SUPPLY-CHAIN MANAGEMENT AND MANUFACTURING PERFORMANCE—LESSONS FROM THE 2002 ECONOMIC CENSUS

by

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Abstract: Using data gathered in the 2002 Economic Census, this paper assesses the incidence and possible effects of "outsourcing" (*i.e.*, contracting out to affiliates or other firms) important activities in the manufacturing supply chain. The paper finds that, in the case of many supply-chain activities, manufacturing establishments do not outsource, but perform the activity for themselves. Compared with these non-outsourcers, however, establishments that do outsource are generally larger and pay their employees better. They are also more productive—often far more productive. In addition, for most supply-chain activities, outsourcers own more inventories than non-outsourcers (even allowing for differences in establishment size). However, the association between outsourcing and increased inventory ownership disappears among establishments that manufacture to their business and final retail customers' specifications.

Introduction*

Supply-chain questions added to the 2002 Economic Census reflect the Census Bureau's continuing effort to adjust survey instruments to address changes in the organization of production. The Bureau's ability to identify and quantify such changes affects the accuracy of official estimates of U.S. economic activity and the quality of policy and business decisions based on these estimates.

Responses to the supply-chain questions also illuminate important issues of economic performance. They tell us, for example, about changes in the production process that are likely to spur productivity growth and make the economy more resilient. They support fact-based discussion of "deindustrialization" and "off-shoring"—matters of special importance to the nation's long-term trade policy goals. And, in an era when countries increasingly specialize and compete in stages of production rather than finished products, they tell us about the conditions of industrial competitiveness.

This paper assesses 2002 supply-chain data gathered from manufacturing establishments. It looks first at the separation of activities (*i.e.*, functional differentiation) in the manufacturing supply chain, and compares characteristics of establishments that "outsource" important supply-chain activities with characteristics of establishments that perform such work for themselves. Second, it discusses lessons in the data about the incidence and possible effects of supply-chain coordination (*i.e.*, functional integration).

The Data

On the 2002 Economic Census form mailed to manufacturing establishments, Question 28, Part A identified eight supply-chain activities and asked respondents to indicate whether these had been performed by: (i) the responding establishment, (ii) an affiliated establishment, (iii) another firm, or (iv) not at all. (A copy of Census Question 28 for manufacturers is at: http://help.econ.census.gov/2002forms/mc31117.pdf)

* The analysis and results in this paper have undergone a Census Bureau review more limited in scope than that given to official Census Bureau publications. The paper is released to inform interested parties of ongoing research and to encourage discussion of work in progress. The views espressed are those of the author and not necessarily those of the Census Bureau. E-mail comments to: Jeffrey. L. Mayer@census.gov

¹ In this paper, the term "outsourcing" means contracting out a supply-chain activity to an affiliated establishment or another firm, whether the activity is then performed domestically or abroad. Where the paper refers exclusively to outsourcing overseas, it uses the term "off-shoring."

The eight activities were: (i) product design/engineering; (ii) bundling or kitting (*i.e.*, combining multiple items into a pre-packaged product); (iii) pick and pack (*i.e.*, taking goods from inventory and packaging them to fill orders); (iv) warehousing of finished products; (v) break bulk (*i.e.*, reducing large shipments into smaller portions for customers); (vi) local delivery; (vii) long-distance delivery; and (viii) processing returned merchandise.

Question 28, Part B, asked respondents to answer "Yes" or "No" to nine sub-questions examining the incidence of physical separation between the owners and holders of inventories, the "off-shoring" of stages in the production process, and the frequency with which respondents manufactured to customer specifications.

Tabulations based on responses to Question 28 by roughly 100,000 manufacturing establishments are posted together with this paper as a separate Appendix. These tabulations are the source of all tables included below. Supply-chain questions on the 2002 Economic Census will not be repeated on the 2007 Census.

Caveats: Users of Question 28 data and readers of this paper should understand that the data and tabulations have not been edited to remove occasional invalid responses. In addition, the present paper focuses only on respondents. While these are numerous—roughly two thirds of the total mailing to (147,871) manufacturing establishments—their experience may not be representative of either the non-respondents or the total population of manufacturing establishments.

Also, because respondents reporting on the location of their supply chain activities were free to identify more than one location, conclusions presented in the following text and tables reflect a degree of double counting (*e.g.*, for each supply chain activity, the number of responses indicating where the activity was performed, plus the number of responses stating that the activity was not performed at all, is consistently 5-15 percent greater than the number of respondents).

Major Findings

Functional Differentiation—Incidence and Possible Effects

The present analysis assumes that domestic or foreign outsourcing of supply chain activities represents division of labor and specialization in the production process—developments usually associated with higher productivity. It finds that:

 Many manufacturing establishments do not outsource, but perform for themselves functions also performed by companies elsewhere along the supply chain. More than half of all manufacturing establishments responding to the 2002 Census supply-chain questions on product design, pick and pack, warehousing, local delivery, and returns processing reported providing these services to themselves. [Table 1, column (4).]

Table 1: Outsourcing of Activities in the Manufacturing Supply Chain

Cell values in columns (3), (5), (7), and (9) are based on establishment responses to Question 28A(1) and (2)(a)-(g) in the 2002 Economic Census. These questions address supply-chain activities listed in column (1). Respondents checked boxes indicating whether activities were performed by the responding establishment, by an affiliated establishment, by another company, or not at all. Numbers of responses in each row are activity-specific.

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Location ¹	Total Number of Respondents	Number Reporting Activity	Column (3) as a % of	Number Reporting Activity	Column (5) as a % of	Number Reporting Activity	Column (7) as a % of	Number Reporting Activity	Total Response as a %
Activity	respondents	Performed by this Estab.	Column (2)	Outsourced to an Affiliated Estab.	Column (2)	Outsourced to Another Firm	Column (2)	Not Performed at All	of All Forms Mailed
Product Design	97,414	58,074	59.6	13,487	13.8	13,826	14.2	24,974	65.9
Bundling & Kitting	94,503	40,697	43.1	2,827	3.0	3,523	3.7	51,309	63.9
Pick & Pack	95,770	57,956	60.5	3,520	3.7	2,477	2.6	35,435	64.8
Warehousing	96,624	66,045	68.4	4,807	5.0	4,892	5.1	27,527	65.3
Break Bulk	93,521	31,005	33.2	2,775	3.0	2,061	2.2	59,732	63.2
Local Delivery	96,544	49,417	51.2	4,152	4.3	26,371	27.3	26,049	65.3
Long-Dist. Delivery	96,276	31,110	32.3	5,095	5.3	43,907	45.6	24,006	65.1
Processing of Returns	96,538	65,335	67.7	4,014	4.2	2,390	2.5	28,122	63.3

¹ Because respondents were asked to check all applicable boxes, numerators in the percentage calculations entered in columns (4), (6), and (8) reflect some double counting. In addition, in each row, total responses entered in column (2) do not equal the sum of responses in columns (3), (5), (7), and (9). Full tabulations of aggregate responses to Question 28 sub-questions are included in the Appendix to this paper.

• The tendency to outsource varies by function and is largely bi-modal. At one end of the distribution, 5-7 percent of responding establishments outsource bundling and kitting, pick and pack, break bulk, and returns processing. At the other, 51 percent of respondents outsource long-distance delivery; 31 percent outsource local delivery, and 28 percent outsource product design. [The overall percentage of outsourcers for

each activity listed in Table 1, column (1), is the sum of the percentages entered for that activity in Table 1, columns (6) and (8).]

• In most functional categories, establishments that outsource supply chain activities are larger than non-outsourcers [Table 2, columns (3) and (4)] and pay their employees more [Table 3, columns (3) and (4)]. Establishments that outsource product design and long-distance delivery are narrow exceptions to the general pattern in regard to size; product design is a narrow exception on pay.

