66	20	88	1.00
296	Metal Coating and Allied Services	0	107	33	140	1.00
297	Small Arms Ammunition	0	0	0	0	1.00
298	Ammunition- Except For Small Arms-	0	0	0	0	1.00
299	Small Arms	2	0	1	3	1.00
300	Other Ordnance and Accessories	0	0	0	0	1.00
301	Industrial and Fluid Valves	6	190	67	263	1.00
302	Steel Springs- Except Wire	2	17	6	25	1.00
303	Pipe- Valves- and Pipe Fittings	1	28	10	39	1.00
304	Miscellaneous Fabricated Wire Products	119	363	148	630	1.00
305	Metal Foil and Leaf	0	0	0	0	1.00
306	Fabricated Metal Products- N.E.C.	84	132	73	288	1.00
307	Steam Engines and Turbines	1	171	40	211	1.00
308	Internal Combustion Engines- N.E.C.	18	146	58	222	1.00
309	Farm Machinery and Equipment	0	35	18	53	1.00
310	Lawn and Garden Equipment	0	0	0	0	1.00
311	Construction Machinery and Equipment	3	33	14	50	1.00
312	Mining Machinery- Except Oil Field	5	7	4	16	1.00
313	Oil Field Machinery	43	170	73	286	1.00
314	Elevators and Moving Stairways	0	4	1	6	1.00
315	Conveyors and Conveying Equipment	3	23	8	34	1.00
316	Hoists- Cranes- and Monorails	3	8	4	14	1.00
317	Industrial Trucks and Tractors	0	62	17	80	1.00
318	Machine Tools- Metal Cutting Types	3	1	5	10	1.00
319	Machine Tools- Metal Forming Types	0	2	1	3	1.00
320	Industrial Patterns	0	0	0	0	1.00
321	Special Dies and Tools and Accessories	2	112	49	163	1.00
322	Power Driven Hand Tools	358	25	165	548	1.00
323	Rolling Mill Machinery	0	0	0	0	1.00
324	Welding Apparatus	29	32	21	82	1.00
325	Metalworking Machinery- N.E.C.	2	8	4	14	1.00
326	Textile Machinery	0	6	2	8	1.00
327	Woodworking Machinery	41	1	19	61	1.00
328	Paper Industries Machinery	0	25	6	31	1.00
329	Printing Trades Machinery	3	29	11	43	1.00
330	Food Products Machinery	7	106	43	156	1.00
331	Special Industry Machinery N.E.C.	3	84	38	124	1.00
332	Pumps and Compressors	8	38	15	61	1.00
333	Ball and Roller Bearings	0	0	0	0	1.00
334	Blowers and Fans	6	25	11	43	1.00
335	Packaging Machinery	2	128	36	165	1.00
336	Power Transmission Equipment	3	10	5	17	1.00
337	Industrial Furnaces and Ovens	1	2	1	3	1.00
338	General Industrial Machinery- N.E.C	2	6	4	12	1.00
339	Electronic Computers	1,284	287	376	1,947	1.00
340	Computer Storage Devices	5	7	4	16	1.00
341	Computer Terminals	0	0	0	0	1.00
342	Computer Peripheral Equipment-	609	752	432	1,794	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
343	Calculating and Accounting Machines	34	24	20	78	1.00
344	Typewriters and Office Machines N.E	151	111	123	385	1.00
345	Automatic Merchandising Machine	0	47	16	63	1.00
346	Commercial Laundry Equipment	0	56	13	69	1.00
347	Refrigeration and Heating Equipment	1,469	3,217	1,582	6,268	1.00
348	Measuring and Dispensing Pumps	0	0	0	0	1.00
349	Service Industry Machines- N.E.C.	18	24	192	234	1.00
350	Carburetors- Pistons- Rings- Valves	8	18	8	35	1.00
351	Fluid Power Cylinders & Actuators	1	5	2	9	1.00
352	Fluid Power Pumps & Motors	0	0	0	0	1.00
353	Scales and Balances	52	5	22	79	1.00
354	Industrial Machines N.E.C.	6	15	8	28	1.00
355	Transformers	4	4	2	10	1.00
356	Switchgear and Switchboard Apparatus	42	117	57	216	1.00
357	Motors and Generators	25	177	70	272	1.00
358	Carbon and Graphite Products	0	0	0	0	1.00
359	Relays & Industrial Controls	6	200	65	271	1.00
360	Electrical Industrial Apparatus- N.E.C	1	5	2	9	1.00
361	Household Cooking Equipment	2	0	0	2	1.00
362	Household Refrigerators and Freezers	0	0	0	0	1.00
363	Household Laundry Equipment	0	0	0	0	1.00
364	Electric House wares and Fans	92	11	28	132	1.00
365	Household Vacuum Cleaners	5	0	2	7	1.00
366	Household Appliances- N.E.C.	1	0	1	2	1.00
367	Electric Lamps	0	0	0	1	1.00
368	Wiring Devices	16	28	15	59	1.00
369	Lighting Fixtures and Equipment	20	41	20	82	1.00
370	Radio and TV Receiving Sets	5,270	241	1,246	6,756	1.00
371	Phonograph Records and Tape	1,140	149	297	1,586	1.00
372	Telephone and Telegraph Apparatus	1,397	3,180	1,269	5,847	1.00
373	Radio and TV Communication Equipment	2,077	629	701	3,406	1.00
374	Communications Equipment N.E.C.	154	47	52	253	1.00
375	Electron Tubes	0	35	9	44	1.00
376	Printed Circuit Boards	213	671	249	1,134	1.00
377	Semiconductors and Related Devices	233	8,501	2,579	11,314	1.00
378	Electronic Components- N.E.C.	1,361	4,282	1,589	7,232	1.00
379	Storage Batteries	2,454	439	766	3,659	1.00
380	Primary Batteries- Dry and Wet	0	0	0	0	1.00
381	Engine Electrical Equipment	820	885	510	2,215	1.00
382	Magnetic & Optical Recording Media	20	45	18	83	1.00
383	Electrical Equipment- N.E.C.	727	14	201	942	1.00
384	Motor Vehicles	39,334	1,229	12,566	53,129	1.00
385	Truck and Bus Bodies	463	71	166	700	1.00
386	Motor Vehicle Parts and Accessories	1,364	5,305	2,105	8,774	1.00
387	Truck Trailers	28	14	13	56	1.00
388	Motor Homes	19	2	38	58	1.00
389	Aircraft	546	2,066	868	3,480	1.00
390	Aircraft and Missile Engines and Part	6	230	63	299	1.00
391	Aircraft and Missile Equipment-	29	99	41	169	1.00
392	Ship Building and Repairing	0	0	0	0	1.00
393	Boat Building and Repairing	17	1	6	24	1.00
394	Railroad Equipment	83	180	83	346	1.00
395	Motorcycles- Bicycles- and Parts	2	0	1	4	1.00
396	Complete Guided Missiles	0	0	0	0	1.00
397	Travel Trailers and Camper	4	1	8	12	1.00
398	Tanks and Tank Components	0	0	0	0	1.00
399	Transportation Equipment- N.E.C	28	13	16	56	1.00
400	Search & Navigation Equipment	265	126	108	500	1.00
401	Laboratory Apparatus & Furniture	3	4	2	9	1.00
402	Automatic Temperature Controls	0	12	4	16	1.00
403	Mechanical Measuring Devices	71	158	81	309	1.00
404	Instruments To Measure Electricity	9	9	5	22	1.00
405	Analytical Instruments	393	109	94	596	1.00
406	Optical Instruments & Lenses	151	42	36	229	1.00
407	Surgical and Medical Instrument	438	1,661	820	2,919	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
408	Surgical Appliances and Supplies	7,409	2,165	2,538	12,112	1.00
409	Dental Equipment and Supplies	2	143	40	185	1.00
410	X-Ray Apparatus	0	7	2	9	1.00
411	Electromedical Apparatus	14	178	50	242	1.00
412	Ophthalmic Goods	5,294	22	959	6,275	1.00
413	Photographic Equipment and Supplies	623	68	456	1,147	1.00
414	Watches- Clocks- and Parts	10	0	4	15	1.00
415	Jewelry- Precious Metal	284	16	118	418	1.00
416	Silverware and Plated Ware	9	3	4	16	1.00
417	Jewelers Materials and Lapidary Work	0	0	0	0	1.00
418	Musical Instruments	17	1	4	23	1.00
419	Dolls	2	0	1	3	1.00
420	Games- Toys- and Children's Vehicles	33	2	11	46	1.00
421	Sporting and Athletic Goods- N.E.C.	461	26	166	653	1.00
422	Pens and Mechanical Pencils	1	0	0	2	1.00
423	Lead Pencils and Art Goods	0	0	0	1	1.00
424	Marking Devices	1	11	5	17	1.00
425	Carbon Paper and Inked Ribbons	3	5	7	14	1.00
426	Costume Jewelry	16	0	7	23	1.00
427	Fasteners- Buttons- Needles- Pins	2	1	1	4	1.00
428	Brooms and Brushes	22	14	12	48	1.00
429	Signs and Advertising Displays	22	1,676	455	2,153	1.00
430	Burial Caskets and Vaults	0	60	4	64	1.00
431	Hard Surface Floor Coverings	0	0	0	0	1.00
432	Manufacturing Industries- N.E.C.	313	120	155	589	1.00
433	Railroads and Related Services	2,300	1,952	1,286	5,537	1.00
434	Local- Interurban Passenger Transit	16,517	1,175	4,418	22,110	1.00
435	Motor Freight Transport and Warehouse	49,270	43,639	24,019	116,927	1.00
436	Water Transportation	1,097	254	403	1,755	1.00
437	Air Transportation	25,375	6,513	10,576	42,464	1.00
438	Pipe Lines- Except Natural Gas	1,254	897	598	2,748	1.00
439	Arrangement Of Passenger Transportation	2,208	2,731	1,885	6,823	1.00
440	Transportation Services	1,061	3,074	1,135	5,270	1.00
441	Communications- Except Radio and	114,563	54,052	38,080	206,695	1.00
442	Radio and TV Broadcasting	1,099	13,572	4,039	18,710	1.00
443	Electric Services	155,178	20,900	38,580	214,657	1.00
444	Gas Production and Distribution	45,734	9,954	10,753	66,441	1.00
445	Water Supply and Sewerage Systems	2,715	409	735	3,859	1.00
446	Sanitary Services and Steam Supply	5,908	8,571	3,404	17,883	1.00
447	Wholesale Trade	306,342	82,834	98,593	487,769	1.00
448	Building Materials & Gardening	40,272	1,244	13,969	55,485	1.00
449	General Merchandise Stores	100,496	660	29,853	131,009	1.00
450	Food Stores	171,014	699	31,527	203,241	1.00
451	Automotive Dealers & Service Station	166,641	4,833	45,980	217,453	1.00
452	Apparel & Accessory Stores	58,301	538	15,683	74,522	1.00
453	Furniture & Home Furnishings Stores	55,701	744	16,180	72,624	1.00
454	Eating & Drinking	211,258	8,491	73,308	293,057	1.00
455	Miscellaneous Retail	205,116	2,742	51,096	258,955	1.00
456	Banking	227,525	52,279	68,530	348,334	1.00
457	Credit Agencies	27,428	33,200	18,081	78,709	1.00
458	Security and Commodity Brokers	11,291	39,700	18,943	69,934	1.00
459	Insurance Carriers	111,467	6,453	50,224	168,144	1.00
460	Insurance Agents and Brokers	0	24,273	10,338	34,611	1.00
461	Owner-occupied Dwellings	409,340	0	152,125	561,465	1.00
462	Real Estate	415,279	126,482	80,567	622,329	1.00
463	Hotels and Lodging Places	50,096	13,978	21,065	85,139	1.00
464	Laundry- Cleaning and Shoe Repair	22,938	4,399	6,317	33,653	1.00
465	Portrait and Photographic Studios	5,154	164	1,567	6,884	1.00
466	Beauty and Barber Shops	28,154	2,647	6,757	37,558	1.00
467	Funeral Service and Crematories	34,329	0	2,156	36,486	1.00
468	Miscellaneous Personal Services	26,226	832	7,974	35,032	1.00
469	Advertising	165	19,156	5,177	24,498	1.00
470	Other Business Services	4,868	60,017	17,880	82,765	1.00
471	Photofinishing- Commercial Photography	5,044	9,768	4,640	19,452	1.00
472	Services To Buildings	3,588	17,122	5,640	26,350	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
473	Equipment Rental and Leasing	3,652	7,057	3,702	14,411	1.00
474	Personnel Supply Services	1,623	30,677	10,563	42,863	1.00
475	Computer and Data Processing Service	3,818	74,167	26,258	104,243	1.00
476	Detective and Protective Services	3,360	5,890	3,117	12,367	1.00
477	Automobile Rental and Leasing	6,738	7,840	4,264	18,842	1.00
478	Automobile Parking and Car Wash	10,121	733	3,451	14,305	1.00
479	Automobile Repair and Services	54,986	9,183	19,067	83,236	1.00
480	Electrical Repair Service	5,901	2,980	3,208	12,089	1.00
481	Watch- Clock- Jewelry and Furniture	3,698	14	980	4,691	1.00
482	Miscellaneous Repair Shops	4,396	4,491	2,904	11,790	1.00
483	Motion Pictures	14,825	14,509	9,432	38,766	1.00
484	Theatrical Producers- Bands Etc.	5,745	6,045	3,812	15,601	1.00
485	Bowling Alleys and Pool Halls	2,052	2	816	2,870	1.00
486	Commercial Sports Except Racing	4,432	3,277	3,172	10,881	1.00
487	Racing and Track Operation	3,878	803	1,898	6,579	1.00
488	Amusement and Recreation Services-	33,001	3	12,618	45,622	1.00
489	Membership Sports and Recreation Cl	26,638	688	4,422	31,748	1.00
490	Doctors and Dentists	283,043	0	71,757	354,800	1.00
491	Nursing and Protective Care	83,646	0	7,323	90,968	1.00
492	Hospitals	142,681	79	52,169	194,928	1.00
493	Other Medical and Health Services	74,233	4,446	21,909	100,588	1.00
494	Legal Services	52,598	26,100	29,877	108,575	1.00
495	Elementary and Secondary Schools	7,715	0	5,056	12,771	1.00
496	Colleges- Universities- Schools	18,024	291	6,101	24,417	1.00
497	Other Educational Services	33,843	599	6,154	40,597	1.00
498	Job Trainings & Related Services	3,078	354	1,356	4,788	1.00
499	Child Day Care Services	25,968	0	9,840	35,807	1.00
500	Social Services- N.E.C.	19,550	20	7,140	26,711	1.00
501	Residential Care	7,356	0	2,802	10,158	1.00
502	Other Nonprofit Organizations	7,477	252	2,344	10,073	1.00
503	Business Associations	5,887	2,766	3,086	11,738	1.00
504	Labor and Civic Organizations	16,413	37	4,780	21,230	1.00
505	Religious Organizations	18,025	0	6,299	24,324	1.00
506	Engineering- Architectural Services	0	12,651	3,721	16,371	1.00
507	Accounting- Auditing and Bookkeeping	1,191	37,856	12,000	51,047	1.00
508	Management and Consulting Services	20	36,036	14,794	50,850	1.00
509	Research- Development & Testing Ser	0	7,345	2,445	9,790	1.00
510	Local Government Passenger Transit	3,804	268	1,017	5,088	1.00
511	State and Local Electric Utilities	16,409	2,197	4,076	22,683	1.00
512	Other State and Local Govt Enterprise	53,759	7,837	15,001	76,596	1.00
513	U.S. Postal Service	9,440	17,908	8,487	35,835	1.00
514	Federal Electric Utilities	0	0	0	0	1.00
515	Other Federal Government Enterprise	13,819	2,319	4,376	20,514	1.00
516	Noncomparable Imports	0	0	0	0	1.00
517	Scrap	0	0	0	0	1.00
518	Used and Secondhand Goods	0	0	0	0	1.00
519	Federal Government - Military	0	0	0	0	1.00
520	Federal Government - Non-Military	0	0	0	0	1.00
521	Commodity Credit Corporation	0	0	0	0	1.00
522	State & Local Government - Education	0	0	78,724	78,724	1.00
523	State & Local Government - Non-Educ	0	0	82,688	82,688	1.00
524	Rest Of The World Industry	0	0	0	0	1.00
525	Domestic Services	11,717	0	4,243	15,960	1.00
526	Dummy	0	0	0	0	1.00
527	Dummy	0	0	0	0	1.00
528	Inventory Valuation Adjustment	0	0	0	0	1.00
11001	Federal Government NonDefense	813	0	0	813	1.00
12001	State/Local Govt NonEducation	193,368	0	0	193,368	1.00
14001	Capital	8,446	0	0	8,446	1.00
14002	Inventory Additions/Deletions	13	0	0	13	1.00
25001	Foreign Trade	251,085	0	0	251,085	1.00
28001	Domestic Trade	2,297,347	0	0	2,297,347	1.00
	Total	7,448,587	1,333,548	1,796,332	10,578,468	