Table 2:

Employment-to-Establishment Ratios of Manufacturing Establishments by Supply-Chain Activity and Location of the Activity

In this paper, the employment-to-establishment ratio is the total employment of establishments in each category of activity and location, divided by the number of establishments in that category. Thus, for example, the ratio entered in column (2) of this table in the row on product design (115.4) represents the total employment of manufacturing establishments reporting on the 2002 Economic Census that they supplied their own product design services (6,704,571) divided by the number of such establishments (58,074). Data on establishment employment are from the 2002 Economic Census. Data on numbers of responding establishments by activity are from Table 1 (above). Tabulations of all data underlying this table are included in the Appendix.

(1)	(2)	(3)	(4)	(5)	(6)
Location	Activity	Activity	Activity	All Responding	All
	Performed by	Performed by	Performed by	Establishments	Establishments
	this	an Affiliated	Another	(Includes non-	Receiving
Activity	Establishment ¹	Establishment	Company	performing	Census Forms
				establishments)	
Product	115.4	197.6	106.0	104.4	91.2
Design					
Bundling &	124.5	240.8	197.7	105.0	91.2
Kitting					
Pick & Pack	119.3	235.9	218.2	104.7	91.2
Warehousing	118.4	240.6	211.8	104.9	91.2
Break Bulk	116.2	238.6	223.5	105.0	91.2
Local	82.0	204.3	123.1	103.7	91.2
Delivery					
Long-Dist.	116.3	210.8	113.1	104.9	91.2
Delivery					
Processing of	114.7	237.6	214.2	104.0	91.2
Returns					
1 Call values in a	olumna (2) through	(5) are besed on as	tabliahmant maana	assa to Overtion 20 /	(1) and (2)(a) (a)

¹ Cell values in columns (2) through (5) are based on establishment responses to Question 28A(1) and (2)(a)-(g) in the 2002 Economic Census. Census respondents checked boxes indicating whether activities listed in column (1) of this table were performed by the responding establishment, by an affiliated establishment, by another company, or not at all. Because respondents were asked to check all applicable boxes, ratios entered in the cells of the table reflect some double counting in both numerators and denominators.

Table 3:

Average Annual Payroll per Employee of Manufacturing Establishments, by Supply-Chain Activity and Location of the Activity

In this paper, average annual payroll per employee is the total payroll of establishments in each category of activity and location divided by the total employment of establishments in that category. Thus, for example, the value entered in column (2) of the table in the row on product design (41.4) represents (in \$1000s) the total annual payroll of manufacturing establishments reporting on the 2002 Economic Census that they did product design for themselves (\$277,344,706,000) divided by the total number of those establishments' employees (6,704,571). Data on establishment payroll and employment are from the 2002 Economic Census. Tabulations of all data underlying this table are included in the Appendix.

(Average payroll per employee in \$1000s)

		erage payron per			ı
(1)	(2)	(3)	(4)	(5)	(6)
Location	Activity	Activity	Activity	All Responding	All
	Performed by	Performed by	Performed	Establishments	Establishments
	this	an Affiliated	by Another	(Includes non-	Receiving
Activity	Establishment ¹	Establishment	Company	performing	Census Forms
			1	establishments)	
Product	41.4	41.4	41.2	40.1	39.9
Design					
Bundling &	40.3	43.5	48.5	40.1	39.9
Kitting					
Pick & Pack	39.7	42.6	49.3	40.0	39.9
Warehousing	39.7	41.5	46.5	40.0	39.9
Break Bulk	39.3	40.3	49.5	40.1	39.9
Local	38.7	39.8	42.6	40.0	39.9
Delivery					
Long-Dist.	39.8	40.1	41.4	40.1	39.9
Delivery					
Processing of	39.9	41.7	49.1	40.0	39.9
Returns					

¹Cell values in columns (2) through (5) are based on establishment responses to Question 28A(1) and (2)(a)-(g) in the 2002 Economic Census. Census respondents checked boxes indicating whether activities listed in column (1) of this table were performed by the responding establishment, by an affiliated establishment, by another company, or not at all. Because respondents were asked to check all applicable boxes, averages entered in the cells of the table reflect some double counting in the calculations of both total annual payroll and total employment.

• In every functional category, outsourcers are more productive—often far more productive—than establishments that do the same work in-house. [In Table 4, for each activity (*i.e.*, in each row) compare entries in columns (3) and (4) with the entry in column (2).]

Table 4:

Average Receipts per Employee of Manufacturing Establishments by Supply-Chain Activity and Location of the Activity

Average receipts per employee is the total receipts of establishments in each category of activity and location divided by the total employment of establishments in that category. Thus, for example, the value entered in column (2) of this table in the row on product design (259.1) represents the total annual receipts (in \$1000s) of manufacturing establishments that reported doing product design for themselves (\$1,736,990,082,000) divided by the total number of those establishments' employees (6,704,571). Data on establishment receipts and employment are from the 2002 Economic Census. Tabulations of all data underlying this table are included in the Appendix.

(Average receipts per employee in \$1000s)

(1)	(2)	(3)	(4)	(5)	(6)
Location	Activity Performed by this	Activity Performed by an Affiliated	Activity Performed by Another	All Responding Establishments (Includes non-	All Establishments Receiving
Activity	Establishment ¹	Establishment	Company	performing establishments)	Census Forms
Product Design	259.1	393.2	292.5	286.6	278.7
Bundling & Kitting	267.4	379.9	419.4	288.8	278.7
Pick & Pack	267.1	375.2	458.4	288.0	278.7
Warehousing	278.7	391.6	428.5	288.2	278.7
Break Bulk	279.0	353.2	521.6	289.8	278.7
Local Delivery	243.5	402.4	323.1	288.0	278.7
Long-Dist. Delivery	279.3	387.9	289.5	288.1	278.7
Processing of Returns	267.4	399.1	422.1	286.9	278.7

¹Cell values in columns (2) through (5) are based on establishment responses to Question 28A(1) and (2)(a)-(g) in the 2002 Economic Census. Census respondents checked boxes indicating whether activities listed in column (1) of this table were performed by the responding establishment, by an affiliated establishment, by another company, or not at all. Because respondents were asked to check all applicable boxes, ratios entered in the cells of the table reflect some double counting in the calculations of both total receipts and total employment.

• Functional differentiation is associated with increased inventories. Table 5 shows that, for all supply chain functions identified in the 2002 Economic Census, except product design and long-distance delivery, establishments that reported outsourcing to affiliates or unrelated companies owned larger inventories than establishments that performed the function themselves.

Table 5:

Average Inventories per Establishment of Manufacturing Establishments, by Supply-Chain Activity and Location of the Activity

In this paper, average inventories per establishment is the total end-of-year (2002) inventories (in \$1000s) of establishments in each category of activity and location divided by the number of establishments in that category. Thus, for example, the value entered in column (2) of this table in the row on product design (3,595.5) represents (in \$1000s) the total end of year inventories of manufacturing establishments that reported doing product design for themselves (\$208,806,658,000) divided by the total number of those establishments (58,074)). Data on inventories are from the 2002 Economic Census; data on numbers of establishments are from Table 1 (above). Tabulations of all data underlying this table are included in the Appendix.

(Inventories in \$1000s)

		(III ventories	π φτοσου		
(1)	(2)	(3)	(4)	(5)	(6)
Location ¹	Activity	Activity	Activity	All Responding	All
	Performed by	Performed by	Performed	Establishments	Establishments
	this	an Affiliated	by Another	(Includes non-	Mailed
Activity	Establishment	Establishment	Company	performing	
				establishments)	
Product	3,595.5	6,119.9	3,105.6	3,082.1	2,683.2
Design					
Bundling &	3,780.6	8,973.4	7,413.3	3,106.7	2,683.2
Kitting					
Pick & Pack	3,632.8	8,549.3	9,345.4	3,112.6	2,683.2
Warehousing	3,592.1	8,645.8	9,135.2	3,110.3	2,683.2
_					
Break Bulk	3,662.2	8,007.9	9,349.4	3,124.5	2,683.2
					·
Local	2,188.2	6,637.9	4,040.1	3,064.5	2,683.2
Delivery					·
Long-Dist.	3,517.1	7,074.6	3,464.7	3,100.5	2,683.2
Delivery	,	,	ĺ	ĺ	,
Processing of	3,404.1	8,703.5	8,950.2	3,046.0	2,683.2
Returns	-,	-,		-,	_,
			1		

¹Cell values in columns (2) through (5) are based on establishment responses to Question 28A(1) and (2)(a)-(g) in the 2002 Economic Census. Census respondents checked boxes indicating whether activities listed in column (1) of this table were performed by the responding establishment, by an affiliated establishment, by another company, or not at all. Because respondents were asked to check all applicable boxes, values entered in the cells of the table reflect some double counting in calculation of inventories and numbers of establishments.

Table 6 shows that the positive relationship between outsourcing and inventory ownership persists even after allowing for the fact that outsourcers are larger on average than non-outsourcers. On average, in 2002, outsourcers were 44 percent larger and owned 64 percent more inventories than non-outsourcers.

Differences bet	ween Outsourcers a	ble 6: nd Non-Outsource: Inventories	rs¹—Establishment
Compared with	Weighted Averag	ge Percent Differences ² be and Non-Outsourcers for	
Non-Outsourcers:	All Outsourcers	Outsourcers to Affiliates	Outsourcers to Other Firms
Outsourcers' avg. employment per establishment is greater by:	44 pct.	94 pct.	23 pct.
Outsourcers' avg. inventories per	64 pct.	118 pct.	42 pct.

¹ In this table "non-outsourcers" are establishments responding to the 2002 Economic Census who indicated that they performed for themselves supply chain activities identified in Census Questions 28A(1) and (2)(a)-(g). ² Calculations in this table are weighted averages of the percent differences between establishments that outsourced supply chain activities in 2002 and establishments that did not (*i.e.*, non-outsourcers) for the eight supply-chain activities cited in Census Question 28A. **The weighting method was as follows**: For each activity, the difference between non-outsourcers and outsourcers was calculated in percentage terms. Each percentage calculation was then multiplied by the number of establishments outsourcing the specific activity; and the resulting eight weighted percentages were summed and divided by the total number of outsourcers for all eight activities. Separate weighted averages were calculated for all outsourcers, outsourcers to affiliates, and outsourcers to other firms. Data underlying these calculations are provided in Census Bureau tabulations included in the Appendix.

establishment is greater by:

Note: The finding that functional differentiation may not reduce inventories in the supply chain should not be surprising. The notion that supply chain innovations produce leaner inventories focuses not on differentiation but integration (*e.g.*, just-intime supply relations). As we will see, responses to Question 28 sub-questions on supply chain integration—*e.g.*, sub-questions on whether respondents manufacture to other businesses' or final retail customers' specifications—lend some support to expectations of a connection between supply chain coordination and lean production.

• Only 5.4 percent of respondents to 2002 Census Question 28B(6) for manufacturing establishments reported off-shoring "partially completed products for processing and return to the reporting establishment." Overall, these establishments were larger and somewhat less productive than other

respondents. [In Table 7, columns (5) and (6), compare the employment-to-establishment ratios and average receipts per employee of "Yes" respondents to those of "No" respondents.]

Table 7:
Characteristics of Manufacturing Establishments that "Off-Shore" Partial Fabrication¹—All Manufacturing and Selected Manufacturing Industry Groups

(1)	(2)	(3)	(4)	(:	5)	(6	5)
	Num. of Respon- dents to	Num. of Respon- dents	Col (3) as a % of Col. (2)			Empl	eipts-per- oyee ³
	Census Question 28B(6)	Answering "Yes" to Question 28B(6) ¹		"No" Respondents	"Yes" Respondents	"No" Respondents	"Yes" Respondents
All Manufacturing	99,387	5,341	5.4	98	186	287	281
Apparel Mfg.	2,157	170	7.9	74	138	141	159
Computer & Electronic Prod. Mfg.	5,262	587	11.2	131	317	293	278
Electrical Equip. Appliance & Component Mfg.	2,508	196	7.8	141	228	223	204
Transportation Equipment Mfg.	4,643	377	8.1	235	555	373	362

¹Establishments answering "Yes" to Question 28B(6) of the 2002 Economic Census which asked whether, during 2002, they sent "any partially completed products to a foreign facility for processing that were returned to this establishment for completion." Respondents could answer only "Yes" or "No."

Note: Only one supply chain question in the 2002 Census deals explicitly with off-shoring—Question 28B(6). Because the question asks only about off-shored work returned to the reporting establishment, the responses may understate the actual extent of off-shoring by U.S. manufacturing establishments. In addition, because respondents to Question 28B(6) represent only two thirds of the total 2002 Census mailing to manufacturing establishments, the characteristics of off-shoring establishments reported in Table 7, both for all manufacturing and selected 3-digit NAICS manufacturing industry groups, are not statistically representative of all establishments in those categories.

² In this paper, the employment-to-establishment ratio is the total employment of establishments in each category of respondents divided by the number of establishments in that category. Data in this table and data underlying calculations in the table are drawn from tabulations included in the Appendix to this paper. Data on establishment employment and receipts are from the 2002 Economic Census.

³ In this paper, average receipts per employee is the total receipts of establishments in each category of respondents divided by the total employment of establishments in that category.

Functional Integration—Incidence and Possible Effects

• High positive response rates for Economic Census questions on whether an establishment manufactures to customers' specifications indicate extensive integration along the production chain. Seventy percent of respondents reported that they "manufacture products for another business to their specifications"; while 40 percent reported that they "manufacture products for a final retail customer to their specifications." [See Table 8, column (4).]

Table 8: Characteristics of Establishments that Manufacture to Customers' Specifications [Based on Pageneses to 2002 Economic Consus Questions 28B(7) (0)]

[Based on Responses to 2002 Economic Census Questions 28B(7)-(9)]

(1)	(2)	(3)	(4)	(5	5)	(0	5)	(7	7)
	Num. of Respon- dents	Num. of Respon- dents Answering	Col. (3) as a % of Col. (2)		ment-to- shment tio ¹	p Empl	eceipts er oyee ² 000)	Invento Establi	vg. pries per shment ³
During 2002, did this establishment:		"Yes"		"No" Rspts.	"Yes" Rspts.	"No" Rspts.	"Yes" Rspts.	"No" Rspts.	."Yes" Rspts.
Manufacture products for a government to their specifications? [Question 28B(7)]	99,256	17,877	18.0	96	135	285	291	2,726	4,474
Manufacture products for another business to their specifications? [Question 28B(8)]	99,751	69,473	69.6	99	105	341	264	3,201	2,968
Manufacture products for a final retail customer to their specifications? [Question 28B(9)]	99,161	39,120	39.5	100	109	291	280	3,064	3,014

¹ In this paper, the employment-to-establishment ratio is the total employment of establishments in each category of respondents divided by the number of establishments in that category. Data reported in this table and data underlying calculations in the table are drawn from tabulations included in the Appendix to this paper. Data on establishment employment, receipts, and inventories are from the 2002 Economic Census.

• Respondents who manufacture for "another business" or "final retail customer" to their specifications are slightly larger and hold somewhat smaller inventories,

² In this paper, average receipts per employee is the total receipts of establishments in each category of respondents divided by the total employment of establishments in that category.

³ In this paper, average inventories per establishment is the total end-of-year inventories of establishments in each category of respondents divided by the number of establishments in that category.

than respondents who do not manufacture on these terms.² [See Table (8), column (7).] This finding—especially when compared with the relationship between functional differentiation (*i.e.*, outsourcing) and inventories—is evidence for the view that coordination in the supply chain (*e.g.*, just-in-time supply practices) allows manufacturers to reduce inventories and related costs.

• In contrast to establishments that manufacture for another business or final retail customer, establishments that manufacture for a government, according to government specifications, are substantially larger and own nearly 50 percent more inventory than establishments who do not manufacture on these terms. [Table 8, column (7).]

Using the Supply-Chain Data to Address Other Questions

The supply-chain data gathered in the 2002 Economic Census are a valuable and largely untapped resource for statisticians, economists, and others interested in the structure and operations of U.S. industries and businesses. This paper uses tabulations based on these data to examine the incidence and possible effects of functional differentiation and integration in manufacturing industries. These tabulations, posted as an Appendix to the present paper, may enable researchers to frame and address their own questions about the manufacturing supply chain. The Census Bureau encourages researchers to use the tabulations and invites their comments on the current paper.