Note: *1999 Dollars - if results are deflated and aggregated, then deflators displayed are set to 1.0 (results have been deflated)

DFW 1999.iap

IMPACT NAME: Baylor-Grapevine Employment 30k-50k MULTIPLIER: Type SAM

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
1	Dairy Farm Products	86	829	247	1,162	1.00
2	Poultry and Eggs	500	547	259	1,306	1.00
3	Ranch Fed Cattle	55	2,849	706	3,610	1.00
4	Range Fed Cattle	27	1,359	337	1,722	1.00
5	Cattle Feedlots	7	471	116	594	1.00
6	Sheep- Lambs and Goats	0	16	4	20	1.00
7	Hogs- Pigs and Swine	1	70	17	88	1.00
8	Other Meat Animal Products	0	1	0	1	1.00
9	Miscellaneous Livestock	1,241	157	355	1,753	1.00
10	Cotton	2	3	1	6	1.00
11	Food Grains	6	8	4	17	1.00
12	Feed Grains	41	59	27	128	1.00
13	Hay and Pasture	58	84	39	181	1.00
14	Grass Seeds	0	0	0	0	1.00
15	Tobacco	0	0	0	0	1.00
16	Fruits	208	1	48	257	1.00
17	Tree Nuts	201	12	48	261	1.00
18	Vegetables	190	24	51	265	1.00
19	Sugar Crops	0	0	0	0	1.00
20	Miscellaneous Crops	0	0	0	0	1.00
21	Oil Bearing Crops	11	59	17	87	1.00
22	Forest Products	3	1	1	6	1.00
23	Greenhouse and Nursery Products	5,026	1,054	1,680	7,760	1.00
24	Forestry Products	15	1	4	20	1.00
25	Commercial Fishing	5	10	4	19	1.00
26	Agricultural- Forestry- Fishery Service	120	38	40	198	1.00
27	Landscape and Horticultural Services	0	10,214	3,956	14,170	1.00
28	Iron Ores	0	0	0	0	1.00
29	Copper Ores	0	0	0	0	1.00
30	Lead and Zinc Ores	0	0	0	0	1.00
31	Gold Ores	0	7	3	10	1.00
32	Silver Ores	0	0	0	0	1.00
33	Ferroalloy Ores- Except Vanadium	0	0	0	0	1.00
34	Metal Mining Services	0	0	0	0	1.00
35	Uranium-radium-vanadium Ores	0	3	1	4	1.00
36	Metal Ores- Not Elsewhere Classified	0	0	0	0	1.00
37	Coal Mining	1	56	18	76	1.00
38	Natural Gas & Crude Petroleum	31,834	25,742	17,587	75,163	1.00
39	Natural Gas Liquids	7,420	6,000	4,099	17,519	1.00
40	Dimension Stone	0	7	3	10	1.00
41	Sand and Gravel	0	15	5	20	1.00
42	Clay- Ceramic- Refractory Minerals-	0	0	0	0	1.00
43	Potash- Soda- and Borate Minerals	0	0	0	0	1.00
44	Phosphate Rock	0	0	0	0	1.00
45	Chemical- Fertilizer Mineral Mining-	0	3	1	5	1.00
46	Nonmetallic Minerals (Except Fuels)	0	0	0	0	1.00
47	Misc. Nonmetallic Minerals- N.E.C.	0	0	0	0	1.00
48	New Residential Structures	0	0	0	0	1.00
49	New Industrial and Commercial Build	0	0	0	0	1.00
50	New Utility Structures	0	0	0	0	1.00
51	New Highways and Streets	0	0	0	0	1.00
52	New Farm Structures	0	0	0	0	1.00
53	New Mineral Extraction Facilities	0	0	0	0	1.00
54	New Government Facilities	0	0	0	0	1.00
55	Maintenance and Repair- Residential	0	68,913	18,387	87,299	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
56	Maintenance and Repair Other Facility	0	58,886	37,861	96,748	1.00
57	Maintenance and Repair Oil and Gas	0	1,234	377	1,611	1.00
58	Meat Packing Plants	13,947	2,906	4,106	20,959	1.00
59	Sausages and Other Prepared Meats	30,858	4,906	8,559	44,324	1.00
60	Poultry Processing	5,906	863	1,571	8,340	1.00
61	Creamery Butter	13	6	5	24	1.00
62	Cheese- Natural and Processed	197	52	61	310	1.00
63	Condensed and Evaporated Milk	0	0	0	0	1.00
64	Ice Cream and Frozen Desserts	3,366	1,565	1,357	6,288	1.00
65	Fluid Milk	20,537	1,831	6,058	28,426	1.00
66	Canned Specialties	181	14	47	243	1.00
67	Canned Fruits and Vegetables	107	13	31	150	1.00
68	Dehydrated Food Products	43	7	12	63	1.00
69	Pickles- Sauces- and Salad Dressings	742	148	214	1,105	1.00
70	Frozen Fruits- Juices and Vegetables	3	1	1	4	1.00
71	Frozen Specialties	639	86	172	897	1.00
72	Flour and Other Grain Mill Products	90	147	57	294	1.00
73	Cereal Preparations	0	0	0	0	1.00
74	Rice Milling	0	0	0	0	1.00
75	Blended and Prepared Flour	679	62	175	916	1.00
76	Wet Corn Milling	0	0	0	0	1.00
77	Dog- Cat- and Other Pet Food	82	1	19	103	1.00
78	Prepared Feeds- N.E.C	122	35	39	196	1.00
79	Bread- Cake- and Related Products	17,880	6,762	6,121	30,763	1.00
80	Cookies and Crackers	3,041	198	754	3,993	1.00
81	Sugar	638	278	226	1,143	1.00
82	Confectionery Products	1,039	67	255	1,361	1.00
83	Chocolate and Cocoa Products	0	0	0	0	1.00
84	Chewing Gum	0	0	0	0	1.00
85	Salted and Roasted Nuts & Seeds	79	8	20	108	1.00
86	Cottonseed Oil Mills	1	80	20	101	1.00
87	Soybean Oil Mills	0	0	0	0	1.00
88	Vegetable Oil Mills- N.E.C	28	25	12	65	1.00
89	Animal and Marine Fats and Oils	19	193	53	265	1.00
90	Shortening and Cooking Oils	4,233	2,321	1,590	8,145	1.00
91	Malt Beverages	1,742	390	499	2,632	1.00
92	Malt	0	0	0	0	1.00
93	Wines- Brandy- and Brandy Spirits	0	0	0	0	1.00
94	Distilled Liquor- Except Brandy	0	0	0	0	1.00
95	Bottled and Canned Soft Drinks & Water	3,081	248	762	4,091	1.00
96	Flavoring Extracts and Syrups- N.E.C	1,602	267	444	2,313	1.00
97	Canned and Cured Sea Foods	2	0	1	3	1.00
98	Prepared Fresh Or Frozen Fish Or Se	0	0	0	0	1.00
99	Roasted Coffee	435	186	159	781	1.00
100	Potato Chips & Similar Snacks	13,392	875	3,232	17,498	1.00
101	Manufactured Ice	584	0	131	716	1.00
102	Macaroni and Spaghetti	384	17	93	494	1.00
103	Food Preparations- N.E.C	21,469	726	5,233	27,428	1.00
104	Cigarettes	0	0	0	0	1.00
105	Cigars	0	0	0	0	1.00
106	Chewing and Smoking Tobacco	0	0	0	0	1.00
107	Tobacco Stemming and Redrying	0	0	0	0	1.00
108	Broadwoven Fabric Mills and Finishing	55	94	43	191	1.00
109	Narrow Fabric Mills	5	12	4	22	1.00
110	Women's Hosiery- Except Socks	0	0	0	0	1.00
111	Hosiery- N.E.C	23	0	5	28	1.00
112	Knit Outerwear Mills	5	0	1	6	1.00
113	Knit Underwear Mills	0	0	0	0	1.00
114	Knit Fabric Mills	31	162	46	239	1.00
115	Knitting Mills- N.E.C.	0	0	0	0	1.00
116	Yarn Mills and Finishing Of Textiles-	1	5	2	7	1.00
117	Carpets and Rugs	22	2	8	32	1.00
118	Thread Mills	6	9	4	20	1.00
119	Coated Fabrics- Not Rubberized	3	8	3	13	1.00
120	Tire Cord and Fabric	0	0	0	0	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
121	Non woven Fabrics	0	0	0	0	1.00
122	Cordage and Twine	12	10	8	31	1.00
123	Textile Goods- N.E.C	6	5	3	14	1.00
124	Apparel Made From Purchased Material	30,902	587	7,543	39,031	1.00
125	Curtains and Draperies	1,768	315	655	2,738	1.00
126	House furnishings- N.E.C	8,324	1,151	2,870	12,344	1.00
127	Textile Bags	73	51	32	156	1.00
128	Canvas Products	351	139	154	644	1.00
129	Pleating and Stitching	677	249	259	1,184	1.00
130	Automotive and Apparel Trimmings	2,830	1,522	1,199	5,551	1.00
131	Schiffi Machine Embroideries	5	4	3	12	1.00
132	Fabricated Textile Products- N.E.C.	1,478	498	663	2,639	1.00
133	Logging Camps and Logging Contractor	0	87	29	116	1.00
134	Sawmills and Planing Mills- General	1	350	124	474	1.00
135	Hardwood Dimension and Flooring Mi	22	698	226	945	1.00
136	Special Product Sawmills- N.E.C	0	0	0	0	1.00
137	Millwork	34	1,457	507	1,999	1.00
138	Wood Kitchen Cabinets	35	1,412	438	1,885	1.00
139	Veneer and Plywood	0	3	1	4	1.00
140	Structural Wood Members- N.E.C	2	466	152	620	1.00
141	Wood Containers	1	109	30	140	1.00
142	Wood Pallets and Skids	9	680	189	878	1.00
143	Mobile Homes	0	2	1	3	1.00
144	Prefabricated Wood Buildings	1	1	0	2	1.00
145	Wood Preserving	2	121	40	163	1.00
146	Reconstituted Wood Products	2	101	36	139	1.00
147	Wood Products- N.E.C	2,204	544	918	3,666	1.00
148	Wood Household Furniture	2,071	18	525	2,615	1.00
149	Upholstered Household Furniture	5,692	132	1,463	7,287	1.00
150	Metal Household Furniture	1,435	105	387	1,926	1.00
151	Mattresses and Bedsprings	5,203	328	1,391	6,922	1.00
152	Wood TV and Radio Cabinets	14	52	16	82	1.00
153	Household Furniture- N.E.C	175	69	62	306	1.00
154	Wood Office Furniture	232	25	65	322	1.00
155	Metal Office Furniture	1	43	11	55	1.00
156	Public Building Furniture	44	1,176	306	1,525	1.00
157	Wood Partitions and Fixtures	16	12	8	36	1.00
158	Metal Partitions and Fixtures	26	28	15	69	1.00
159	Blinds- Shades- and Drapery Hardware	2,209	231	815	3,255	1.00
160	Furniture and Fixtures- N.E.C	45	26	20	91	1.00
161	Pulp Mills	2	1	1	4	1.00
162	Paper Mills- Except Building Paper	2	1	1	4	1.00
163	Paperboard Mills	30	14	12	55	1.00
164	Paperboard Containers and Boxes	831	13,233	3,835	17,899	1.00
165	Paper Coated & Laminated Packaging	33	41	21	95	1.00
166	Paper Coated & Laminated N.E.C.	120	150	75	345	1.00
167	Bags- Plastic	46	51	28	124	1.00
168	Bags- Paper	1	1	0	2	1.00
169	Die-cut Paper and Board	3	14	6	23	1.00
170	Sanitary Paper Products	21	4	7	31	1.00
171	Envelopes	2	7	3	12	1.00
172	Stationery Products	15	34	16	65	1.00
173	Converted Paper Products- N.E.C	63	23	23	110	1.00
174	Newspapers	3,643	8,093	3,162	14,897	1.00
175	Periodicals	2,776	3,263	1,672	7,710	1.00
176	Book Publishing	6,417	437	2,110	8,963	1.00
177	Book Printing	6	339	118	463	1.00
178	Miscellaneous Publishing	867	2,975	1,092	4,934	1.00
179	Commercial Printing	484	18,066	5,371	23,920	1.00
180	Manifold Business Forms	4	805	538	1,347	1.00
181	Greeting Card Publishing	1,211	40	306	1,557	1.00
182	Blankbooks and Looseleaf Binder	388	572	278	1,239	1.00
183	Bookbinding & Related	2	126	89	217	1.00
184	Typesetting	0	108	34	142	1.00
185	Plate Making	2	238	101	340	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
186	Alkalies & Chlorine	0	0	0	0	1.00
187	Industrial Gases	137	543	288	967	1.00
188	Inorganic Pigments	9	38	20	67	1.00
189	Inorganic Chemicals Nec.	155	617	327	1,100	1.00
190	Cyclic Crudes- Interm. & Indus. Orga	1,052	4,183	2,216	7,450	1.00
191	Plastics Materials and Resins	67	405	165	637	1.00
192	Synthetic Rubber	0	4	2	6	1.00
193	Cellulosic Man-made Fibers	0	0	0	0	1.00
194	Organic Fibers- Non cellulosic	0	0	0	0	1.00
195	Drugs	38,013	13,427	15,027	66,468	1.00
196	Soap and Other Detergents	4,736	78	1,237	6,051	1.00
197	Polishes and Sanitation Goods	10,098	525	2,712	13,335	1.00
198	Surface Active Agents	1	14	6	21	1.00
199	Toilet Preparations	24,318	182	4,989	29,489	1.00
200	Paints and Allied Products	30	57	30	117	1.00
201	Gum and Wood Chemicals	0	0	0	0	1.00
202	Nitrogenous and Phosphatic Fertilizer	4	25	12	40	1.00
203	Fertilizers- Mixing Only	13	57	28	98	1.00
204	Agricultural Chemicals- N.E.C	147	67	76	290	1.00
205	Adhesives and Sealants	1,070	833	545	2,448	1.00
206	Explosives	0	19	8	27	1.00
207	Printing Ink	3	768	232	1,003	1.00
208	Carbon Black	0	1	0	1	1.00
209	Chemical Preparations- N.E.C	622	1,290	615	2,527	1.00
210	Petroleum Refining	15,332	3,420	5,826	24,578	1.00
211	Paving Mixtures and Blocks	7	714	276	997	1.00
212	Asphalt Felts and Coatings	16	1,149	480	1,645	1.00
213	Lubricating Oils and Greases	4,093	1,260	1,527	6,881	1.00
214	Petroleum and Coal Products- N.E.C.	0	0	0	0	1.00
215	Tires and Inner Tubes	2	1	1	4	1.00
216	Rubber and Plastics Footwear	0	0	0	0	1.00
217	Rubber and Plastics Hose and Belting	0	0	0	0	1.00
218	Gaskets- Packing and Sealing Device	6	4	3	13	1.00
219	Fabricated Rubber Products- N.E.C.	39	29	24	92	1.00
220	Miscellaneous Plastics Products	211	290	158	660	1.00
221	Leather Tanning and Finishing	4	602	157	763	1.00
222	Footwear Cut Stock	11	1	3	15	1.00
223	House Slippers	0	0	0	0	1.00
224	Shoes- Except Rubber	1,962	2	447	2,412	1.00
225	Leather Gloves and Mittens	0	0	0	0	1.00
226	Luggage	395	29	97	521	1.00
227	Women's Handbags and Purses	71	0	15	86	1.00
228	Personal Leather Goods	15	0	3	18	1.00
229	Leather Goods- N.E.C	570	14	172	755	1.00
230	Glass and Glass Products- Except Containers	469	1,385	642	2,496	1.00
231	Glass Containers	118	396	138	652	1.00
232	Cement- Hydraulic	0	3	1	4	1.00
233	Brick and Structural Clay Tile	0	2	1	2	1.00
234	Ceramic Wall and Floor Tile	0	14	5	19	1.00
235	Clay Refractories	0	0	0	0	1.00
236	Structural Clay Products- N.E.C	0	0	0	0	1.00
237	Vitreous Plumbing Fixtures	0	0	0	0	1.00
238	Vitreous China Food Utensils	0	0	0	0	1.00
239	Fine Earthenware Food Utensils	0	0	0	0	1.00
240	Porcelain Electrical Supplies	1	4	2	6	1.00
241	Pottery Products- N.E.C	2	0	1	3	1.00
242	Concrete Block and Brick	0	2	1	2	1.00
243	Concrete Products- N.E.C	0	6	2	8	1.00
244	Ready-mixed Concrete	0	21	7	29	1.00
245	Lime	0	7	3	10	1.00
246	Gypsum Products	1	6	2	9	1.00
247	Cut Stone and Stone Products	2	1	1	4	1.00
248	Abrasive Products	13	7	6	26	1.00
249	Asbestos Products	0	0	0	0	1.00
250	Minerals- Ground Or Treated	0	0	0	0	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
251	Mineral Wool	18	41	18	77	1.00
252	Nonclay Refractories	0	1	0	1	1.00
253	Nonmetallic Mineral Products- N.E.C	12	5	5	22	1.00
254	Blast Furnaces and Steel Mills	18	155	61	234	1.00
255	Electrometallurgical Products	0	1	0	1	1.00
256	Steel Wire and Related Products	17	51	22	89	1.00
257	Cold Finishing Of Steel Shapes	0	1	0	2	1.00
258	Steel Pipe and Tubes	0	13	5	18	1.00
259	Iron and Steel Foundries	0	4	2	6	1.00
260	Primary Copper	0	0	0	0	1.00
261	Primary Aluminum	0	0	0	0	1.00
262	Primary Nonferrous Metals- N.E.C.	0	1	0	1	1.00
263	Secondary Nonferrous Metals	0	15	4	19	1.00
264	Copper Rolling and Drawing	0	10	3	13	1.00
265	Aluminum Rolling and Drawing	39	54	25	119	1.00
266	Nonferrous Rolling and Drawing- N.E	1	9	3	12	1.00
267	Nonferrous Wire Drawing and Insulation	32	120	55	207	1.00
268	Aluminum Foundries	1	12	6	18	1.00
269	Brass- Bronze- and Copper Foundries	0	0	0	0	1.00
270	Nonferrous Castings- N.E.C.	1	7	4	11	1.00
271	Metal Heat Treating	1	18	8	26	1.00
272	Primary Metal Products- N.E.C	0	1	0	2	1.00
273	Metal Cans	0	173	43	216	1.00
274	Metal Barrels- Drums and Pails	0	84	23	107	1.00
275	Cutlery	0	0	0	0	1.00
276	Hand and Edge Tools- N.E.C.	398	315	293	1,006	1.00
277	Hand Saws and Saw Blades	9	10	11	30	1.00
278	Hardware- N.E.C.	89	196	93	378	1.00
279	Metal Sanitary Ware	4	6	3	13	1.00
280	Plumbing Fixture Fittings and Trim	29	34	20	83	1.00
281	Heating Equipment- Except Electric	11	10	7	28	1.00
282	Fabricated Structural Metal	5	32	17	54	1.00
283	Metal Doors- Sash- and Trim	74	128	65	267	1.00
284	Fabricated Plate Work (Boiler Shops)	3	17	8	28	1.00
285	Sheet Metal Work	45	137	59	241	1.00
286	Architectural Metal Work	4	17	10	30	1.00
287	Prefabricated Metal Buildings	4	16	8	28	1.00
288	Miscellaneous Metal Work	19	42	26	86	1.00
289	Screw Machine Products and Bolts- Et	38	184	73	296	1.00
290	Iron and Steel Forgings	2	22	8	32	1.00
291	Nonferrous Forgings	0	1	0	1	1.00
292	Automotive Stampings	5	400	104	510	1.00
293	Crowns and Closures	23	74	31	127	1.00
294	Metal Stampings- N.E.C.	276	299	198	773	1.00
295	Plating and Polishing	2	73	23	98	1.00
296	Metal Coating and Allied Services	0	116	37	154	1.00
297	Small Arms Ammunition	0	0	0	0	1.00
298	Ammunition- Except For Small Arms-	0	0	0	0	1.00
299	Small Arms	2	0	1	3	1.00
300	Other Ordnance and Accessories	0	0	0	0	1.00
301	Industrial and Fluid Valves	6	203	76	285	1.00
302	Steel Springs- Except Wire	3	21	7	30	1.00
303	Pipe- Valves- and Pipe Fittings	1	30	11	43	1.00
304	Miscellaneous Fabricated Wire Products	118	430	168	716	1.00
305	Metal Foil and Leaf	0	0	0	0	1.00
306	Fabricated Metal Products- N.E.C.	98	150	83	331	1.00
307	Steam Engines and Turbines	2	137	45	184	1.00
308	Internal Combustion Engines- N.E.C.	28	158	66	252	1.00
309	Farm Machinery and Equipment	1	37	20	57	1.00
310	Lawn and Garden Equipment	0	0	0	0	1.00
311	Construction Machinery and Equipment	4	36	16	56	1.00
312	Mining Machinery- Except Oil Field	7	7	5	19	1.00
313	Oil Field Machinery	52	186	83	321	1.00
314	Elevators and Moving Stairways	0	4	2	6	1.00
315	Conveyors and Conveying Equipment	3	25	9	38	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
316	Hoists- Cranes- and Monorails	4	8	4	16	1.00
317	Industrial Trucks and Tractors	1	68	20	88	1.00
318	Machine Tools- Metal Cutting Types	5	1	6	12	1.00
319	Machine Tools- Metal Forming Types	0	3	1	4	1.00
320	Industrial Patterns	0	0	0	0	1.00
321	Special Dies and Tools and Accessories	3	124	55	183	1.00
322	Power Driven Hand Tools	494	33	188	714	1.00
323	Rolling Mill Machinery	0	0	0	0	1.00
324	Welding Apparatus	35	34	24	93	1.00
325	Metalworking Machinery- N.E.C.	2	9	4	16	1.00
326	Textile Machinery	0	8	2	10	1.00
327	Woodworking Machinery	56	1	22	79	1.00
328	Paper Industries Machinery	0	26	7	34	1.00
329	Printing Trades Machinery	5	33	13	51	1.00
330	Food Products Machinery	6	129	49	184	1.00
331	Special Industry Machinery N.E.C.	3	97	43	143	1.00
332	Pumps and Compressors	11	34	17	63	1.00
333	Ball and Roller Bearings	0	0	0	0	1.00
334	Blowers and Fans	7	31	12	50	1.00
335	Packaging Machinery	2	152	41	194	1.00
336	Power Transmission Equipment	4	11	5	20	1.00
337	Industrial Furnaces and Ovens	1	2	1	4	1.00
338	General Industrial Machinery- N.E.C	3	6	4	14	1.00
339	Electronic Computers	1,361	319	428	2,109	1.00
340	Computer Storage Devices	6	8	4	18	1.00
341	Computer Terminals	0	0	0	1	1.00
342	Computer Peripheral Equipment-	650	864	491	2,005	1.00
343	Calculating and Accounting Machines	44	27	23	94	1.00
344	Typewriters and Office Machines N.E	224	113	139	477	1.00
345	Automatic Merchandising Machine	0	69	18	87	1.00
346	Commercial Laundry Equipment	0	54	15	68	1.00
347	Refrigeration and Heating Equipment	1,587	3,784	1,798	7,169	1.00
348	Measuring and Dispensing Pumps	0	0	0	0	1.00
349	Service Industry Machines- N.E.C.	18	25	216	259	1.00
350	Carburetors- Pistons- Rings- Valves	9	21	9	40	1.00
351	Fluid Power Cylinders & Actuators	2	5	2	10	1.00
352	Fluid Power Pumps & Motors	0	0	0	0	1.00
353	Scales and Balances	71	6	25	102	1.00
354	Industrial Machines N.E.C.	7	17	9	32	1.00
355	Transformers	5	4	3	12	1.00
356	Switchgear and Switchboard Apparatus	56	121	65	242	1.00
357	Motors and Generators	33	171	79	283	1.00
358	Carbon and Graphite Products	0	0	0	0	1.00
359	Relays & Industrial Controls	7	191	74	273	1.00
360	Electrical Industrial Apparatus- N.E.C	1	6	3	10	1.00
361	Household Cooking Equipment	2	0	1	3	1.00
362	Household Refrigerators and Freezers	0	0	0	0	1.00
363	Household Laundry Equipment	0	0	0	0	1.00
364	Electric House wares and Fans	105	12	32	150	1.00
365	Household Vacuum Cleaners	6	0	2	8	1.00
366	Household Appliances- N.E.C.	1	0	1	2	1.00
367	Electric Lamps	1	0	0	1	1.00
368	Wiring Devices	19	30	16	65	1.00
369	Lighting Fixtures and Equipment	26	51	23	99	1.00
370	Radio and TV Receiving Sets	5,588	293	1,420	7,301	1.00
371	Phonograph Records and Tape	1,213	165	338	1,716	1.00
372	Telephone and Telegraph Apparatus	1,876	2,991	1,445	6,313	1.00
373	Radio and TV Communication Equipment	2,257	666	798	3,721	1.00
374	Communications Equipment N.E.C.	168	49	59	276	1.00
375	Electron Tubes	0	36	11	47	1.00
376	Printed Circuit Boards	229	711	283	1,223	1.00
377	Semiconductors and Related Devices	256	9,300	2,933	12,489	1.00
378	Electronic Components- N.E.C.	1,458	4,533	1,808	7,798	1.00
379	Storage Batteries	2,739	475	873	4,087	1.00
380	Primary Batteries- Dry and Wet	0	0	0	0	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
381	Engine Electrical Equipment	878	1,071	581	2,530	1.00
382	Magnetic & Optical Recording Media	22	52	21	95	1.00
383	Electrical Equipment- N.E.C.	868	17	230	1,114	1.00
384	Motor Vehicles	56,364	1,673	14,320	72,357	1.00
385	Truck and Bus Bodies	663	99	189	951	1.00
386	Motor Vehicle Parts and Accessories	1,462	6,665	2,395	10,522	1.00
387	Truck Trailers	40	18	15	73	1.00
388	Motor Homes	299	4	43	346	1.00
389	Aircraft	840	2,263	988	4,091	1.00
390	Aircraft and Missile Engines and Part	5	218	72	296	1.00
391	Aircraft and Missile Equipment-	37	114	47	198	1.00
392	Ship Building and Repairing	0	0	0	0	1.00
393	Boat Building and Repairing	27	1	7	35	1.00
394	Railroad Equipment	100	198	94	392	1.00
395	Motorcycles- Bicycles- and Parts	3	0	1	5	1.00
396	Complete Guided Missiles	0	0	0	0	1.00
397	Travel Trailers and Camper	61	1	9	71	1.00
398	Tanks and Tank Components	0	0	0	0	1.00
399	Transportation Equipment- N.E.C	42	14	18	74	1.00
400	Search & Navigation Equipment	315	118	123	556	1.00
401	Laboratory Apparatus & Furniture	4	4	2	11	1.00
402	Automatic Temperature Controls	0	14	5	18	1.00
403	Mechanical Measuring Devices	85	180	92	356	1.00
404	Instruments To Measure Electricity	10	9	6	25	1.00
405	Analytical Instruments	277	105	107	489	1.00
406	Optical Instruments & Lenses	107	40	41	188	1.00
407	Surgical and Medical Instrument	261	1,963	931	3,156	1.00
408	Surgical Appliances and Supplies	4,729	2,465	2,880	10,074	1.00
409	Dental Equipment and Supplies	2	175	45	222	1.00
410	X-Ray Apparatus	0	8	2	10	1.00
411	Electromedical Apparatus	9	197	57	263	1.00
412	Ophthalmic Goods	4,199	20	1,093	5,312	1.00
413	Photographic Equipment and Supplies	929	79	517	1,524	1.00
414	Watches- Clocks- and Parts	14	0	5	19	1.00
415	Jewelry- Precious Metal	360	19	134	513	1.00
416	Silverware and Plated Ware	9	4	5	18	1.00
417	Jewelers Materials and Lapidary Work	0	0	0	0	1.00
418	Musical Instruments	18	2	5	25	1.00
419	Dolls	3	0	1	4	1.00
420	Games- Toys- and Children's Vehicles	47	2	13	62	1.00
421	Sporting and Athletic Goods- N.E.C.	681	27	189	897	1.00
422	Pens and Mechanical Pencils	2	0	0	2	1.00
423	Lead Pencils and Art Goods	0	0	0	1	1.00
424	Marking Devices	1	13	5	19	1.00
425	Carbon Paper and Inked Ribbons	4	5	8	17	1.00
426	Costume Jewelry	21	0	8	29	1.00
427	Fasteners- Buttons- Needles- Pins	2	2	1	6	1.00
428	Brooms and Brushes	29	17	14	59	1.00
429	Signs and Advertising Displays	39	1,870	518	2,427	1.00
430	Burial Caskets and Vaults	0	17	4	22	1.00
431	Hard Surface Floor Coverings	0	0	0	0	1.00
432	Manufacturing Industries- N.E.C.	429	139	177	745	1.00
433	Railroads and Related Services	3,066	1,901	1,463	6,430	1.00
434	Local- Interurban Passenger Transit	10,120	1,251	5,020	16,391	1.00
435	Motor Freight Transport and Warehouse	50,528	46,598	27,340	124,465	1.00
436	Water Transportation	1,378	254	459	2,091	1.00
437	Air Transportation	27,599	7,137	12,029	46,766	1.00
438	Pipe Lines- Except Natural Gas	1,402	898	680	2,980	1.00
439	Arrangement Of Passenger Transportation	3,945	3,081	2,145	9,171	1.00
440	Transportation Services	1,211	3,231	1,292	5,734	1.00
441	Communications- Except Radio and	98,772	57,028	43,356	199,156	1.00
442	Radio and TV Broadcasting	1,957	15,142	4,599	21,698	1.00
443	Electric Services	114,938	22,357	43,870	181,165	1.00
444	Gas Production and Distribution	34,981	9,166	12,237	56,383	1.00
445	Water Supply and Sewerage Systems	2,591	402	836	3,829	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
446	Sanitary Services and Steam Supply	5,410	8,650	3,876	17,935	1.00
447	Wholesale Trade	327,831	93,021	112,289	533,140	1.00
448	Building Materials & Gardening	52,644	1,389	15,920	69,952	1.00
449	General Merchandise Stores	130,430	737	34,026	165,192	1.00
450	Food Stores	154,973	781	35,951	191,705	1.00
451	Automotive Dealers & Service Station	218,993	5,395	52,425	276,814	1.00
452	Apparel & Accessory Stores	75,611	601	17,875	94,086	1.00
453	Furniture & Home Furnishings Stores	67,912	830	18,440	87,182	1.00
454	Eating & Drinking	325,118	9,685	83,527	418,331	1.00
455	Miscellaneous Retail	236,557	3,061	58,255	297,874	1.00
456	Banking	276,382	58,777	78,093	413,252	1.00
457	Credit Agencies	37,197	41,446	20,593	99,235	1.00
458	Security and Commodity Brokers	37,909	48,747	21,558	108,213	1.00
459	Insurance Carriers	222,227	7,707	57,221	287,155	1.00
460	Insurance Agents and Brokers	0	47,330	11,779	59,109	1.00
461	Owner-occupied Dwellings	645,148	0	173,302	818,449	1.00
462	Real Estate	208,820	143,087	91,808	443,715	1.00
463	Hotels and Lodging Places	64,355	15,233	23,963	103,551	1.00
464	Laundry- Cleaning and Shoe Repair	21,493	4,673	7,189	33,355	1.00
465	Portrait and Photographic Studios	5,648	179	1,785	7,613	1.00
466	Beauty and Barber Shops	27,548	2,581	7,703	37,832	1.00
467	Funeral Service and Crematories	9,790	0	2,461	12,251	1.00
468	Miscellaneous Personal Services	28,743	912	9,086	38,741	1.00
469	Advertising	341	21,376	5,895	27,612	1.00
470	Other Business Services	5,182	69,487	20,362	95,031	1.00
471	Photofinishing- Commercial Photography	8,707	11,109	5,285	25,102	1.00
472	Services To Buildings	4,600	15,411	6,412	26,423	1.00
473	Equipment Rental and Leasing	4,426	7,944	4,206	16,576	1.00
474	Personnel Supply Services	3,346	34,267	12,008	49,621	1.00
475	Computer and Data Processing Service	4,048	84,114	29,834	117,996	1.00
476	Detective and Protective Services	3,392	6,203	3,540	13,135	1.00
477	Automobile Rental and Leasing	8,369	8,187	4,852	21,409	1.00
478	Automobile Parking and Car Wash	12,573	838	3,928	17,338	1.00
479	Automobile Repair and Services	68,308	10,550	21,716	100,574	1.00
480	Electrical Repair Service	5,751	2,937	3,639	12,327	1.00
481	Watch- Clock- Jewelry and Furniture	3,753	15	1,116	4,883	1.00
482	Miscellaneous Repair Shops	4,885	4,967	3,299	13,151	1.00
483	Motion Pictures	22,464	18,466	10,744	51,674	1.00
484	Theatrical Producers- Bands Etc.	8,994	8,296	4,343	21,633	1.00
485	Bowling Alleys and Pool Halls	3,571	2	930	4,503	1.00
486	Commercial Sports Except Racing	8,035	4,474	3,612	16,120	1.00
487	Racing and Track Operation	6,089	1,259	2,162	9,510	1.00
488	Amusement and Recreation Services-	55,783	4	14,378	70,164	1.00
489	Membership Sports and Recreation Cl	16,886	748	5,036	22,670	1.00
490	Doctors and Dentists	341,320	0	81,800	423,120	1.00
491	Nursing and Protective Care	8,675	0	8,365	17,041	1.00
492	Hospitals	192,732	91	59,503	252,327	1.00
493	Other Medical and Health Services	97,739	5,367	24,981	128,087	1.00
494	Legal Services	77,222	29,344	34,031	140,597	1.00
495	Elementary and Secondary Schools	17,177	0	5,753	22,930	1.00
496	Colleges- Universities- Schools	22,426	303	6,943	29,673	1.00
497	Other Educational Services	22,719	653	7,012	30,385	1.00
498	Job Trainings & Related Services	4,178	426	1,543	6,147	1.00
499	Child Day Care Services	36,710	0	11,207	47,917	1.00
500	Social Services- N.E.C.	26,538	29	8,132	34,699	1.00
501	Residential Care	9,986	0	3,190	13,176	1.00
502	Other Nonprofit Organizations	8,855	288	2,670	11,813	1.00
503	Business Associations	12,087	3,083	3,516	18,686	1.00
504	Labor and Civic Organizations	20,558	41	5,447	26,046	1.00
505	Religious Organizations	24,468	0	7,177	31,645	1.00
506	Engineering- Architectural Services	0	11,955	4,226	16,181	1.00
507	Accounting- Auditing and Bookkeeping	1,829	42,717	13,649	58,195	1.00
508	Management and Consulting Services	28	41,840	16,789	58,657	1.00
509	Research- Development & Testing Ser	0	8,521	2,781	11,302	1.00
510	Local Government Passenger Transit	2,329	285	1,155	3,769	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
511	State and Local Electric Utilities	12,152	2,351	4,635	19,139	1.00
512	Other State and Local Govt Enterprise	56,235	8,006	17,082	81,324	1.00
513	U.S. Postal Service	9,599	20,449	9,648	39,695	1.00
514	Federal Electric Utilities	0	0	0	0	1.00
515	Other Federal Government Enterprise	17,461	2,803	4,988	25,251	1.00
516	Noncomparable Imports	0	0	0	0	1.00
517	Scrap	0	0	0	0	1.00
518	Used and Secondhand Goods	0	0	0	0	1.00
519	Federal Government - Military	0	0	0	0	1.00
520	Federal Government - Non-Military	0	0	0	0	1.00
521	Commodity Credit Corporation	0	0	0	0	1.00
522	State & Local Government - Education	0	0	88,606	88,606	1.00
523	State & Local Government - Non-Educ	0	0	93,067	93,067	1.00
524	Rest Of The World Industry	0	0	0	0	1.00
525	Domestic Services	21,834	0	4,836	26,670	1.00
526	Dummy	0	0	0	0	1.00
527	Dummy	0	0	0	0	1.00
528	Inventory Valuation Adjustment	0	0	0	0	1.00
11001	Federal Government NonDefense	875	0	0	875	1.00
12001	State/Local Govt NonEducation	260,538	0	0	260,538	1.00
14001	Capital	12,175	0	0	12,175	1.00
14002	Inventory Additions/Deletions	15	0	0	15	1.00
25001	Foreign Trade	305,662	0	0	305,662	1.00
28001	Domestic Trade	2,576,584	0	0	2,576,584	1.00
	Total	8,470,962	1,500,886	2,043,551	12,015,398	