² Distinctions here are blurred by the fact that some respondents seem to manufacture for more than one of the categories of customers identified in Table 8. The total number of "Yes" responses on questions 28B(7), 28B(8), and 28B(9)—roughly 126 thousand—substantially exceeds the number of respondents to each of the individual questions, roughly 99 thousand.

 $* A sample of 2002 \ Economic \ Census \ Question \ 28 \ is \ available \ at \ http://help.econ.census.gov/2002 forms/mc31101.pdf$

NAICS	Description	Activity Performed by this Establishment	Activity Performed by Another Establishment	Activity Performed by Another Company	Activity not Performed	Total Establishments Responding to at least One Item on Question	Non – Response on question but Reported other Supply Chain Information	Reported but Supply Chain Question Reply was Invalid	Non-responding Establishments	Total Establishments Mailed
31	Manufacturing	50.074	12.407	12.025	24.047	07.414	5.202	15.050	20.005	145.051
	Establishments	58,074	13,487	13,826	24,947	97,414	5,293	16,069	29,095	147,871
	Employment	6,704,571	2,665,682	1,465,356	1,512,741	10,171,033	304,320	1,099,293	1,904,237	13,478,883
	Annual Payroll (\$1,000)	277,344,706	110,439,231 1.048,091,118	60,341,131 428,587,461	55,343,652 472,742,188	407,770,093 2.915,514,290	10,846,969	44,097,847 338.872,796	74,559,023 424,303,930	537,273,932
	Receipts (\$1,000) End of Year Inventories - 2002 (\$1,000)	1,736,990,082 208,806,658	1,048,091,118	428,587,461	472,742,188	2,915,514,290 300,238,821	77,393,955 7,549,105	338,872,796	424,303,930 52,309,832	3,756,084,971 396,767,485
	Employment to Establishments Ratio	208,800,038	82,339,433 197.6	106.0	40,434,341	104.4	57.5	68.4	52,309,832	91.2
	Average Payroll per Employee (\$1,000)	41.4	41.4	41.2	36.6	40.1	35.6	40.1	39.2	39.9
	Average Receipts per Employee (\$1,000)	259.1	393.2	292.5	312.5	286.6	254.3	308.3	222.8	278.7
	Average End of Year Inventories per Establishment (\$1,000)	3,595.5	6,119.9	3,105.6	1,621.6	3,082.1	1,426.2	2,282.0	1,797.9	2,683.2
	(+1,000)		0,227.7	-,	-,,	2,00211	.,		-,,,,,,	_,
311	Food Manufacturing									
	Employment to Establishments Ratio	149.7	283.0	171.6	94.8	148.1	81.5	63.7	62.2	113.6
	Average Payroll per Employee (\$1,000)	32.2	31.3	33.4	28.5	30.9	29.7	28.1	31.6	30.6
	Average Receipts per Employee (\$1,000)	301.0	400.0	342.4	309.5	327.7	290.1	239.8	289.0	313.5
	Average End of Year Inventories per Establishment (\$1,000)	3,445.7	6,856.1	5,139.9	1,729.8	3,291.5	1,698.8	935.7	1,501.3	2,452.9
312	Beverage and Tobacco Product Manufacturing									
	Employment to Establishments Ratio	114.3	234.6	133.6	81.1	109.7	148.2	118.3	44.9	100.7
	Average Payroll per Employee (\$1,000)	46.6	52.7	40.0	41.5		43.1	49.0	39.8	43.4
	Average Receipts per Employee (\$1,000)	523.1	1,003.3	492.4	691.0	660.9	594.0	1,100.4	363.3	672.8
	Average End of Year Inventories per Establishment (\$1,000)	13,167.7	29,557.8	7,694.1	10,257.1	11,975.5	3,452.8	7,413.1	2,477.5	9,311.0
313	Textile Mills									
	Employment to Establishments Ratio	158.0	233.4	136.4	84.9	142.9	61.9	66.0	89.4	118.3
	Average Payroll per Employee (\$1,000)	30.1	29.6		27.2	29.1	27.6	25.2	27.5	28.6
	Average Receipts per Employee (\$1,000)	183.0	228.3	221.4	152.4	181.7	133.6	159.1	138.2	171.5
	Average End of Year Inventories per Establishment (\$1,000)	3,109.8	4,007.0	3,745.1	1,397.1	2,659.1	1,179.3	985.7	1,511.3	2,137.0
314	Textile Product Mills Employment to Establishments Ratio	96.8	208.8	86.5	49.6	85.7	38.2	44.4	51.2	66.3
	Average Payroll per Employee (\$1,000)	27.7	27.5	27.9	23.7	26.7	23.4	25.7	25.8	26.3
	Average Receipts per Employee (\$1,000) Average Receipts per Employee (\$1,000)	193.8	298.4	149.0	100.3	179.9	121.3	282.7	152.6	187.5
	Average End of Year Inventories per Establishment (\$1,000)	2,455.0	6,377.4	1,679.4	678.0		555.4	263.0	888.0	1,286.1
	Average End of Tear Inventories per Establishment (\$1,000)	2,433.0	0,377.4	1,072.4	078.0	1,777.4	333.4	203.0	000.0	1,200.1
315	Apparel Manufacturing									
515	Employment to Establishments Ratio	81.6	168.0	71.2	60.7	80.9	48.5	45.7	49.2	62.7
	Average Payroll per Employee (\$1,000)	26.5	20.6	19.9	18.2	23.0	19.9	20.9	22.2	22.4
	Average Receipts per Employee (\$1,000)	161.4	192.4	82.7	96.1	143.9	86.7	160.0	136.1	141.3
	Average End of Year Inventories per Establishment (\$1,000)	1,964.8	2,725.6	745.9	493.8	1,424.2	542.5	808.5	1,058.2	1,161.2
	1		,			·			,	•
316	Leather and Allied Product Manufacturing									
	Employment to Establishments Ratio	66.7	148.1	73.1	44.4	70.0	55.2		60.2	62.6
	Average Payroll per Employee (\$1,000)	27.2	22.2	28.0	26.3	26.2	24.0	23.2	27.1	26.2
	Average Receipts per Employee (\$1,000)	169.0	146.7	158.9	186.3	166.6	142.3	117.3	97.3	144.4
	Average End of Year Inventories per Establishment (\$1,000)	1,674.1	2,280.5	1,836.8	688.9	1,519.6	661.0	707.4	982.0	1,246.4
321	Wood Product Manufacturing									
	Employment to Establishments Ratio	81.3	156.6	64.4	55.6	75.7	46.5	41.0	42.7	64.2
	Average Payroll per Employee (\$1,000)	30.9			30.3	30.9	28.6	28.2	28.3	30.3
	Average Receipts per Employee (\$1,000)	150.1	189.5	156.7	199.5	170.9	194.2	172.8	153.5	169.5
	Average End of Year Inventories per Establishment (\$1,000)	1,212.8	2,199.1	921.3	1,522.6	1,396.4	1,021.8	794.8	675.7	1,174.4
322	Paper Manufacturing									
	Employment to Establishments Ratio	138.2	189.0	135.4	92.3	132.3	93.7	72.3	73.0	119.4
	Average Payroll per Employee (\$1,000)	44.6	46.0		42.8	44.4	39.6	41.6	40.6	43.9
	Average Receipts per Employee (\$1,000)	295.9	371.7	289.5	394.0	324.3	244.1	289.8	244.2	315.0
	Average End of Year Inventories per Establishment (\$1,000)	3,930.6	6,285.9	4,122.7	2,979.0	3,961.6	2,400.1	1,649.2	1,882.7	3,486.4
323	Printing and Related Support Activities									

 $* A sample of 2002 \ Economic \ Census \ Question \ 28 \ is \ available \ at \ http://help.econ.census.gov/2002 forms/mc31101.pdf$