Note: *1999 Dollars - if results are deflated and aggregated, then deflators displayed are set to 1.0 (results have been deflated)

DFW 1999.iap

IMPACT NAME: Baylor-Grapevine Employment 50k+ MULTIPLIER: Type SAM

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
1	Dairy Farm Products	136	1,220	425	1,781	1.00
2	Poultry and Eggs	726	816	446	1,988	1.00
3	Ranch Fed Cattle	87	4,171	1,216	5,473	1.00
4	Range Fed Cattle	42	1,989	580	2,611	1.00
5	Cattle Feedlots	11	689	200	900	1.00
6	Sheep- Lambs and Goats	0	23	7	31	1.00
7	Hogs- Pigs and Swine	2	102	30	133	1.00
8	Other Meat Animal Products	0	1	0	2	1.00
9	Miscellaneous Livestock	1,963	241	610	2,814	1.00
10	Cotton	4	4	2	10	1.00
11	Food Grains	11	11	6	29	1.00
12	Feed Grains	66	90	47	203	1.00
13	Hay and Pasture	93	128	67	288	1.00
14	Grass Seeds	0	0	0	0	1.00
15	Tobacco	0	0	0	0	1.00
16	Fruits	302	2	83	387	1.00
17	Tree Nuts	292	18	83	394	1.00
18	Vegetables	277	38	88	403	1.00
19	Sugar Crops	0	0	0	0	1.00
20	Miscellaneous Crops	0	0	0	0	1.00
21	Oil Bearing Crops	18	87	29	133	1.00
22	Forest Products	7	2	2	11	1.00
23	Greenhouse and Nursery Products	7,310	1,848	2,892	12,050	1.00
24	Forestry Products	25	1	7	33	1.00
25	Commercial Fishing	8	16	6	31	1.00
26	Agricultural- Forestry- Fishery Service	185	57	69	311	1.00
27	Landscape and Horticultural Services	0	18,470	6,813	25,283	1.00
28	Iron Ores	0	0	0	0	1.00
29	Copper Ores	0	0	0	0	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
30	Lead and Zinc Ores	0	0	0	0	1.00
31	Gold Ores	0	12	5	17	1.00
32	Silver Ores	0	0	0	0	1.00
33	Ferroalloy Ores- Except Vanadium	0	0	0	0	1.00
34	Metal Mining Services	0	0	0	0	1.00
35	Uranium-radium-vanadium Ores	0	4	2	6	1.00
36	Metal Ores- Not Elsewhere Classified	0	0	0	0	1.00
37	Coal Mining	1	91	32	124	1.00
38	Natural Gas & Crude Petroleum	52,369	41,643	30,285	124,298	1.00
39	Natural Gas Liquids	12,206	9,707	7,059	28,972	1.00
40	Dimension Stone	0	12	5	17	1.00
41	Sand and Gravel	0	27	9	36	1.00
42	Clay- Ceramic- Refractory Minerals-	0	0	0	0	1.00
43	Potash- Soda- and Borate Minerals	0	0	0	0	1.00
44	Phosphate Rock	0	0	0	0	1.00
45	Chemical- Fertilizer Mineral Mining-	0	5	2	8	1.00
46	Nonmetallic Minerals (Except Fuels)	0	0	0	0	1.00
47	Misc. Nonmetallic Minerals- N.E.C.	0	0	0	0	1.00
48	New Residential Structures	0	0	0	0	1.00
49	New Industrial and Commercial Build	0	0	0	0	1.00
50	New Utility Structures	0	0	0	0	1.00
51	New Highways and Streets	0	0	0	0	1.00
52	New Farm Structures	0	0	0	0	1.00
53	New Mineral Extraction Facilities	0	0	0	0	1.00
54	New Government Facilities	0	0	0	0	1.00
55	Maintenance and Repair- Residential	0	123,764	31,634	155,398	1.00
56	Maintenance and Repair Other Facility	0	100,061	65,283	165,343	1.00
57	Maintenance and Repair Oil and Gas	0	2,016	649	2,665	1.00
58	Meat Packing Plants	20,236	4,410	7,066	31,713	1.00
59	Sausages and Other Prepared Meats	44,806	7,923	14,730	67,460	1.00
60	Poultry Processing	8,576	1,408	2,703	12,687	1.00
61	Creamery Butter	18	10	9	37	1.00
62	Cheese- Natural and Processed	286	89	105	479	1.00
63	Condensed and Evaporated Milk	0	0	0	0	1.00
64	Ice Cream and Frozen Desserts	4,873	2,734	2,335	9,942	1.00
65	Fluid Milk	29,805	3,025	10,430	43,261	1.00
66	Canned Specialties	263	24	81	369	1.00
67	Canned Fruits and Vegetables	156	22	53	230	1.00
68	Dehydrated Food Products	63	11	21	95	1.00
69	Pickles- Sauces- and Salad Dressings	1,078	244	369	1,690	1.00
70	Frozen Fruits- Juices and Vegetables	4	1	1	7	1.00
71	Frozen Specialties	927	146	295	1,368	1.00
72	Flour and Other Grain Mill Products	130	227	99	456	1.00
73	Cereal Preparations	0	0	0	0	1.00
74	Rice Milling	0	0	0	0	1.00
75	Blended and Prepared Flour	986	100	301	1,387	1.00
76	Wet Corn Milling	0	0	0	0	1.00
77	Dog- Cat- and Other Pet Food	120	2	33	155	1.00
78	Prepared Feeds- N.E.C	179	54	67	300	1.00
79	Bread- Cake- and Related Products	25,961	11,458	10,535	47,954	1.00
80	Cookies and Crackers	4,416	344	1,298	6,057	1.00
81	Sugar	927	430	389	1,747	1.00
82	Confectionery Products	1,508	112	439	2,059	1.00
83	Chocolate and Cocoa Products	0	0	0	0	1.00
84	Chewing Gum	0	0	0	0	1.00
85	Salted and Roasted Nuts & Seeds	115	13	35	163	1.00
86	Cottonseed Oil Mills	2	120	34	156	1.00
87	Soybean Oil Mills	0	0	0	0	1.00
88	Vegetable Oil Mills- N.E.C	41	37	21	100	1.00
89	Animal and Marine Fats and Oils	28	292	91	412	1.00
90	Shortening and Cooking Oils	6,148	3,524	2,737	12,408	1.00
91	Malt Beverages	2,866	653	859	4,378	1.00
92	Malt	0	0	0	0	1.00
93	Wines- Brandy- and Brandy Spirits	0	0	0	0	1.00
94	Distilled Liquor- Except Brandy	0	0	0	0	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
95	Bottled and Canned Soft Drinks & Water	4,477	418	1,311	6,206	1.00
96	Flavoring Extracts and Syrups- N.E.C	2,323	440	765	3,528	1.00
97	Canned and Cured Sea Foods	3	1	1	4	1.00
98	Prepared Fresh Or Frozen Fish Or Se	0	0	0	0	1.00
99	Roasted Coffee	631	314	274	1,220	1.00
100	Potato Chips & Similar Snacks	19,460	1,461	5,561	26,482	1.00
101	Manufactured Ice	849	0	226	1,076	1.00
102	Macaroni and Spaghetti	557	35	160	752	1.00
103	Food Preparations- N.E.C	31,180	1,159	9,006	41,345	1.00
104	Cigarettes	0	0	0	0	1.00
105	Cigars	0	0	0	0	1.00
106	Chewing and Smoking Tobacco	0	0	0	0	1.00
107	Tobacco Stemming and Redrying	0	0	0	0	1.00
108	Broadwoven Fabric Mills and Finishing	123	180	73	376	1.00
109	Narrow Fabric Mills	8	22	8	37	1.00
110	Women's Hosiery- Except Socks	0	0	0	0	1.00
111	Hosiery- N.E.C	34	0	9	42	1.00
112	Knit Outerwear Mills	7	1	2	10	1.00
113	Knit Underwear Mills	0	0	0	0	1.00
114	Knit Fabric Mills	45	256	79	380	1.00
115	Knitting Mills- N.E.C.	0	0	0	0	1.00
116	Yarn Mills and Finishing Of Textiles-	2	10	3	14	1.00
117	Carpets and Rugs	68	5	14	87	1.00
118	Thread Mills	12	17	7	36	1.00
119	Coated Fabrics- Not Rubberized	6	15	5	27	1.00
120	Tire Cord and Fabric	0	0	0	0	1.00
121	Non woven Fabrics	0	0	0	0	1.00
122	Cordage and Twine	27	25	14	66	1.00
123	Textile Goods- N.E.C	10	9	5	24	1.00
124	Apparel Made From Purchased Material	48,334	976	12,977	62,287	1.00
125	Curtains and Draperies	4,356	722	1,127	6,205	1.00
126	House furnishings- N.E.C	20,730	2,082	4,938	27,749	1.00
127	Textile Bags	113	84	55	252	1.00
128	Canvas Products	740	241	266	1,247	1.00
129	Pleating and Stitching	1,660	409	445	2,514	1.00
130	Automotive and Apparel Trimmings	6,905	2,629	2,063	11,597	1.00
131	Schiffi Machine Embroideries	13	9	5	27	1.00
132	Fabricated Textile Products- N.E.C.	3,610	948	1,142	5,701	1.00
133	Logging Camps and Logging Contractor	0	180	50	230	1.00
134	Sawmills and Planing Mills- General	2	664	213	879	1.00
135	Hardwood Dimension and Flooring Mi	42	1,179	389	1,610	1.00
136	Special Product Sawmills- N.E.C	0	0	0	0	1.00
137	Millwork	82	2,593	873	3,548	1.00
138	Wood Kitchen Cabinets	60	2,522	755	3,336	1.00
139	Veneer and Plywood	0	5	2	6	1.00
140	Structural Wood Members- N.E.C	3	831	261	1,096	1.00
141	Wood Containers	3	189	52	244	1.00
142	Wood Pallets and Skids	18	1,181	325	1,524	1.00
143	Mobile Homes	0	3	1	4	1.00
144	Prefabricated Wood Buildings	1	2	1	4	1.00
145	Wood Preserving	4	216	68	288	1.00
146	Reconstituted Wood Products	4	182	63	248	1.00
147	Wood Products- N.E.C	6,918	1,046	1,579	9,544	1.00
148	Wood Household Furniture	3,243	31	904	4,179	1.00
149	Upholstered Household Furniture	8,907	207	2,517	11,631	1.00
150	Metal Household Furniture	2,251	178	666	3,094	1.00
151	Mattresses and Bedsprings	8,154	516	2,393	11,063	1.00
152	Wood TV and Radio Cabinets	24	89	28	141	1.00
153	Household Furniture- N.E.C	275	118	106	499	1.00
154	Wood Office Furniture	364	42	111	517	1.00
155	Metal Office Furniture	2	72	19	93	1.00
156	Public Building Furniture	80	2,231	526	2,837	1.00
157	Wood Partitions and Fixtures	30	22	13	66	1.00
158	Metal Partitions and Fixtures	44	48	26	118	1.00
159	Blinds- Shades- and Drapery Hardware	7,143	744	1,402	9,289	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
160	Furniture and Fixtures- N.E.C	71	46	34	151	1.00
161	Pulp Mills	3	1	1	6	1.00
162	Paper Mills- Except Building Paper	3	2	1	6	1.00
163	Paperboard Mills	47	25	20	92	1.00
164	Paperboard Containers and Boxes	1,156	21,403	6,601	29,160	1.00
165	Paper Coated & Laminated Packaging	51	70	36	156	1.00
166	Paper Coated & Laminated N.E.C.	185	253	129	567	1.00
167	Bags- Plastic	66	84	47	197	1.00
168	Bags- Paper	1	1	1	3	1.00
169	Die-cut Paper and Board	5	24	10	39	1.00
170	Sanitary Paper Products	31	6	12	49	1.00
171	Envelopes	2	12	6	20	1.00
172	Stationery Products	21	57	27	105	1.00
173	Converted Paper Products- N.E.C	102	39	40	181	1.00
174	Newspapers	6,259	13,864	5,441	25,564	1.00
175	Periodicals	4,780	5,678	2,878	13,336	1.00
176	Book Publishing	11,094	826	3,632	15,552	1.00
177	Book Printing	11	598	203	812	1.00
178	Miscellaneous Publishing	1,390	5,275	1,879	8,545	1.00
179	Commercial Printing	904	31,056	9,245	41,205	1.00
180	Manifold Business Forms	9	1,398	928	2,335	1.00
181	Greeting Card Publishing	1,675	63	527	2,265	1.00
182	Blankbooks and Looseleaf Binder	551	926	478	1,955	1.00
183	Bookbinding & Related	4	222	154	380	1.00
184	Typesetting	0	185	59	244	1.00
185	Plate Making	4	406	174	585	1.00
186	Alkalies & Chlorine	0	0	0	0	1.00
187	Industrial Gases	212	896	496	1,603	1.00
188	Inorganic Pigments	15	62	34	111	1.00
189	Inorganic Chemicals Nec.	241	1,018	564	1,823	1.00
190	Cyclic Crudes- Interm. & Indus. Orga	1,630	6,900	3,818	12,348	1.00
191	Plastics Materials and Resins	98	687	284	1,068	1.00
192	Synthetic Rubber	0	7	3	10	1.00
193	Cellulosic Man-made Fibers	0	0	0	0	1.00
194	Organic Fibers- Non cellulosic	0	0	0	0	1.00
195	Drugs	52,708	21,743	25,871	100,322	1.00
196	Soap and Other Detergents	7,027	128	2,128	9,283	1.00
197	Polishes and Sanitation Goods	15,087	876	4,666	20,630	1.00
198	Surface Active Agents	2	22	10	34	1.00
199	Toilet Preparations	33,618	294	8,584	42,496	1.00
200	Paints and Allied Products	47	101	51	199	1.00
201	Gum and Wood Chemicals	0	0	0	0	1.00
202	Nitrogenous and Phosphatic Fertilizer	6	43	20	69	1.00
203	Fertilizers- Mixing Only	25	102	48	176	1.00
204	Agricultural Chemicals- N.E.C	220	113	130	463	1.00
205	Adhesives and Sealants	1,488	1,475	939	3,901	1.00
206	Explosives	0	32	14	46	1.00
207	Printing Ink	5	1,322	399	1,726	1.00
208	Carbon Black	0	1	0	2	1.00
209	Chemical Preparations- N.E.C	1,226	2,122	1,060	4,407	1.00
210	Petroleum Refining	25,220	5,993	10,033	41,246	1.00
211	Paving Mixtures and Blocks	11	1,258	476	1,746	1.00
212	Asphalt Felts and Coatings	31	2,020	828	2,878	1.00
213	Lubricating Oils and Greases	6,745	2,140	2,629	11,515	1.00
214	Petroleum and Coal Products- N.E.C.	0	0	0	0	1.00
215	Tires and Inner Tubes	5	1	1	8	1.00
216	Rubber and Plastics Footwear	0	0	0	0	1.00
217	Rubber and Plastics Hose and Belting	0	0	0	1	1.00
218	Gaskets- Packing and Sealing Device	13	8	5	25	1.00
219	Fabricated Rubber Products- N.E.C.	69	51	42	162	1.00
220	Miscellaneous Plastics Products	480	508	272	1,261	1.00
221	Leather Tanning and Finishing	6	1,076	271	1,353	1.00
222	Footwear Cut Stock	15	1	5	21	1.00
223	House Slippers	0	0	0	0	1.00
224	Shoes- Except Rubber	2,656	4	769	3,429	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
225	Leather Gloves and Mittens	0	0	0	0	1.00
226	Luggage	586	50	167	803	1.00
227	Women's Handbags and Purses	94	0	26	120	1.00
228	Personal Leather Goods	22	0	6	28	1.00
229	Leather Goods- N.E.C	1,256	25	295	1,577	1.00
230	Glass and Glass Products- Except Containers	1,253	2,509	1,106	4,869	1.00
231	Glass Containers	261	606	238	1,105	1.00
232	Cement- Hydraulic	0	4	2	6	1.00
233	Brick and Structural Clay Tile	0	3	1	4	1.00
234	Ceramic Wall and Floor Tile	0	26	8	34	1.00
235	Clay Refractories	0	0	0	0	1.00
236	Structural Clay Products- N.E.C	0	0	0	0	1.00
237	Vitreous Plumbing Fixtures	0	0	0	0	1.00
238	Vitreous China Food Utensils	0	0	0	0	1.00
239	Fine Earthenware Food Utensils	0	0	0	0	1.00
240	Porcelain Electrical Supplies	2	6	3	11	1.00
241	Pottery Products- N.E.C	4	0	1	5	1.00
242	Concrete Block and Brick	0	3	1	4	1.00
243	Concrete Products- N.E.C	1	9	4	14	1.00
244	Ready-mixed Concrete	0	37	13	50	1.00
245	Lime	1	11	5	17	1.00
246	Gypsum Products	1	11	4	16	1.00
247	Cut Stone and Stone Products	3	2	2	6	1.00
248	Abrasive Products	20	12	11	42	1.00
249	Asbestos Products	0	0	0	0	1.00
250	Minerals- Ground Or Treated	0	0	0	0	1.00
251	Mineral Wool	45	75	31	152	1.00
252	Nonclay Refractories	0	1	1	2	1.00
253	Nonmetallic Mineral Products- N.E.C	35	9	9	53	1.00
254	Blast Furnaces and Steel Mills	27	286	104	418	1.00
255	Electrometallurgical Products	0	1	0	1	1.00
256	Steel Wire and Related Products	42	88	37	167	1.00
257	Cold Finishing Of Steel Shapes	0	2	1	3	1.00
258	Steel Pipe and Tubes	0	25	8	33	1.00
259	Iron and Steel Foundries	0	7	3	11	1.00
260	Primary Copper	0	0	0	0	1.00
261	Primary Aluminum	0	0	0	0	1.00
262	Primary Nonferrous Metals- N.E.C.	0	1	1	2	1.00
263	Secondary Nonferrous Metals	0	28	8	36	1.00
264	Copper Rolling and Drawing	1	18	6	25	1.00
265	Aluminum Rolling and Drawing	55	100	44	199	1.00
266	Nonferrous Rolling and Drawing- N.E	2	17	5	23	1.00
267	Nonferrous Wire Drawing and Insulation	67	215	94	376	1.00
268	Aluminum Foundries	2	22	10	33	1.00
269	Brass- Bronze- and Copper Foundries	0	1	0	1	1.00
270	Nonferrous Castings- N.E.C.	1	14	6	21	1.00
271	Metal Heat Treating	1	33	13	47	1.00
272	Primary Metal Products- N.E.C	1	2	1	3	1.00
273	Metal Cans	0	263	74	337	1.00
274	Metal Barrels- Drums and Pails	1	134	40	175	1.00
275	Cutlery	0	0	0	0	1.00
276	Hand and Edge Tools- N.E.C.	1,146	582	505	2,234	1.00
277	Hand Saws and Saw Blades	27	18	19	64	1.00
278	Hardware- N.E.C.	251	346	160	757	1.00
279	Metal Sanitary Ware	6	11	5	22	1.00
280	Plumbing Fixture Fittings and Trim	46	61	35	142	1.00
281	Heating Equipment- Except Electric	23	17	12	52	1.00
282	Fabricated Structural Metal	8	55	29	92	1.00
283	Metal Doors- Sash- and Trim	171	233	112	515	1.00
284	Fabricated Plate Work (Boiler Shops)	7	30	13	50	1.00
285	Sheet Metal Work	89	249	101	439	1.00
286	Architectural Metal Work	6	30	17	53	1.00
287	Prefabricated Metal Buildings	11	28	14	53	1.00
288	Miscellaneous Metal Work	32	72	44	148	1.00
289	Screw Machine Products and Bolts- Et	99	342	126	567	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
290	Iron and Steel Forgings	4	41	13	58	1.00
291	Nonferrous Forgings	0	1	0	2	1.00
292	Automotive Stampings	12	761	180	953	1.00
293	Crowns and Closures	51	109	53	213	1.00
294	Metal Stampings- N.E.C.	611	531	340	1,482	1.00
295	Plating and Polishing	3	132	40	175	1.00
296	Metal Coating and Allied Services	1	208	64	273	1.00
297	Small Arms Ammunition	0	0	0	0	1.00
298	Ammunition- Except For Small Arms-	0	0	0	0	1.00
299	Small Arms	3	1	1	5	1.00
300	Other Ordnance and Accessories	0	0	0	0	1.00
301	Industrial and Fluid Valves	16	359	131	505	1.00
302	Steel Springs- Except Wire	6	40	11	57	1.00
303	Pipe- Valves- and Pipe Fittings	2	54	19	75	1.00
304	Miscellaneous Fabricated Wire Products	266	744	290	1,300	1.00
305	Metal Foil and Leaf	0	0	0	0	1.00
306	Fabricated Metal Products- N.E.C.	269	264	142	675	1.00
307	Steam Engines and Turbines	3	224	77	305	1.00
308	Internal Combustion Engines- N.E.C.	44	294	114	452	1.00
309	Farm Machinery and Equipment	2	59	34	95	1.00
310	Lawn and Garden Equipment	0	0	0	0	1.00
311	Construction Machinery and Equipment	9	63	27	100	1.00
312	Mining Machinery- Except Oil Field	21	13	9	42	1.00
313	Oil Field Machinery	85	316	143	544	1.00
314	Elevators and Moving Stairways	1	7	3	11	1.00
315	Conveyors and Conveying Equipment	8	43	16	67	1.00
316	Hoists- Cranes- and Monorails	12	14	7	33	1.00
317	Industrial Trucks and Tractors	1	116	34	151	1.00
318	Machine Tools- Metal Cutting Types	15	2	11	27	1.00
319	Machine Tools- Metal Forming Types	0	5	2	7	1.00
320	Industrial Patterns	0	0	0	0	1.00
321	Special Dies and Tools and Accessories	9	222	96	326	1.00
322	Power Driven Hand Tools	1,595	60	324	1,979	1.00
323	Rolling Mill Machinery	0	0	0	0	1.00
324	Welding Apparatus	100	58	41	200	1.00
325	Metalworking Machinery- N.E.C.	7	18	7	32	1.00
326	Textile Machinery	0	16	4	20	1.00
327	Woodworking Machinery	182	1	38	221	1.00
328	Paper Industries Machinery	0	43	13	55	1.00
329	Printing Trades Machinery	9	56	22	87	1.00
330	Food Products Machinery	13	210	84	307	1.00
331	Special Industry Machinery N.E.C.	8	166	74	247	1.00
332	Pumps and Compressors	35	57	30	122	1.00
333	Ball and Roller Bearings	0	0	0	0	1.00
334	Blowers and Fans	15	57	21	93	1.00
335	Packaging Machinery	5	244	70	320	1.00
336	Power Transmission Equipment	10	21	9	40	1.00
337	Industrial Furnaces and Ovens	1	4	2	7	1.00
338	General Industrial Machinery- N.E.C	6	11	8	24	1.00
339	Electronic Computers	2,306	552	737	3,595	1.00
340	Computer Storage Devices	10	13	7	30	1.00
341	Computer Terminals	0	0	0	1	1.00
342	Computer Peripheral Equipment-	1,104	1,477	846	3,426	1.00
343	Calculating and Accounting Machines	127	47	40	214	1.00
344	Typewriters and Office Machines N.E	566	190	240	997	1.00
345	Automatic Merchandising Machine	0	124	31	155	1.00
346	Commercial Laundry Equipment	0	81	25	106	1.00
347	Refrigeration and Heating Equipment	3,253	6,865	3,096	13,213	1.00
348	Measuring and Dispensing Pumps	0	0	0	0	1.00
349	Service Industry Machines- N.E.C.	30	42	374	446	1.00
350	Carburetors- Pistons- Rings- Valves	20	40	16	76	1.00
351	Fluid Power Cylinders & Actuators	4	10	4	18	1.00
352	Fluid Power Pumps & Motors	0	0	0	1	1.00
353	Scales and Balances	231	10	44	284	1.00
354	Industrial Machines N.E.C.	16	30	15	61	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
355	Transformers	10	7	5	22	1.00
356	Switchgear and Switchboard Apparatus	139	210	112	460	1.00
357	Motors and Generators	97	323	136	557	1.00
358	Carbon and Graphite Products	0	0	0	0	1.00
359	Relays & Industrial Controls	15	353	128	496	1.00
360	Electrical Industrial Apparatus- N.E.C	2	11	5	18	1.00
361	Household Cooking Equipment	4	0	1	5	1.00
362	Household Refrigerators and Freezers	0	0	0	0	1.00
363	Household Laundry Equipment	1	0	0	1	1.00
364	Electric House wares and Fans	209	22	56	286	1.00
365	Household Vacuum Cleaners	13	0	3	17	1.00
366	Household Appliances- N.E.C.	2	1	1	4	1.00
367	Electric Lamps	1	1	1	3	1.00
368	Wiring Devices	42	54	28	125	1.00
369	Lighting Fixtures and Equipment	54	94	40	187	1.00
370	Radio and TV Receiving Sets	9,509	530	2,443	12,483	1.00
371	Phonograph Records and Tape	2,055	302	582	2,939	1.00
372	Telephone and Telegraph Apparatus	5,747	4,862	2,487	13,097	1.00
373	Radio and TV Communication Equipment	3,937	1,202	1,374	6,513	1.00
374	Communications Equipment N.E.C.	292	89	102	484	1.00
375	Electron Tubes	1	61	18	80	1.00
376	Printed Circuit Boards	393	1,265	488	2,146	1.00
377	Semiconductors and Related Devices	446	16,211	5,050	21,708	1.00
378	Electronic Components- N.E.C.	2,508	8,065	3,112	13,684	1.00
379	Storage Batteries	5,525	856	1,502	7,882	1.00
380	Primary Batteries- Dry and Wet	0	0	0	0	1.00
381	Engine Electrical Equipment	1,833	1,974	1,000	4,807	1.00
382	Magnetic & Optical Recording Media	38	90	36	163	1.00
383	Electrical Equipment- N.E.C.	1,599	30	395	2,024	1.00
384	Motor Vehicles	106,682	3,169	24,635	134,486	1.00
385	Truck and Bus Bodies	1,255	188	325	1,767	1.00
386	Motor Vehicle Parts and Accessories	3,132	12,519	4,123	19,774	1.00
387	Truck Trailers	76	34	26	135	1.00
388	Motor Homes	455	6	74	536	1.00
389	Aircraft	1,302	4,516	1,700	7,518	1.00
390	Aircraft and Missile Engines and Part	10	385	124	519	1.00
391	Aircraft and Missile Equipment-	67	218	81	366	1.00
392	Ship Building and Repairing	0	0	0	0	1.00
393	Boat Building and Repairing	41	2	12	56	1.00
394	Railroad Equipment	192	371	162	725	1.00
395	Motorcycles- Bicycles- and Parts	6	1	2	9	1.00
396	Complete Guided Missiles	0	0	0	1	1.00
397	Travel Trailers and Camper	94	2	15	111	1.00
398	Tanks and Tank Components	0	0	0	0	1.00
399	Transportation Equipment- N.E.C	78	24	30	132	1.00
400	Search & Navigation Equipment	635	204	211	1,051	1.00
401	Laboratory Apparatus & Furniture	11	7	4	22	1.00
402	Automatic Temperature Controls	0	24	8	32	1.00
403	Mechanical Measuring Devices	229	319	158	706	1.00
404	Instruments To Measure Electricity	19	17	10	45	1.00
405	Analytical Instruments	412	174	185	770	1.00
406	Optical Instruments & Lenses	158	67	71	296	1.00
407	Surgical and Medical Instrument	383	3,411	1,604	5,398	1.00
408	Surgical Appliances and Supplies	7,093	4,330	4,963	16,386	1.00
409	Dental Equipment and Supplies	2	306	78	386	1.00
410	X-Ray Apparatus	0	14	3	18	1.00
411	Electromedical Apparatus	14	344	98	456	1.00
412	Ophthalmic Goods	6,745	34	1,880	8,660	1.00
413	Photographic Equipment and Supplies	1,516	136	891	2,543	1.00
414	Watches- Clocks- and Parts	43	0	9	52	1.00
415	Jewelry- Precious Metal	1,053	36	231	1,320	1.00
416	Silverware and Plated Ware	22	8	8	38	1.00
417	Jewelers Materials and Lapidary Work	0	0	0	0	1.00
418	Musical Instruments	31	3	9	42	1.00
419	Dolls	5	1	1	7	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
420	Games- Toys- and Children's Vehicles	82	4	22	108	1.00
421	Sporting and Athletic Goods- N.E.C.	1,100	52	325	1,477	1.00
422	Pens and Mechanical Pencils	2	0	1	3	1.00
423	Lead Pencils and Art Goods	1	0	0	1	1.00
424	Marking Devices	2	22	9	33	1.00
425	Carbon Paper and Inked Ribbons	6	9	14	29	1.00
426	Costume Jewelry	61	1	13	74	1.00
427	Fasteners- Buttons- Needles- Pins	4	3	2	10	1.00
428	Brooms and Brushes	62	30	24	115	1.00
429	Signs and Advertising Displays	61	3,200	892	4,153	1.00
430	Burial Caskets and Vaults	0	20	8	28	1.00
431	Hard Surface Floor Coverings	0	0	0	0	1.00
432	Manufacturing Industries- N.E.C.	893	248	304	1,445	1.00
433	Railroads and Related Services	5,847	3,178	2,518	11,543	1.00
434	Local- Interurban Passenger Transit	21,731	2,134	8,644	32,509	1.00
435	Motor Freight Transport and Warehouse	84,842	78,442	47,054	210,337	1.00
436	Water Transportation	2,520	429	789	3,738	1.00
437	Air Transportation	57,308	12,252	20,700	90,260	1.00
438	Pipe Lines- Except Natural Gas	2,307	1,501	1,171	4,979	1.00
439	Arrangement Of Passenger Transportation	9,003	5,728	3,691	18,422	1.00
440	Transportation Services	2,277	5,478	2,224	9,979	1.00
441	Communications- Except Radio and	154,177	96,445	74,629	325,251	1.00
442	Radio and TV Broadcasting	2,989	25,905	7,915	36,809	1.00
443	Electric Services	184,579	37,853	75,542	297,974	1.00
444	Gas Production and Distribution	50,108	14,725	21,066	85,899	1.00
445	Water Supply and Sewerage Systems	4,080	668	1,440	6,188	1.00
446	Sanitary Services and Steam Supply	8,544	14,307	6,671	29,523	1.00
447	Wholesale Trade	567,082	160,256	193,253	920,591	1.00
448	Building Materials & Gardening	130,091	2,440	27,389	159,921	1.00
449	General Merchandise Stores	251,133	1,294	58,540	310,967	1.00
450	Food Stores	232,483	1,372	61,860	295,715	1.00
451	Automotive Dealers & Service Station	361,863	9,480	90,207	461,549	1.00
452	Apparel & Accessory Stores	116,964	1,056	30,752	148,772	1.00
453	Furniture & Home Furnishings Stores	138,004	1,459	31,725	171,188	1.00
454	Eating & Drinking	543,389	16,608	143,717	703,715	1.00
455	Miscellaneous Retail	408,501	5,379	100,234	514,114	1.00
456	Banking	406,661	98,896	134,399	639,956	1.00
457	Credit Agencies	62,515	73,724	35,437	171,676	1.00
458	Security and Commodity Brokers	45,778	78,936	37,115	161,829	1.00
459	Insurance Carriers	398,423	13,684	98,439	510,546	1.00
460	Insurance Agents and Brokers	0	84,829	20,263	105,092	1.00
461	Owner-occupied Dwellings	1,261,720	0	298,115	1,559,835	1.00
462	Real Estate	207,278	254,050	158,029	619,357	1.00
463	Hotels and Lodging Places	109,104	25,856	41,235	176,196	1.00
464	Laundry- Cleaning and Shoe Repair	31,299	8,112	12,372	51,783	1.00
465	Portrait and Photographic Studios	12,107	314	3,072	15,492	1.00
466	Beauty and Barber Shops	46,296	4,336	13,253	63,885	1.00
467	Funeral Service and Crematories	11,124	0	4,235	15,360	1.00
468	Miscellaneous Personal Services	61,609	1,595	15,630	78,835	1.00
469	Advertising	485	36,583	10,145	47,213	1.00
470	Other Business Services	7,941	119,909	35,041	162,891	1.00
471	Photofinishing- Commercial Photography	13,531	19,733	9,094	42,358	1.00
472	Services To Buildings	6,784	24,690	11,040	42,514	1.00
473	Equipment Rental and Leasing	7,191	13,739	7,243	28,173	1.00
474	Personnel Supply Services	4,761	58,973	20,677	84,411	1.00
475	Computer and Data Processing Service	6,852	144,161	51,378	202,392	1.00
476	Detective and Protective Services	5,229	10,507	6,096	21,833	1.00
477	Automobile Rental and Leasing	16,840	13,871	8,352	39,063	1.00
478	Automobile Parking and Car Wash	25,317	1,437	6,760	33,514	1.00
479	Automobile Repair and Services	137,553	18,381	37,369	193,302	1.00
480	Electrical Repair Service	9,545	4,792	6,269	20,606	1.00
481	Watch- Clock- Jewelry and Furniture	6,818	25	1,919	8,762	1.00
482	Miscellaneous Repair Shops	7,586	8,552	5,681	21,818	1.00
483	Motion Pictures	40,802	33,298	18,485	92,585	1.00
484	Theatrical Producers- Bands Etc.	15,492	14,057	7,473	37,022	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
485	Bowling Alleys and Pool Halls	7,204	4	1,599	8,807	1.00
486	Commercial Sports Except Racing	17,034	8,166	6,213	31,413	1.00
487	Racing and Track Operation	13,077	2,700	3,719	19,495	1.00
488	Amusement and Recreation Services-	100,714	9	24,735	125,458	1.00
489	Membership Sports and Recreation Cl	28,701	1,268	8,663	38,632	1.00
490	Doctors and Dentists	604,495	0	140,738	745,233	1.00
491	Nursing and Protective Care	2,648	0	14,400	17,048	1.00
492	Hospitals	340,422	156	102,389	442,967	1.00
493	Other Medical and Health Services	162,884	9,492	42,983	215,358	1.00
494	Legal Services	126,238	50,311	58,577	235,126	1.00
495	Elementary and Secondary Schools	40,950	0	9,894	50,845	1.00
496	Colleges- Universities- Schools	45,232	516	11,943	57,691	1.00
497	Other Educational Services	52,675	1,169	12,063	65,907	1.00
498	Job Trainings & Related Services	9,807	771	2,655	13,232	1.00
499	Child Day Care Services	86,565	0	19,281	105,846	1.00
500	Social Services- N.E.C.	62,291	68	13,992	76,350	1.00
501	Residential Care	23,439	0	5,489	28,928	1.00
502	Other Nonprofit Organizations	20,471	497	4,594	25,562	1.00
503	Business Associations	17,235	5,295	6,051	28,580	1.00
504	Labor and Civic Organizations	39,465	71	9,370	48,906	1.00
505	Religious Organizations	57,431	0	12,347	69,778	1.00
506	Engineering- Architectural Services	0	19,345	7,279	26,624	1.00
507	Accounting- Auditing and Bookkeeping	2,676	74,695	23,498	100,869	1.00
508	Management and Consulting Services	43	72,299	28,923	101,265	1.00
509	Research- Development & Testing Ser	0	14,581	4,788	19,369	1.00
510	Local Government Passenger Transit	5,003	486	1,989	7,478	1.00
511	State and Local Electric Utilities	19,516	3,981	7,982	31,479	1.00
512	Other State and Local Govt Enterprise	87,502	13,409	29,400	130,311	1.00
513	U.S. Postal Service	14,770	35,471	16,610	66,851	1.00
514	Federal Electric Utilities	0	0	0	0	1.00
515	Other Federal Government Enterprise	29,566	4,518	8,582	42,666	1.00
516	Noncomparable Imports	0	0	0	0	1.00
517	Scrap	0	0	0	0	1.00
518	Used and Secondhand Goods	0	0	0	0	1.00
519	Federal Government - Military	0	0	0	0	1.00
520	Federal Government - Non-Military	0	0	0	0	1.00
521	Commodity Credit Corporation	0	0	0	0	1.00
522	State & Local Government - Education	0	0	153,001	153,001	1.00
523	State & Local Government - Non-Educ	0	0	160,704	160,704	1.00
524	Rest Of The World Industry	0	0	0	0	1.00
525	Domestic Services	30,995	0	8,320	39,315	1.00
526	Dummy	0	0	0	0	1.00
527	Dummy	0	0	0	0	1.00
528	Inventory Valuation Adjustment	0	0	0	0	1.00
11001	Federal Government NonDefense	1,345	0	0	1,345	1.00
12001	State/Local Govt NonEducation	477,323	0	0	477,323	1.00
14001	Capital	18,559	0	0	18,559	1.00
14002	Inventory Additions/Deletions	24	0	0	24	1.00
25001	Foreign Trade	534,160	0	0	534,160	1.00
28001	Domestic Trade	4,479,361	0	0	4,479,361	1.00
	Total	14,643,538	2,583,495	3,517,941	20,744,973	