NAICS	Description	Activity Performed by this Establishment	by Another	Activity Performed by Another Company	Activity not Performed	Total Establishments Responding to at least One Item on Question	Non – Response on question but Reported other Supply Chain Information	Reported but Supply Chain Question Reply was Invalid	Non-responding Establishments	Total Establishments Mailed
	Employment to Establishments Ratio	69.4	98.1	68.5	69.9		64.6	40.8	41.9	
	Average Payroll per Employee (\$1,000)	37.0	35.9		37.2	37.3	34.8	36.2	38.7	
	Average Receipts per Employee (\$1,000)	140.7	236.0	148.4	135.5	144.7	127.9	131.6	139.6	141.8
	Average End of Year Inventories per Establishment (\$1,000)	701.3	1,522.7	630.0	553.7	659.0	515.7	344.2	346.7	548.0
324	Petroleum and Coal Products Manufacturing									
324	Employment to Establishments Ratio	60.2	74.0	118.4	73.5	62.3	30.7	35.8	39.7	55.1
	Average Payroll per Employee (\$1,000)	62.0	64.3	69.4	63.2	62.0	45.4	55.4	55.0	
	Average Receipts per Employee (\$1,000)	2,399.5	2,405.1	2,960.5	2,715.4	2,386.5	606.0	1,561.1	1,136.4	2,163.2
	Average End of Year Inventories per Establishment (\$1,000)	10,214.8	11,911.0	21,553.6	12,160.3	9,941.3	1,619.5	4,343.8	1,987.3	
325	Chemical Manufacturing	140.2	140.2	222.7	50.5	110.1	7.0	70.0	£1.0	07.0
	Employment to Establishments Ratio	140.3	149.3	233.7	52.5	112.1	76.2	70.0	61.8	97.8
	Average Payroll per Employee (\$1,000)	54.8	53.1	57.1	48.9 507.3	53.0	52.8	49.8 444.5	51.6 450.9	
	Average Receipts per Employee (\$1,000)	549.8	782.5	565.9		576.6	611.0		450.9 3,030.7	5,655.1
	Average End of Year Inventories per Establishment (\$1,000)	8,439.2	10,119.0	11,585.3	2,678.3	6,737.9	6,053.2	2,762.2	3,030.7	5,055.1
326	Plastics and Rubber Products Manufacturing									
	Employment to Establishments Ratio	115.6	169.3	109.1	60.4		56.9	66.9	67.6	
	Average Payroll per Employee (\$1,000)	34.6	34.9	32.0	31.5	33.8	29.5	29.8	31.9	33.3
	Average Receipts per Employee (\$1,000)	177.6	215.0	162.1	157.5	183.9	144.5	140.4	167.5	
	Average End of Year Inventories per Establishment (\$1,000)	2,000.0	2,961.4	1,545.6	783.2	1,840.9	741.3	1,064.0	938.8	1,589.7
327	Nonmetallic Mineral Product Manufacturing									
32/	Employment to Establishments Ratio	64.8	65.1	63.2	28.0	49.4	35.3	31.6	38.0	45.0
	Average Payroll per Employee (\$1,000)	37.8	39.7	36.0	38.1	37.8	34.9	35.4	37.6	
	Average Receipts per Employee (\$1,000)	193.2	245.8	170.0	219.2	205.1	190.8	186.7	187.6	
	Average End of Year Inventories per Establishment (\$1,000)	1,459.1	1,681.6	1,302.4	533.5	1,070.6	577.3	526.8	646.6	
	Average End of Teal inventories per Establishment (\$1,000)	1,439.1	1,001.0	1,302.4	333.3	1,070.0	311.3	320.8	040.0	720.7
331	Primary Metal Manufacturing									
	Employment to Establishments Ratio	196.1	231.0	139.6	90.2	151.9	113.0	93.8	121.9	140.6
	Average Payroll per Employee (\$1,000)	43.9	46.5	40.3	43.2	43.9	42.3	47.2	42.7	43.8
	Average Receipts per Employee (\$1,000)	289.1	312.8	241.6	325.4	292.3	308.8	278.9	254.8	
	Average End of Year Inventories per Establishment (\$1,000)	8,271.6	7,312.6	4,624.3	4,150.8	6,132.8	4,998.3	4,812.1	4,327.2	5,664.4
332	Fabricated Metal Product Manufacturing									
	Employment to Establishments Ratio	79.0	120.6	62.5	40.8	65.4	44.3	43.0	48.8	59.9
	Average Payroll per Employee (\$1,000)	37.9	36.5	38.2	36.1	37.2	36.8	35.5	37.1	37.1
	Average Receipts per Employee (\$1,000)	168.3	243.1	161.8	144.2	168.6	166.1	148.9	153.9	165.1
	Average End of Year Inventories per Establishment (\$1,000)	1,829.7	3,250.5	1,223.9	671.6	1,404.0	1,066.0	890.7	908.4	1,259.7
333	Machinery Manufacturing									
333	Employment to Establishments Ratio	94.7	154.1	81.8	39.9	89.2	41.2	58.2	62.6	80.8
-	Average Payroll per Employee (\$1,000)	44.2	38.8	43.1	37.2	43.0	39.3	42.4	42.7	
	Average Receipts per Employee (\$1,000)	220.1	297.1	227.8	167.6	223.2	178.2	173.4	238.9	222.2
	Average End of Year Inventories per Establishment (\$1,000)	3,474.1	5,564.5	2,850.4	1,178.0	3,190.0	904.9	1,750.9	2,450.9	2,891.9
334	Computer and Electronic Product Manufacturing									
	Employment to Establishments Ratio	166.8	367.1	125.6	70.0	155.2	55.5	139.0	131.8	145.9
	Average Payroll per Employee (\$1,000)	52.7	52.9	48.3	37.7	51.0	38.5	52.4	53.0	
	Average Receipts per Employee (\$1,000)	278.1	437.3	276.2	385.0	289.8	132.8	368.5	258.4	289.1
	Average End of Year Inventories per Establishment (\$1,000)	6,134.9	12,919.7	4,209.5	2,736.2	5,696.7	1,171.8	4,828.6	4,797.3	5,303.5
335	Electrical Equipment, Appliance, and Component Manufacturing									
	Employment to Establishments Ratio	152.1	274.9	133.7	61.3	148.7	50.4	87.7	96.2	131.5
	Average Payroll per Employee (\$1,000)	37.1	37.1	36.5	33.5	36.7	33.4	35.3	37.1	36.6
	Average Receipts per Employee (\$1,000)	214.6	264.1	221.9	256.8	221.2	218.0	170.0	190.0	
	Average End of Year Inventories per Establishment (\$1,000)	3,713.7	6,373.6	3,589.7	2,404.7	3,604.6	1,680.5	2,400.7	2,570.8	3,265.0
226	The second of the Province of Manufact.									
336	Transportation Equipment Manufacturing					1				1

* A sample of 2002 Economic Census Question 28 is available at http://help.econ.census.gov/2002forms/mc31101.pdf