Note: *1999 Dollars - if results are deflated and aggregated, then deflators displayed are set to 1.0 (results have been deflated)

DFW 1999.iap

IMPACT NAME: Baylor-Grapevine Visitor Impacts MULTIPLIER: Type SAM

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
1	Dairy Farm Products	0	89	145	234	1.00
2	Poultry and Eggs	0	142	153	294	1.00
3	Ranch Fed Cattle	0	220	416	637	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
4	Range Fed Cattle	0	105	199	304	1.00
5	Cattle Feedlots	0	36	69	105	1.00
6	Sheep- Lambs and Goats	0	1	2	4	1.00
7	Hogs- Pigs and Swine	0	5	10	15	1.00
8	Other Meat Animal Products	0	0	0	0	1.00
9	Miscellaneous Livestock	0	6	210	216	1.00
10	Cotton	0	0	1	1	1.00
11	Food Grains	0	1	2	3	1.00
12	Feed Grains	0	6	16	22	1.00
13	Hay and Pasture	0	8	23	31	1.00
14	Grass Seeds	0	0	0	0	1.00
15	Tobacco	0	0	0	0	1.00
16	Fruits	0	1	28	29	1.00
17	Tree Nuts	0	3	29	31	1.00
18	Vegetables	0	25	30	56	1.00
19	Sugar Crops	0	0	0	0	1.00
20	Miscellaneous Crops	0	0	0	0	1.00
21	Oil Bearing Crops	0	3	10	12	1.00
22	Forest Products	0	0	1	1	1.00
23	Greenhouse and Nursery Products	0	336	983	1,319	1.00
24	Forestry Products	0	0	2	2	1.00
25	Commercial Fishing	0	18	2	20	1.00
26	Agricultural- Forestry- Fishery Service	0	3	24	27	1.00
27	Landscape and Horticultural Services	0	4,698	2,290	6,988	1.00
28	Iron Ores	0	0	0	0	1.00
29	Copper Ores	0	0	0	0	1.00
30	Lead and Zinc Ores	0	0	0	0	1.00
31	Gold Ores	0	1	2	3	1.00
32	Silver Ores	0	0	0	0	1.00
33	Ferroalloy Ores- Except Vanadium	0	0	0	0	1.00
34	Metal Mining Services	0	0	0	0	1.00
35	Uranium-radium-vanadium Ores	0	0	1	1	1.00
36	Metal Ores- Not Elsewhere Classified	0	0	0	0	1.00
37	Coal Mining	0	10	11	21	1.00
38	Natural Gas & Crude Petroleum	0	3,949	10,250	14,199	1.00
39	Natural Gas Liquids	0	921	2,389	3,310	1.00
40	Dimension Stone	0	2	2	3	1.00
41	Sand and Gravel	0	3	3	6	1.00
42	Clay- Ceramic- Refractory Minerals-	0	0	0	0	1.00
43	Potash- Soda- and Borate Minerals	0	0	0	0	1.00
44	Phosphate Rock	0	0	0	0	1.00
45	Chemical- Fertilizer Mineral Mining-	0	0	1	1	1.00
46	Nonmetallic Minerals (Except Fuels)	0	0	0	0	1.00
47	Misc. Nonmetallic Minerals- N.E.C.	0	0	0	0	1.00
48	New Residential Structures	0	0	0	0	1.00
49	New Industrial and Commercial Build	0	0	0	0	1.00
50	New Utility Structures	0	0	0	0	1.00
51	New Highways and Streets	0	0	0	0	1.00
52	New Farm Structures	0	0	0	0	1.00
53	New Mineral Extraction Facilities	0	0	0	0	1.00
54	New Government Facilities	0	0	0	0	1.00
55	Maintenance and Repair- Residential	0	3,639	10,889	14,528	1.00
56	Maintenance and Repair Other Facility	0	34,649	21,437	56,085	1.00
57	Maintenance and Repair Oil and Gas	0	85	220	304	1.00
58	Meat Packing Plants	0	1,147	2,420	3,567	1.00
59	Sausages and Other Prepared Meats	0	5,270	5,052	10,323	1.00
60	Poultry Processing	0	862	929	1,791	1.00
61	Creamery Butter	0	7	3	10	1.00
62	Cheese- Natural and Processed	0	86	36	122	1.00
63	Condensed and Evaporated Milk	0	0	0	0	1.00
64	Ice Cream and Frozen Desserts	0	2,489	795	3,284	1.00
65	Fluid Milk	0	1,896	3,546	5,443	1.00
66	Canned Specialties	0	22	28	50	1.00
67	Canned Fruits and Vegetables	0	19	18	37	1.00
68	Dehydrated Food Products	0	4	7	11	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
69	Pickles- Sauces- and Salad Dressings	0	194	126	321	1.00
70	Frozen Fruits- Juices and Vegetables	0	1	1	2	1.00
71	Frozen Specialties	0	141	101	242	1.00
72	Flour and Other Grain Mill Products	0	67	34	101	1.00
73	Cereal Preparations	0	0	0	0	1.00
74	Rice Milling	0	0	0	0	1.00
75	Blended and Prepared Flour	0	72	103	175	1.00
76	Wet Corn Milling	0	0	0	0	1.00
77	Dog- Cat- and Other Pet Food	0	0	11	11	1.00
78	Prepared Feeds- N.E.C	0	5	23	28	1.00
79	Bread- Cake- and Related Products	0	11,828	3,609	15,437	1.00
80	Cookies and Crackers	0	325	446	771	1.00
81	Sugar	0	179	133	312	1.00
82	Confectionery Products	0	84	151	235	1.00
83	Chocolate and Cocoa Products	0	0	0	0	1.00
84	Chewing Gum	0	0	0	0	1.00
85	Salted and Roasted Nuts & Seeds	0	8	12	20	1.00
86	Cottonseed Oil Mills	0	10	12	22	1.00
87	Soybean Oil Mills	0	0	0	0	1.00
88	Vegetable Oil Mills- N.E.C	0	4	7	12	1.00
89	Animal and Marine Fats and Oils	0	22	31	53	1.00
90	Shortening and Cooking Oils	0	912	938	1,851	1.00
91	Malt Beverages	0	735	296	1,031	1.00
92	Malt	0	0	0	0	1.00
93	Wines- Brandy- and Brandy Spirits	0	0	0	0	1.00
94	Distilled Liquor- Except Brandy	0	0	0	0	1.00
95	Bottled and Canned Soft Drinks & Water	0	417	451	868	1.00
96	Flavoring Extracts and Syrups- N.E.C	0	368	262	630	1.00
97	Canned and Cured Sea Foods	0	1	0	1	1.00
98	Prepared Fresh Or Frozen Fish Or Se	0	0	0	0	1.00
99	Roasted Coffee	0	316	94	410	1.00
100	Potato Chips & Similar Snacks	0	1,587	1,914	3,502	1.00
101	Manufactured Ice	0	0	78	78	1.00
102	Macaroni and Spaghetti	0	15	55	70	1.00
103	Food Preparations- N.E.C	0	524	3,091	3,615	1.00
104	Cigarettes	0	0	0	0	1.00
105	Cigars	0	0	0	0	1.00
106	Chewing and Smoking Tobacco	0	0	0	0	1.00
107	Tobacco Stemming and Redrying	0	0	0	0	1.00
108	Broadwoven Fabric Mills and Finishing	0	40	25	65	1.00
109	Narrow Fabric Mills	0	1	3	3	1.00
110	Women's Hosiery- Except Socks	0	0	0	0	1.00
111	Hosiery- N.E.C	0	0	3	3	1.00
112	Knit Outerwear Mills	0	0	1	1	1.00
113	Knit Underwear Mills	0	0	0	0	1.00
114	Knit Fabric Mills	0	2	27	29	1.00
115	Knitting Mills- N.E.C.	0	0	0	0	1.00
116	Yarn Mills and Finishing Of Textiles-	0	1	1	2	1.00
117	Carpets and Rugs	0	2	5	6	1.00
118	Thread Mills	0	0	2	3	1.00
119	Coated Fabrics- Not Rubberized	0	1	2	2	1.00
120	Tire Cord and Fabric	0	0	0	0	1.00
121	Non woven Fabrics	0	0	0	0	1.00
122	Cordage and Twine	0	1	5	6	1.00
123	Textile Goods- N.E.C	0	1	2	3	1.00
124	Apparel Made From Purchased Material	0	109	4,465	4,574	1.00
125	Curtains and Draperies	0	254	387	641	1.00
126	House furnishings- N.E.C	0	6,462	1,698	8,160	1.00
127	Textile Bags	0	7	19	26	1.00
128	Canvas Products	0	112	91	203	1.00
129	Pleating and Stitching	0	10	153	163	1.00
130	Automotive and Apparel Trimmings	0	9	711	720	1.00
131	Schiffi Machine Embroideries	0	1	2	3	1.00
132	Fabricated Textile Products- N.E.C.	0	47	389	436	1.00
133	Logging Camps and Logging Contractor	0	21	17	38	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
134	Sawmills and Planing Mills- General	0	75	72	147	1.00
135	Hardwood Dimension and Flooring Mi	0	52	132	184	1.00
136	Special Product Sawmills- N.E.C	0	0	0	0	1.00
137	Millwork	0	248	295	544	1.00
138	Wood Kitchen Cabinets	0	150	257	407	1.00
139	Veneer and Plywood	0	0	1	1	1.00
140	Structural Wood Members- N.E.C	0	63	89	152	1.00
141	Wood Containers	0	20	18	38	1.00
142	Wood Pallets and Skids	0	687	111	798	1.00
143	Mobile Homes	0	0	0	1	1.00
144	Prefabricated Wood Buildings	0	0	0	0	1.00
145	Wood Preserving	0	17	23	40	1.00
146	Reconstituted Wood Products	0	9	21	30	1.00
147	Wood Products- N.E.C	0	253	543	796	1.00
148	Wood Household Furniture	0	4	312	316	1.00
149	Upholstered Household Furniture	0	0	868	869	1.00
150	Metal Household Furniture	0	3	230	232	1.00
151	Mattresses and Bedsprings	0	5	825	830	1.00
152	Wood TV and Radio Cabinets	0	0	10	10	1.00
153	Household Furniture- N.E.C	0	1	37	38	1.00
154	Wood Office Furniture	0	1	38	39	1.00
155	Metal Office Furniture	0	2	6	8	1.00
156	Public Building Furniture	0	13	181	194	1.00
157	Wood Partitions and Fixtures	0	1	5	6	1.00
158	Metal Partitions and Fixtures	0	3	9	12	1.00
159	Blinds- Shades- and Drapery Hardware	0	0	483	484	1.00
160	Furniture and Fixtures- N.E.C	0	1	12	12	1.00
161	Pulp Mills	0	0	0	1	1.00
162	Paper Mills- Except Building Paper	0	0	0	1	1.00
163	Paperboard Mills	0	6	7	13	1.00
164	Paperboard Containers and Boxes	0	5,872	2,254	8,126	1.00
165	Paper Coated & Laminated Packaging	0	14	12	26	1.00
166	Paper Coated & Laminated N.E.C.	0	50	44	94	1.00
167	Bags- Plastic	0	20	16	36	1.00
168	Bags- Paper	0	0	0	1	1.00
169	Die-cut Paper and Board	0	5	3	9	1.00
170	Sanitary Paper Products	0	1	4	5	1.00
171	Envelopes	0	2	2	4	1.00
172	Stationery Products	0	10	9	19	1.00
173	Converted Paper Products- N.E.C	0	8	14	22	1.00
174	Newspapers	0	4,489	1,864	6,352	1.00
175	Periodicals	0	1,779	985	2,763	1.00
176	Book Publishing	0	85	1,235	1,320	1.00
177	Book Printing	0	34	69	103	1.00
178	Miscellaneous Publishing	0	1,480	642	2,122	1.00
179	Commercial Printing	0	9,314	3,151	12,466	1.00
180	Manifold Business Forms	0	374	304	678	1.00
181	Greeting Card Publishing	0	6	182	188	1.00
182	Blankbooks and Looseleaf Binder	0	140	163	303	1.00
183	Bookbinding & Related	0	8	50	59	1.00
184	Typesetting	0	57	20	77	1.00
185	Plate Making	0	115	58	173	1.00
186	Alkalies & Chlorine	0	0	0	0	1.00
187	Industrial Gases	0	70	165	235	1.00
188	Inorganic Pigments	0	5	11	16	1.00
189	Inorganic Chemicals Nec.	0	79	188	267	1.00
190	Cyclic Crudes- Interm. & Indus. Orga	0	537	1,273	1,811	1.00
191	Plastics Materials and Resins	0	48	96	143	1.00
192	Synthetic Rubber	0	0	1	1	1.00
193	Cellulosic Man-made Fibers	0	0	0	0	1.00
194	Organic Fibers- Non cellulosic	0	0	0	0	1.00
195	Drugs	0	20	8,799	8,819	1.00
196	Soap and Other Detergents	0	30	730	760	1.00
197	Polishes and Sanitation Goods	0	213	1,602	1,815	1.00
198	Surface Active Agents	0	1	3	5	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
199	Toilet Preparations	0	7	2,955	2,962	1.00
200	Paints and Allied Products	0	12	17	29	1.00
201	Gum and Wood Chemicals	0	0	0	0	1.00
202	Nitrogenous and Phosphatic Fertilizer	0	25	7	32	1.00
203	Fertilizers- Mixing Only	0	72	16	88	1.00
204	Agricultural Chemicals- N.E.C	0	10	44	53	1.00
205	Adhesives and Sealants	0	210	320	530	1.00
206	Explosives	0	6	5	11	1.00
207	Printing Ink	0	313	136	449	1.00
208	Carbon Black	0	0	0	0	1.00
209	Chemical Preparations- N.E.C	0	176	359	535	1.00
210	Petroleum Refining	0	1,136	3,393	4,529	1.00
211	Paving Mixtures and Blocks	0	157	160	317	1.00
212	Asphalt Felts and Coatings	0	319	277	596	1.00
213	Lubricating Oils and Greases	0	588	894	1,481	1.00
214	Petroleum and Coal Products- N.E.C.	0	0	0	0	1.00
215	Tires and Inner Tubes	0	0	1	1	1.00
216	Rubber and Plastics Footwear	0	0	0	0	1.00
217	Rubber and Plastics Hose and Belting	0	0	0	0	1.00
218	Gaskets- Packing and Sealing Device	0	1	2	3	1.00
219	Fabricated Rubber Products- N.E.C.	0	5	14	19	1.00
220	Miscellaneous Plastics Products	0	106	93	198	1.00
221	Leather Tanning and Finishing	0	20	93	113	1.00
222	Footwear Cut Stock	0	0	2	2	1.00
223	House Slippers	0	0	0	0	1.00
224	Shoes- Except Rubber	0	0	265	265	1.00
225	Leather Gloves and Mittens	0	0	0	0	1.00
226	Luggage	0	14	58	71	1.00
227	Women's Handbags and Purses	0	0	9	9	1.00
228	Personal Leather Goods	0	0	2	2	1.00
229	Leather Goods- N.E.C	0	3	101	104	1.00
230	Glass and Glass Products- Except Containers	0	1,739	375	2,114	1.00
231	Glass Containers	0	54	82	136	1.00
232	Cement- Hydraulic	0	0	1	1	1.00
233	Brick and Structural Clay Tile	0	0	0	1	1.00
234	Ceramic Wall and Floor Tile	0	2	3	4	1.00
235	Clay Refractories	0	0	0	0	1.00
236	Structural Clay Products- N.E.C	0	0	0	0	1.00
237	Vitreous Plumbing Fixtures	0	0	0	0	1.00
238	Vitreous China Food Utensils	0	0	0	0	1.00
239	Fine Earthenware Food Utensils	0	0	0	0	1.00
240	Porcelain Electrical Supplies	0	3	1	4	1.00
241	Pottery Products- N.E.C	0	1	0	1	1.00
242	Concrete Block and Brick	0	0	0	1	1.00
243	Concrete Products- N.E.C	0	2	1	3	1.00
244	Ready-mixed Concrete	0	4	4	8	1.00
245	Lime	0	1	2	3	1.00
246	Gypsum Products	0	1	1	2	1.00
247	Cut Stone and Stone Products	0	0	1	1	1.00
248	Abrasive Products	0	1	4	5	1.00
249	Asbestos Products	0	0	0	0	1.00
250	Minerals- Ground Or Treated	0	0	0	0	1.00
251	Mineral Wool	0	30	11	40	1.00
252	Nonclay Refractories	0	0	0	1	1.00
253	Nonmetallic Mineral Products- N.E.C	0	1	3	4	1.00
254	Blast Furnaces and Steel Mills	0	25	35	60	1.00
255	Electrometallurgical Products	0	0	0	0	1.00
256	Steel Wire and Related Products	0	9	13	22	1.00
257	Cold Finishing Of Steel Shapes	0	0	0	0	1.00
258	Steel Pipe and Tubes	0	2	3	5	1.00
259	Iron and Steel Foundries	0	1	1	2	1.00
260	Primary Copper	0	0	0	0	1.00
261	Primary Aluminum	0	0	0	0	1.00
262	Primary Nonferrous Metals- N.E.C.	0	0	0	0	1.00
263	Secondary Nonferrous Metals	0	1	3	4	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
264	Copper Rolling and Drawing	0	1	2	3	1.00
265	Aluminum Rolling and Drawing	0	10	15	25	1.00
266	Nonferrous Rolling and Drawing- N.E	0	1	2	3	1.00
267	Nonferrous Wire Drawing and Insulation	0	53	32	85	1.00
268	Aluminum Foundries	0	2	3	5	1.00
269	Brass- Bronze- and Copper Foundries	0	0	0	0	1.00
270	Nonferrous Castings- N.E.C.	0	1	2	3	1.00
271	Metal Heat Treating	0	3	4	7	1.00
272	Primary Metal Products- N.E.C	0	0	0	0	1.00
273	Metal Cans	0	25	25	50	1.00
274	Metal Barrels- Drums and Pails	0	8	14	22	1.00
275	Cutlery	0	0	0	0	1.00
276	Hand and Edge Tools- N.E.C.	0	161	170	331	1.00
277	Hand Saws and Saw Blades	0	2	6	8	1.00
278	Hardware- N.E.C.	0	28	54	82	1.00
279	Metal Sanitary Ware	0	1	2	3	1.00
280	Plumbing Fixture Fittings and Trim	0	5	12	17	1.00
281	Heating Equipment- Except Electric	0	2	4	6	1.00
282	Fabricated Structural Metal	0	13	10	22	1.00
283	Metal Doors- Sash- and Trim	0	37	38	75	1.00
284	Fabricated Plate Work (Boiler Shops)	0	4	4	8	1.00
285	Sheet Metal Work	0	20	34	54	1.00
286	Architectural Metal Work	0	6	6	12	1.00
287	Prefabricated Metal Buildings	0	3	5	8	1.00
288	Miscellaneous Metal Work	0	16	15	31	1.00
289	Screw Machine Products and Bolts- Et	0	18	43	61	1.00
290	Iron and Steel Forgings	0	3	5	7	1.00
291	Nonferrous Forgings	0	0	0	0	1.00
292	Automotive Stampings	0	9	62	71	1.00
293	Crowns and Closures	0	12	18	30	1.00
294	Metal Stampings- N.E.C.	0	49	116	165	1.00
295	Plating and Polishing	0	12	14	25	1.00
296	Metal Coating and Allied Services	0	13	22	35	1.00
297	Small Arms Ammunition	0	0	0	0	1.00
298	Ammunition- Except For Small Arms-	0	0	0	0	1.00
299	Small Arms	0	0	0	0	1.00
300	Other Ordnance and Accessories	0	0	0	0	1.00
301	Industrial and Fluid Valves	0	41	44	85	1.00
302	Steel Springs- Except Wire	0	1	4	5	1.00
303	Pipe- Valves- and Pipe Fittings	0	6	7	13	1.00
304	Miscellaneous Fabricated Wire Products	0	78	99	177	1.00
305	Metal Foil and Leaf	0	0	0	0	1.00
306	Fabricated Metal Products- N.E.C.	0	46	48	95	1.00
307	Steam Engines and Turbines	0	23	26	49	1.00
308	Internal Combustion Engines- N.E.C.	0	16	38	54	1.00
309	Farm Machinery and Equipment	0	4	11	15	1.00
310	Lawn and Garden Equipment	0	0	0	0	1.00
311	Construction Machinery and Equipment	0	5	9	14	1.00
312	Mining Machinery- Except Oil Field	0	1	3	4	1.00
313	Oil Field Machinery	0	53	48	101	1.00
314	Elevators and Moving Stairways	0	0	1	1	1.00
315	Conveyors and Conveying Equipment	0	12	6	18	1.00
316	Hoists- Cranes- and Monorails	0	1	2	3	1.00
317	Industrial Trucks and Tractors	0	12	12	23	1.00
318	Machine Tools- Metal Cutting Types	0	0	3	4	1.00
319	Machine Tools- Metal Forming Types	0	1	1	1	1.00
320	Industrial Patterns	0	0	0	0	1.00
321	Special Dies and Tools and Accessories	0	24	32	56	1.00
322	Power Driven Hand Tools	0	4	111	115	1.00
323	Rolling Mill Machinery	0	0	0	0	1.00
324	Welding Apparatus	0	9	14	22	1.00
325	Metalworking Machinery- N.E.C.	0	2	3	4	1.00
326	Textile Machinery	0	2	1	4	1.00
327	Woodworking Machinery	0	0	13	13	1.00
328	Paper Industries Machinery	0	10	4	14	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
329	Printing Trades Machinery	0	12	7	19	1.00
330	Food Products Machinery	0	143	28	171	1.00
331	Special Industry Machinery N.E.C.	0	18	25	43	1.00
332	Pumps and Compressors	0	5	10	16	1.00
333	Ball and Roller Bearings	0	0	0	0	1.00
334	Blowers and Fans	0	5	7	12	1.00
335	Packaging Machinery	0	153	24	177	1.00
336	Power Transmission Equipment	0	2	3	5	1.00
337	Industrial Furnaces and Ovens	0	0	1	1	1.00
338	General Industrial Machinery- N.E.C	0	2	3	5	1.00
339	Electronic Computers	0	114	253	367	1.00
340	Computer Storage Devices	0	3	2	5	1.00
341	Computer Terminals	0	0	0	0	1.00
342	Computer Peripheral Equipment-	0	297	286	583	1.00
343	Calculating and Accounting Machines	0	10	14	23	1.00
344	Typewriters and Office Machines N.E	0	51	81	132	1.00
345	Automatic Merchandising Machine	0	7	11	18	1.00
346	Commercial Laundry Equipment	0	11	9	20	1.00
347	Refrigeration and Heating Equipment	0	627	1,048	1,676	1.00
348	Measuring and Dispensing Pumps	0	0	0	0	1.00
349	Service Industry Machines- N.E.C.	0	12	119	131	1.00
350	Carburetors- Pistons- Rings- Valves	0	4	6	9	1.00
351	Fluid Power Cylinders & Actuators	0	1	1	3	1.00
352	Fluid Power Pumps & Motors	0	0	0	0	1.00
353	Scales and Balances	0	3	15	18	1.00
354	Industrial Machines N.E.C.	0	3	5	8	1.00
355	Transformers	0	3	2	5	1.00
356	Switchgear and Switchboard Apparatus	0	36	38	73	1.00
357	Motors and Generators	0	24	46	70	1.00
358	Carbon and Graphite Products	0	0	0	0	1.00
359	Relays & Industrial Controls	0	64	43	107	1.00
360	Electrical Industrial Apparatus- N.E.C	0	1	2	2	1.00
361	Household Cooking Equipment	0	0	0	0	1.00
362	Household Refrigerators and Freezers	0	0	0	0	1.00
363	Household Laundry Equipment	0	0	0	0	1.00
364	Electric House wares and Fans	0	10	19	29	1.00
365	Household Vacuum Cleaners	0	0	1	1	1.00
366	Household Appliances- N.E.C.	0	0	0	0	1.00
367	Electric Lamps	0	0	0	0	1.00
368	Wiring Devices	0	6	10	16	1.00
369	Lighting Fixtures and Equipment	0	13	14	27	1.00
370	Radio and TV Receiving Sets	0	41	841	882	1.00
371	Phonograph Records and Tape	0	63	200	263	1.00
372	Telephone and Telegraph Apparatus	0	548	853	1,401	1.00
373	Radio and TV Communication Equipment	0	149	470	618	1.00
374	Communications Equipment N.E.C.	0	11	35	46	1.00
375	Electron Tubes	0	2	6	8	1.00
376	Printed Circuit Boards	0	133	166	299	1.00
377	Semiconductors and Related Devices	0	2,217	1,716	3,933	1.00
378	Electronic Components- N.E.C.	0	847	1,058	1,904	1.00
379	Storage Batteries	0	68	516	583	1.00
380	Primary Batteries- Dry and Wet	0	0	0	0	1.00
381	Engine Electrical Equipment	0	240	341	581	1.00
382	Magnetic & Optical Recording Media	0	18	12	30	1.00
383	Electrical Equipment- N.E.C.	0	2	136	138	1.00
384	Motor Vehicles	0	90	8,496	8,586	1.00
385	Truck and Bus Bodies	0	3	112	115	1.00
386	Motor Vehicle Parts and Accessories	0	966	1,407	2,373	1.00
387	Truck Trailers	0	2	9	11	1.00
388	Motor Homes	0	0	26	26	1.00
389	Aircraft	0	244	583	827	1.00
390	Aircraft and Missile Engines and Part	0	29	42	71	1.00
391	Aircraft and Missile Equipment-	0	15	28	43	1.00
392	Ship Building and Repairing	0	0	0	0	1.00
393	Boat Building and Repairing	0	0	4	4	1.00