NAICS	Description	Activity Performed by this Establishment	Activity Performed by Another Establishment	Activity Performed by Another Company	Activity not Performed	Total Establishments Responding to at least One Item on Question	Non – Response on question but Reported other Supply Chain Information	Reported but Supply Chain Question Reply was Invalid	Non-responding Establishments	Total Establishments Mailed
	Employment to Establishments Ratio	260.9	504.6	279.8	138.4	264.2	102.5	308.1	133.9	241.
	Average Payroll per Employee (\$1,000)	46.5	52.3	48.8	53.0	48.8	47.2	52.8	47.7	49.
	Average Receipts per Employee (\$1,000)	282.7	467.7	359.9	516.0	374.3	451.9	525.3	272.9	386.
	Average End of Year Inventories per Establishment (\$1,000)	9,401.2	13,613.8	9,107.3	2,915.3	7,992.4	3,449.2	21,686.1	5,839.8	8,974.
337	Furniture and Related Product Manufacturing									
551	Employment to Establishments Ratio	96.1	176.2	83.5	44.6	93.0	29.9	46.6	62.9	76.
	Average Payroll per Employee (\$1,000)	30.6	28.1	30.1	28.7	30.0	28.8	27.1	29.6	29.
	Average Receipts per Employee (\$1,000)	123.9	177.7	128.7	119.8	132.5	137.4	127.6	139.1	133.
	Average End of Year Inventories per Establishment (\$1,000)	1,324.2	2,577.0	1,267.0	496.7	1,264.2	341.8	612.6	928.3	1,050.
339	Miscellaneous Manufacturing Employment to Establishments Ratio	90.6	169.0	73.9	42.4	82.1	34.8	41.9	56.5	69.
	Average Payroll per Employee (\$1,000)	39.1	37.8	39.2	33.1	38.1	34.3	38.3	36.1	37.
		183.6	254.4		151.6	184.6	158.6	162.6	169.2	179.
	Average Receipts per Employee (\$1,000) Average End of Year Inventories per Establishment (\$1,000)	2.447.9	4,316.4		785.5	2,128.5	876.0	908.7	1,370.8	1.768.
	Average End of Tear Inventories per Establishment (\$1,000)	,				,	870.0	908.7	1,5/0.8	1,768.
	T.	Questio	n 28.A.2.a. Bundling	or kitting (combining	multiple items into	a prepackaged product)				
31	Manufacturing Establishments	40,697	2,827	3,523	51,309	94,503	8.204	16,069	29.095	147,87
		5,067,254	680,792	696,650	4,347,688	9,920,093	555,260	1,099,293	1,904,237	13,478,88
	Employment Annual Payroll (\$1,000)	204,453,284	29,596,535	33,798,166	170,864,207	398,150,022	20,467,040	44,097,847	74,559,023	537,273,93
	Receipts (\$1,000)	1,354,852,867	258,630,387	292,192,631	1,300,155,839	2,864,443,472	128,464,773	338,872,796	424,303,930	3,756,084,97
	End of Year Inventories - 2002 (\$1,000)	153,859,493	25,367,899	26,117,047	123,468,546	293,587,946	14,199,980	36,669,727	52,309,832	396,767,48
	Employment to Establishments Ratio	124.5	240.8		84.7	105.0	67.7	68.4	65.4	91.
	Average Payroll per Employee (\$1,000)	40.3	43.5		39.3	40.1	36.9	40.1	39.2	39.
	Average Receipts per Employee (\$1,000)	267.4	379.9	419.4	299.0	288.8	231.4	308.3	222.8	278.
	Average End of Year Inventories per Establishment (\$1,000)	3,780.6	8,973.4	7,413.3	2,406.4	3,106.7	1,730.9	2,282.0	1,797.9	2,683.
311	Food Manufacturing Employment to Establishments Ratio	167.3	268.6	244.9	129.9	148.9	83.3	63.7	62.2	113.
	Average Payroll per Employee (\$1,000)	31.4	32.6		29.8	30.9	29.0	28.1	31.6	30.
	Average Receipts per Employee (\$1,000) Average Receipts per Employee (\$1,000)	315.7	435.0	534.9	326.3	328.5	280.8	239.8	289.0	313.
	Average End of Year Inventories per Establishment (\$1,000)	3,862.2	9,079.7		2,671.9	3,312.4	1,708.9	935.7	1,501.3	2,452.
	(*,000)		.,,,,,,	53,72	2,0.20	0,012.1	2,1.000	74400		3,102
312	Beverage and Tobacco Product Manufacturing									
	Employment to Establishments Ratio	132.2	183.5	128.1	88.4	109.9	148.6	118.3	44.9	100.
	Average Payroll per Employee (\$1,000)	41.2	49.4		44.5	43.0	43.7	49.0	39.8	43.
	Average Receipts per Employee (\$1,000)	612.9	1,748.0 38,491.9	641.6 19,570.1	615.6 9,996.1	659.7 11,919.9	601.3 3,622.3	1,100.4 7,413.1	363.3 2,477.5	672. 9,311.
	Average End of Year Inventories per Establishment (\$1,000)	12,263.1	38,491.9	19,570.1	9,990.1	11,919.9	3,022.3	7,413.1	2,411.3	9,311.
313	Textile Mills									
	Employment to Establishments Ratio	150.1	203.4	127.0	145.1	145.0	70.1	66.0	89.4	118.
	Average Payroll per Employee (\$1,000)	30.4	32.4		28.9	29.1	28.3	25.2	27.5	28.
	Average Receipts per Employee (\$1,000)	191.6	265.6	319.5	176.6	182.0	149.1	159.1	138.2	171.
	Average End of Year Inventories per Establishment (\$1,000)	3,119.5	5,285.0	4,575.2	2,535.5	2,672.2	1,575.7	985.7	1,511.3	2,137.
314	Textile Product Mills									
511	Employment to Establishments Ratio	97.4	126.6	132.4	76.9	85.4	52.1	44.4	51.2	66.
	Average Payroll per Employee (\$1,000)	25.8	23.7		27.4		26.4	25.7	25.8	26.
	Average Receipts per Employee (\$1,000)	168.1	293.6		187.4		146.4	282.7	152.6	187.
	Average End of Year Inventories per Establishment (\$1,000)	2,518.6	7,235.4	3,279.1	1,523.6	1,990.1	858.8	263.0	888.0	1,286.
215	A IM									
315	Apparel Manufacturing	404.0	100	2	50.0	00.0		45 =	4.0.00	
	Employment to Establishments Ratio	101.9 23.6	178.4	64.6 27.1	58.3 21.7	80.8 22.7	60.4	45.7	49.2 22.2	62.
	Average Payroll per Employee (\$1,000)		21.5					20.9		22.
	Average Receipts per Employee (\$1,000) Average End of Year Inventories per Establishment (\$1,000)	140.6 1,856.4	173.6 3,031.5	212.8 2,437.9	110.7 900.5	137.6 1,370.4	164.9 1,175.5	160.0 808.5	136.1 1.058.2	141. 1,161.
	Total III of Louisian (#1,000)	1,050.4	5,051.5	2,137.9	700.5	2,370.4	1,175.5	300.5	1,030.2	1,101.

 $* A sample of 2002 \ Economic \ Census \ Question \ 28 \ is \ available \ at \ http://help.econ.census.gov/2002 forms/mc31101.pdf$