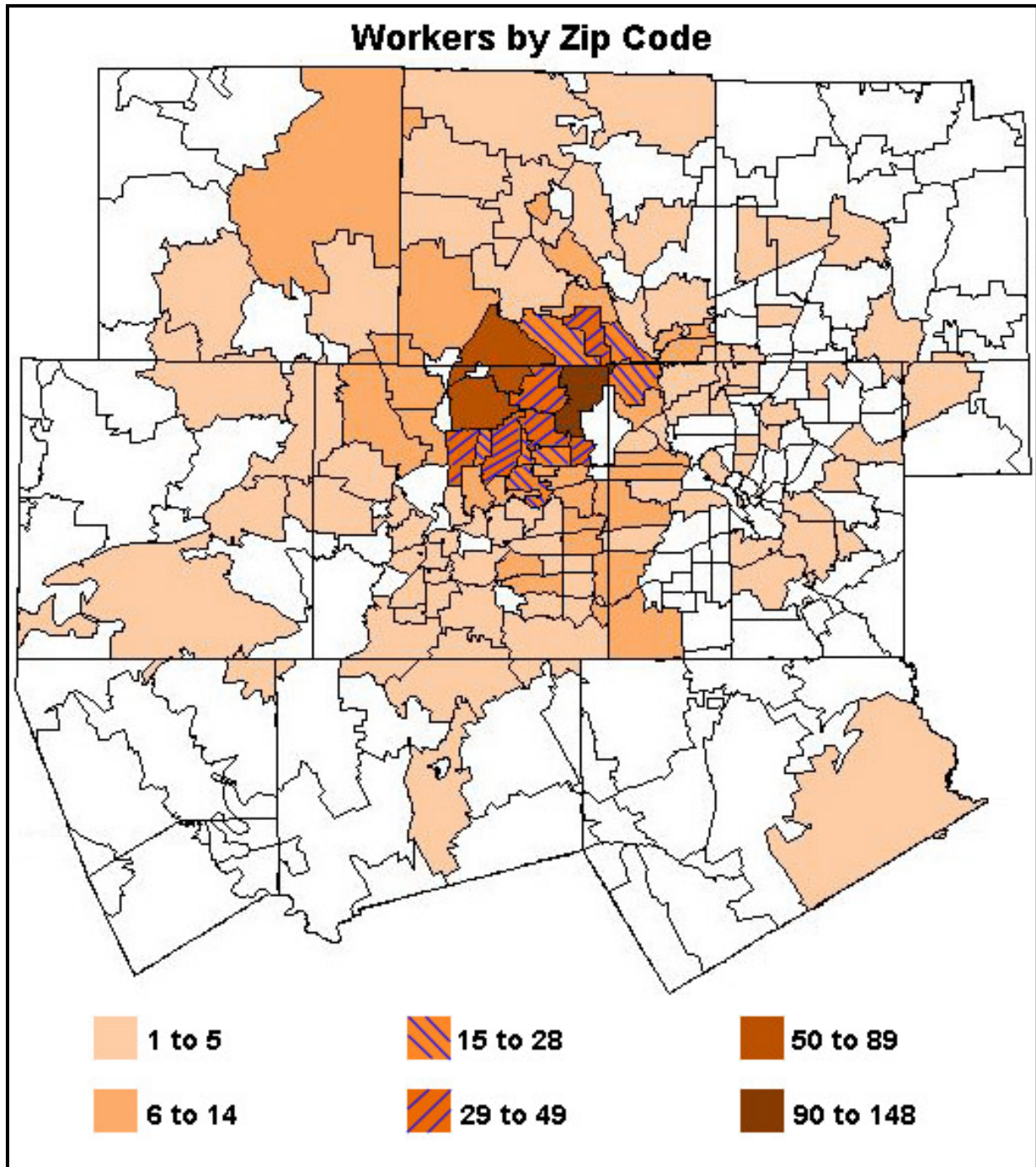
	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
394	Railroad Equipment	0	24	55	79	1.00
395	Motorcycles- Bicycles- and Parts	0	0	1	1	1.00
396	Complete Guided Missiles	0	0	0	0	1.00
397	Travel Trailers and Camper	0	0	5	5	1.00
398	Tanks and Tank Components	0	0	0	0	1.00
399	Transportation Equipment- N.E.C	0	3	10	13	1.00
400	Search & Navigation Equipment	0	21	72	93	1.00
401	Laboratory Apparatus & Furniture	0	0	1	2	1.00
402	Automatic Temperature Controls	0	2	3	5	1.00
403	Mechanical Measuring Devices	0	56	53	110	1.00
404	Instruments To Measure Electricity	0	2	3	5	1.00
405	Analytical Instruments	0	4	63	67	1.00
406	Optical Instruments & Lenses	0	2	24	26	1.00
407	Surgical and Medical Instrument	0	66	536	603	1.00
408	Surgical Appliances and Supplies	0	47	1,659	1,706	1.00
409	Dental Equipment and Supplies	0	0	27	27	1.00
410	X-Ray Apparatus	0	0	1	1	1.00
411	Electromedical Apparatus	0	1	34	34	1.00
412	Ophthalmic Goods	0	1	644	645	1.00
413	Photographic Equipment and Supplies	0	20	295	315	1.00
414	Watches- Clocks- and Parts	0	0	3	3	1.00
415	Jewelry- Precious Metal	0	8	80	88	1.00
416	Silverware and Plated Ware	0	7	3	10	1.00
417	Jewelers Materials and Lapidary Work	0	0	0	0	1.00
418	Musical Instruments	0	0	3	3	1.00
419	Dolls	0	0	0	0	1.00
420	Games- Toys- and Children's Vehicles	0	1	8	8	1.00
421	Sporting and Athletic Goods- N.E.C.	0	5	111	117	1.00
422	Pens and Mechanical Pencils	0	0	0	0	1.00
423	Lead Pencils and Art Goods	0	0	0	0	1.00
424	Marking Devices	0	6	3	9	1.00
425	Carbon Paper and Inked Ribbons	0	2	5	7	1.00
426	Costume Jewelry	0	0	4	5	1.00
427	Fasteners- Buttons- Needles- Pins	0	0	1	1	1.00
428	Brooms and Brushes	0	10	8	18	1.00
429	Signs and Advertising Displays	0	1,039	305	1,344	1.00
430	Burial Caskets and Vaults	0	0	3	3	1.00
431	Hard Surface Floor Coverings	0	0	0	0	1.00
432	Manufacturing Industries- N.E.C.	0	82	104	185	1.00
433	Railroads and Related Services	0	571	858	1,430	1.00
434	Local- Interurban Passenger Transit	0	673	2,924	3,597	1.00
435	Motor Freight Transport and Warehouse	0	26,101	16,083	42,185	1.00
436	Water Transportation	0	101	270	371	1.00
437	Air Transportation	0	3,821	7,085	10,906	1.00
438	Pipe Lines- Except Natural Gas	0	207	397	605	1.00
439	Arrangement Of Passenger Transportation	0	19,898	1,266	21,164	1.00
440	Transportation Services	197,079	3,002	760	200,841	1.00
441	Communications- Except Radio and	0	29,015	25,472	54,488	1.00
442	Radio and TV Broadcasting	0	8,418	2,711	11,128	1.00
443	Electric Services	0	24,446	25,574	50,020	1.00
444	Gas Production and Distribution	0	4,654	7,168	11,822	1.00
445	Water Supply and Sewerage Systems	0	395	490	885	1.00
446	Sanitary Services and Steam Supply	0	11,029	2,279	13,308	1.00
447	Wholesale Trade	0	43,617	66,169	109,786	1.00
448	Building Materials & Gardening	0	508	9,440	9,948	1.00
449	General Merchandise Stores	0	269	20,177	20,446	1.00
450	Food Stores	0	285	21,297	21,582	1.00
451	Automotive Dealers & Service Station	0	1,972	31,053	33,025	1.00
452	Apparel & Accessory Stores	0	220	10,597	10,817	1.00
453	Furniture & Home Furnishings Stores	0	303	10,934	11,238	1.00
454	Eating & Drinking	630,654	7,302	49,434	687,390	1.00
455	Miscellaneous Retail	394,159	1,119	34,521	429,798	1.00
456	Banking	0	47,996	46,077	94,073	1.00
457	Credit Agencies	0	34,972	12,150	47,122	1.00
458	Security and Commodity Brokers	0	11,395	12,623	24,017	1.00

	Industry	Direct*	Indirect*	Induced*	Total*	Deflator
459	Insurance Carriers	0	2,293	33,940	36,233	1.00
460	Insurance Agents and Brokers	0	472	6,986	7,458	1.00
461	Owner-occupied Dwellings	0	0	102,871	102,871	1.00
462	Real Estate	0	77,525	54,018	131,543	1.00
463	Hotels and Lodging Places	1,524,080	8,498	14,117	1,546,695	1.00
464	Laundry- Cleaning and Shoe Repair	0	5,563	4,239	9,802	1.00
465	Portrait and Photographic Studios	0	44	1,059	1,103	1.00
466	Beauty and Barber Shops	0	0	4,567	4,567	1.00
467	Funeral Service and Crematories	0	0	1,455	1,455	1.00
468	Miscellaneous Personal Services	0	223	5,389	5,612	1.00
469	Advertising	0	11,939	3,471	15,410	1.00
470	Other Business Services	0	42,278	12,007	54,285	1.00
471	Photofinishing- Commercial Photography	0	4,209	3,126	7,334	1.00
472	Services To Buildings	0	14,976	3,741	18,717	1.00
473	Equipment Rental and Leasing	0	3,343	2,448	5,791	1.00
474	Personnel Supply Services	0	26,364	7,003	33,366	1.00
475	Computer and Data Processing Service	0	43,033	17,338	60,370	1.00
476	Detective and Protective Services	0	9,090	2,055	11,145	1.00
477	Automobile Rental and Leasing	0	3,136	2,850	5,987	1.00
478	Automobile Parking and Car Wash	0	990	2,310	3,300	1.00
479	Automobile Repair and Services	0	4,628	12,825	17,453	1.00
480	Electrical Repair Service	0	1,785	2,099	3,885	1.00
481	Watch- Clock- Jewelry and Furniture	0	28	661	689	1.00
482	Miscellaneous Repair Shops	0	3,009	1,924	4,933	1.00
483	Motion Pictures	0	3,297	6,365	9,662	1.00
484	Theatrical Producers- Bands Etc.	0	7,331	2,571	9,903	1.00
485	Bowling Alleys and Pool Halls	0	1	552	553	1.00
486	Commercial Sports Except Racing	0	1,330	2,142	3,472	1.00
487	Racing and Track Operation	0	3	1,284	1,287	1.00
488	Amusement and Recreation Services-	0	0	8,527	8,527	1.00
489	Membership Sports and Recreation Cl	0	393	2,988	3,381	1.00
490	Doctors and Dentists	0	0	48,491	48,491	1.00
491	Nursing and Protective Care	0	0	4,934	4,934	1.00
492	Hospitals	0	54	35,233	35,287	1.00
493	Other Medical and Health Services	0	5	14,806	14,811	1.00
494	Legal Services	0	13,370	20,013	33,383	1.00
495	Elementary and Secondary Schools	0	0	3,421	3,421	1.00
496	Colleges- Universities- Schools	0	60	4,116	4,176	1.00
497	Other Educational Services	0	231	4,161	4,391	1.00
498	Job Trainings & Related Services	0	313	906	1,219	1.00
499	Child Day Care Services	0	0	6,641	6,641	1.00
500	Social Services- N.E.C.	0	0	4,811	4,811	1.00
501	Residential Care	0	0	1,881	1,881	1.00
502	Other Nonprofit Organizations	0	181	1,584	1,766	1.00
503	Business Associations	0	1,937	2,076	4,013	1.00
504	Labor and Civic Organizations	0	23	3,231	3,254	1.00
505	Religious Organizations	0	0	4,259	4,259	1.00
506	Engineering- Architectural Services	0	3,140	2,450	5,591	1.00
507	Accounting- Auditing and Bookkeeping	0	17,735	7,990	25,725	1.00
508	Management and Consulting Services	0	32,705	9,692	42,397	1.00
509	Research- Development & Testing Ser	0	5,012	1,625	6,637	1.00
510	Local Government Passenger Transit	0	153	673	826	1.00
511	State and Local Electric Utilities	0	2,568	2,702	5,270	1.00
512	Other State and Local Govt Enterprise	0	6,347	10,055	16,402	1.00
513	U.S. Postal Service	0	8,398	5,637	14,035	1.00
514	Federal Electric Utilities	0	0	0	0	1.00
515	Other Federal Government Enterprise	0	814	2,952	3,766	1.00
516	Noncomparable Imports	0	0	0	0	1.00
517	Scrap	0	0	0	0	1.00
518	Used and Secondhand Goods	0	0	0	0	1.00
519	Federal Government - Military	0	0	0	0	1.00
520	Federal Government - Non-Military	0	0	0	0	1.00
521	Commodity Credit Corporation	0	0	0	0	1.00
522	State & Local Government - Education	0	0	48,603	48,603	1.00
523	State & Local Government - Non-Educ	0	0	51,050	51,050	1.00

	<u>Industry</u>	<u>Direct*</u>	<u>Indirect*</u>	<u>Induced*</u>	<u>Total*</u>	<u>Deflator</u>
524	Rest Of The World Industry	0	0	0	0	1.00
525	Domestic Services	0	0	2,868	2,868	1.00
526	Dummy	0	0	0	0	1.00
527	Dummy	0	0	0	0	1.00
528	Inventory Valuation Adjustment	0	0	0	0	1.00
25001	Foreign Trade	0	0	0	0	1.00
28001	Domestic Trade	0	0	0	0	1.00
	Total	2,745,972	777,938	1,197,166	4,721,075	

Note: *1999 Dollars- if results are deflated and aggregated, then deflators displayed are set to 1.0 (results have been deflated)

APPENDIX B
WORKERS MAP



Source: Baylor-Grapevine Medical Center, North Central Texas Council of Governments, ArcView 3.2

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