NAICS	Description	Activity Performed by this Establishment	Activity Performed by Another Establishment	Activity Performed by Another Company	Activity not Performed	Total Establishments Responding to at least One Item on Question	Non – Response on question but Reported other Supply Chain Information	Reported but Supply Chain Question Reply was Invalid	Non-responding Establishments	Total Establishments Mailed
	Employment to Establishments Ratio	70.3	158.2	93.5	59.7	70.0	60.2	33.2	60.2	62.6
	Average Payroll per Employee (\$1,000)	26.1	22.3	36.3	26.8	26.2	25.0	23.2	27.1	26.2
	Average Receipts per Employee (\$1,000)	139.8	143.7	223.7	198.1	168.9	128.2	117.3	97.3	144.4
-	Average End of Year Inventories per Establishment (\$1,000)	1,640.7	2,273.6	2,626.1	1,342.1	1,554.2	647.6	707.4	982.0	1,246.4
321	Wood Product Manufacturing									
	Employment to Establishments Ratio	82.4	86.3	53.8	71.2	76.1	48.8	41.0	42.7	64.2
	Average Payroll per Employee (\$1,000)	31.5	31.2	30.8	30.4	30.9	28.4	28.2	28.3	30.3
	Average Receipts per Employee (\$1,000)	171.0	206.9	173.3	172.3	172.1	166.9	172.8	153.5	169.5
	Average End of Year Inventories per Establishment (\$1,000)	1,539.8	1,572.0	847.5	1,324.2	1,415.2	914.7	794.8	675.7	1,174.4
322	Paper Manufacturing									
	Employment to Establishments Ratio	141.8	195.4	178.1	123.5	133.8	88.8	72.3	73.0	119.4
	Average Payroll per Employee (\$1,000)	42.6	42.3	46.0	46.2	44.5	40.5	41.6	40.6	43.9
	Average Receipts per Employee (\$1,000)	313.8	333.5	372.9	331.2	324.8	267.4	289.8	244.2	315.0
	Average End of Year Inventories per Establishment (\$1,000)	4,130.5	5,867.3	6,068.3	3,771.8	4,031.1	2,077.7	1,649.2	1,882.7	3,486.4
323	Printing and Related Support Activities									
223	Employment to Establishments Ratio	83.6	129.9	76.8	58.6	71.3	60.2	40.8	41.9	60.8
	Average Payroll per Employee (\$1,000)	37.2	41.0	42.9	36.8	37.3	34.2	36.2	38.7	37.2
	Average Receipts per Employee (\$1,000)	145.8	186.1	161.8	139.0		125.2	131.6	139.6	141.8
	Average End of Year Inventories per Establishment (\$1,000)	823.3	1,662.9	792.4	490.5	663.6	484.8	344.2	346.7	548.0
324	Petroleum and Coal Products Manufacturing									
	Employment to Establishments Ratio	55.9	75.9	37.5	63.8	62.4	34.7	35.8	39.7	55.1
	Average Payroll per Employee (\$1,000)	52.8	53.2	51.6	64.0	62.2	44.4	55.4	55.0	60.5
	Average Receipts per Employee (\$1,000)	1,295.2	1,390.8	407.8	2,615.0	2,403.5	553.9	1,561.1	1,136.4	2,163.2
	Average End of Year Inventories per Establishment (\$1,000)	4,903.0	10,039.6	1,570.5	11,126.7	10,033.8	1,391.3	4,343.8	1,987.3	7,895.7
325	Chemical Manufacturing									
	Employment to Establishments Ratio	134.7	268.2	285.2	86.8	112.3	83.0	70.0	61.8	97.8
	Average Payroll per Employee (\$1,000)	51.7	54.2	51.5	55.7	53.1	51.4	49.8	51.6	52.6
	Average Receipts per Employee (\$1,000)	538.0	706.2	699.8	581.3	575.0	632.4	444.5	450.9	553.7
	Average End of Year Inventories per Establishment (\$1,000)	7,750.6	19,007.7	17,738.3	5,170.7	6,632.7	7,831.4	2,762.2	3,030.7	5,655.1
326	Plastics and Rubber Products Manufacturing									
	Employment to Establishments Ratio	119.7	177.9	170.0	99.8	109.8	82.5	66.9	67.6	97.5
	Average Payroll per Employee (\$1,000)	33.3	35.8	36.7	34.1	33.8	32.4	29.8	31.9	33.3
	Average Receipts per Employee (\$1,000)	185.0	222.0	226.3	180.9	183.9	169.1	140.4	167.5	179.0
	Average End of Year Inventories per Establishment (\$1,000)	2,127.7	3,770.0	3,795.4	1,570.4	1,846.5	1,175.1	1,064.0	938.8	1,589.7
327	Nonmetallic Mineral Product Manufacturing									
	Employment to Establishments Ratio	67.0	90.7	128.8	41.2	49.5	37.9	31.6	38.0	45.0
	Average Payroll per Employee (\$1,000)	37.0	35.7	34.7	38.7	37.9	34.8	35.4	37.6	37.5
	Average Receipts per Employee (\$1,000)	192.0	204.8	221.2	218.9	207.2	157.4	186.7	187.6	200.7
	Average End of Year Inventories per Establishment (\$1,000)	1,542.0	1,857.3	3,382.8	866.7	1,076.8	618.8	526.8	646.6	920.9
331	Primary Metal Manufacturing									
	Employment to Establishments Ratio	155.9	187.5	347.6	147.1	151.8	127.9	93.8	121.9	140.6
	Average Payroll per Employee (\$1,000)	41.3	40.5	48.4	45.0	43.9	41.8	47.2	42.7	43.8
	Average Receipts per Employee (\$1,000)	259.2	350.5	348.8	308.4	294.7	259.7	278.9	254.8	286.1
	Average End of Year Inventories per Establishment (\$1,000)	6,077.2	6,001.3	22,120.2	6,009.2	6,175.5	4,706.3	4,812.1	4,327.2	5,664.4
332	Fabricated Metal Product Manufacturing									
	Employment to Establishments Ratio	84.5	160.9	94.9	52.7	65.4	52.8	43.0	48.8	59.9
	Average Payroll per Employee (\$1,000)	36.8	40.1	40.1	37.4		37.8	35.5	37.1	37.1
	Average Receipts per Employee (\$1,000)	177.4	210.5	229.0	158.2	169.3	154.8	148.9	153.9	165.1
	Average End of Year Inventories per Establishment (\$1,000)	2,077.9	3,824.1	3,066.4	965.4	1,402.8	1,216.0	890.7	908.4	1,259.7
333	Machinery Manufacturing									
555	Procumery Prantifacturing	1				ı				

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	Employment to Establishments Ratio	111.1	212.4	185.4	62.3		61.6		62.6	80.
	Average Payroll per Employee (\$1,000)	42.7	41.3	47.5	43.4		45.2		42.7	42.
	Average Receipts per Employee (\$1,000)	235.4	264.1	391.8	189.5	223.3	209.6	173.4	238.9	222.
	Average End of Year Inventories per Establishment (\$1,000)	4,204.4	8,888.9	8,295.3	1,914.4	3,209.7	2,074.5	1,750.9	2,450.9	2,891.
334	Computer and Electronic Product Manufacturing									
	Employment to Establishments Ratio	174.5	438.3	293.3	109.7	157.5	82.4	139.0	131.8	145.
	Average Payroll per Employee (\$1,000)	51.5	55.1	62.2	48.2	51.1	43.9	52.4	53.0	51.
	Average Receipts per Employee (\$1,000)	310.2	510.9	316.4	244.1	292.9	170.1	368.5	258.4	289.
	Average End of Year Inventories per Establishment (\$1,000)	6,181.8	13,723.8	8,642.9	4,933.7	5,816.0	2,241.0	4,828.6	4,797.3	5,303.
335	Electrical Equipment, Appliance, and Component Manufacturing									
	Employment to Establishments Ratio	151.6	368.9	334.9	128.3	149.3	95.7	87.7	96.2	131.
	Average Payroll per Employee (\$1,000)	37.0	42.2	37.2	35.4		35.2	35.3	37.1	36.
	Average Receipts per Employee (\$1,000)	218.9	275.7	256.2	219.6	221.9	203.8	170.0	190.0	214.
	Average End of Year Inventories per Establishment (\$1,000)	3,924.6	8,975.6	10,347.1	2,594.8	3,616.5	2,544.1	2,400.7	2,570.8	3,265.
336	Transportation Equipment Manufacturing									
- 20	Employment to Establishments Ratio	288.3	509.6	752.6	225.4	269.3	125.5	308.1	133.9	241.
	Average Payroll per Employee (\$1,000)	48.1	53.0	60.9	47.9		41.2		47.7	49.
	Average Receipts per Employee (\$1,000)	330.0	367.3	593.1	389.6		306.7	525.3	272.9	386.
	Average End of Year Inventories per Establishment (\$1,000)	10,268.6	22,784.3	23,810.4	5,925.8		3,115.2	21,686.1	5,839.8	8,974.
337	Furniture and Related Product Manufacturing									
33/	Employment to Establishments Ratio	112.8	175.6	97.2	78.7	92.7	58.3	46.6	62.9	76.
	Average Payroll per Employee (\$1,000)	29.9	30.3	31.8	29.1		35.5		29.6	29.
	Average Receipts per Employee (\$1,000) Average Receipts per Employee (\$1,000)	149.2	135.6	143.9	119.2		124.0		139.1	133
	Average End of Year Inventories per Establishment (\$1,000)	1,637.2	2,738.4	1,973.0	1,026.8		633.7	612.6	928.3	1,050
339	Miscellaneous Manufacturing									
337	Employment to Establishments Ratio	100.9	263.2	127.8	55.8	83.0	43.9	41.9	56.5	69.
	Average Payroll per Employee (\$1,000)	38.8	42.9	42.0	36.7		33.7		36.1	37.
	Average Receipts per Employee (\$1,000)	195.1	269.7	245.8	150.2		160.7	162.6	169.2	179.
	Average End of Year Inventories per Establishment (\$1,000)	2,838.9	10,163.9	4,117.7	1,112.5		921.2		1,370.8	1,768.
		Question	28.A.2.b. Pick and pa	ck (taking goods from i	inventory and pac	ckaging them to fill orders)				
31	Manufacturing									
	Establishments	57,956	3,520	2,477	35,435	95,770	6,937	16,069	29,095	147,87
	Employment	6,912,730	830,447	540,387	2,617,793	10,023,082	452,271	1,099,293	1,904,237	13,478,88
	Annual Payroll (\$1,000)	274,697,366	35,367,025	26,629,274	105,625,929	401,196,836	17,420,226	44,097,847	74,559,023	537,273,93
	Receipts (\$1,000)	1,846,366,075	311,576,335	247,717,651	849,327,658		106,502,580		424,303,930	3,756,084,97
	End of Year Inventories - 2002 (\$1,000)	210,544,399	30,093,374	23,148,432	71,530,556		9,697,794		52,309,832	396,767,48
	Employment to Establishments Ratio	119.3	235.9	218.2	73.9		65.2	68.4	65.4	91.
	Average Payroll per Employee (\$1,000)	39.7	42.6	49.3	40.3		38.5	40.1	39.2	39.
	Average Receipts per Employee (\$1,000)	267.1	375.2	458.4	324.4		235.5	308.3	222.8	278.
	Average End of Year Inventories per Establishment (\$1,000)	3,632.8	8,549.3	9,345.4	2,018.6	3,112.6	1,398.0	2,282.0	1,797.9	2,683.
311	Food Manufacturing									
	Employment to Establishments Ratio	161.8	225.8	250.9	106.7		81.3		62.2	113.
	Average Payroll per Employee (\$1,000)	30.9	33.2	35.4	29.7		30.7	28.1	31.6	30.
	Average Receipts per Employee (\$1,000)	323.5	447.0	478.8	318.6		283.9		289.0	313.
			7,560.9	10,508.1	2,161.4	3,298.2	1,551.9	935.7	1,501.3	2,452.
	Average End of Year Inventories per Establishment (\$1,000)	3,605.5	7,500.7							
312		3,005.5	1,300.5							
312	Average End of Year Inventories per Establishment (\$1,000)	3,605.5	191.2	105.8	84.8	111.1	134.4	118.3	44.9	100.
312	Average End of Year Inventories per Establishment (\$1,000) Beverage and Tobacco Product Manufacturing		,	105.8 51.3	84.8 41.5		134.4 43.7	118.3	44.9 39.8	
312	Average End of Year Inventories per Establishment (\$1,000) Beverage and Tobacco Product Manufacturing Employment to Establishments Ratio Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000)	119.7 44.0 564.5	191.2 38.7 1,019.6	51.3 484.3	41.5 794.4	43.0 664.3	43.7 548.3	49.0 3 1,100.4	39.8 363.3	43. 672.
312	Average End of Year Inventories per Establishment (\$1,000) Beverage and Tobacco Product Manufacturing Employment to Establishments Ratio Average Payroll per Employee (\$1,000)	119.7 44.0	191.2 38.7	51.3	41.5	43.0 664.3	43.7	49.0	39.8	43.

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	Employment to Establishments Ratio	141.1	241.1	105.2	138.6	143.2	71.7	66.0	89.4	118.3
	Average Payroll per Employee (\$1,000)	30.2	29.3	39.0	28.3	29.2	26.9	25.2	27.5	28.6
	Average Receipts per Employee (\$1,000)	185.1	220.5	332.9	172.4	182.0	139.8	159.1	138.2	171.5
	Average End of Year Inventories per Establishment (\$1,000)	3,048.1	5,423.7	4,149.2	1,703.6	2,665.1	1,343.2	985.7	1,511.3	2,137.0
314	Textile Product Mills									
	Employment to Establishments Ratio	93.9	105.8	158.7	69.4	86.0	40.8	44.4	51.2	66.3
	Average Payroll per Employee (\$1,000)	26.2	26.9	34.9	27.6		25.6	25.7	25.8	26.3
	Average Receipts per Employee (\$1,000)	160.9	263.5	226.1	219.3	180.1	127.5	282.7	152.6	187.5
	Average End of Year Inventories per Establishment (\$1,000)	2,413.7	2,990.4	3,229.8	1,017.9	1,982.2	680.0	263.0	888.0	1,286.1
315	Apparel Manufacturing									
	Employment to Establishments Ratio	86.6	161.3	53.9	54.4	80.4	56.0	45.7	49.2	62.7
	Average Payroll per Employee (\$1,000)	25.3	20.8	29.4	17.7	23.1	19.7	20.9	22.2	22.4
	Average Receipts per Employee (\$1,000)	153.7	170.3	215.6	77.3	141.5	130.1	160.0	136.1	141.3
	Average End of Year Inventories per Establishment (\$1,000)	2,028.7	1,774.0	1,944.9	346.1	1,429.3	597.3	808.5	1,058.2	1,161.2
216	Loother and Allied Product Manufacturing									
316	Leather and Allied Product Manufacturing Employment to Establishments Ratio	66.5	165.0	78.4	54.0	70.6	47.1	33.2	60.2	62.6
	Average Payroll per Employee (\$1,000)	26.8	22.7	31.3	25.8	26.1	25.2	23.2	27.1	26.2
	Average Receipts per Employee (\$1,000) Average Receipts per Employee (\$1,000)	165.5	141.9	186.1	192.4	168.4	101.8	117.3	97.3	144.4
	Average End of Year Inventories per Establishment (\$1,000)	1,578.4	3,077.3	1,970.1	923.0	1,540.9	395.7	707.4	982.0	1,246.4
	Average End of Teal inventories per Establishment (\$1,000)	1,576.4	3,077.3	1,770.1	723.0	1,540.7	3/3.1	707.4	762.0	1,240.4
321	Wood Product Manufacturing									
	Employment to Establishments Ratio	85.3	107.8	71.9	64.8	76.1	48.1	41.0	42.7	64.2
	Average Payroll per Employee (\$1,000)	31.8	32.1	31.9	29.6	31.0	27.8	28.2	28.3	30.3
	Average Receipts per Employee (\$1,000)	183.9	171.1	188.1	153.9	172.8	155.8	172.8	153.5	169.5
	Average End of Year Inventories per Establishment (\$1,000)	1,759.8	2,105.4	1,107.3	1,009.2	1,423.1	823.8	794.8	675.7	1,174.4
322	Paper Manufacturing									
	Employment to Establishments Ratio	141.6	249.6	241.2	119.6	133.8	86.5	72.3	73.0	119.4
	Average Payroll per Employee (\$1,000)	44.1	45.8	48.6	45.0		40.0	41.6	40.6	43.9
	Average Receipts per Employee (\$1,000)	316.7	365.2	391.4	331.8	324.9	257.9	289.8	244.2	315.0
	Average End of Year Inventories per Establishment (\$1,000)	4,573.7	7,796.1	9,309.0	3,225.5	4,047.0	1,679.5	1,649.2	1,882.7	3,486.4
323	Printing and Related Support Activities									
	Employment to Establishments Ratio	80.3	143.4	80.3	59.7	70.9	62.9	40.8	41.9	60.8
	Average Payroll per Employee (\$1,000)	36.3	39.6	43.7	38.1	37.3	34.5	36.2	38.7	37.2
	Average Receipts per Employee (\$1,000)	143.3	177.6	182.6	141.7	144.6	129.4	131.6	139.6	141.8
	Average End of Year Inventories per Establishment (\$1,000)	851.8	1,831.4	1,096.3	445.6	660.4	508.5	344.2	346.7	548.0
324	Petroleum and Coal Products Manufacturing									
324	Employment to Establishments Ratio	62.4	139.5	49.3	63.2	62.5	31.0	35.8	39.7	55.1
	Average Payroll per Employee (\$1,000)	53.4	59.7	50.9	65.2	62.1	44.4	55.4	55.0	60.5
	Average Receipts per Employee (\$1,000)	1,170.6	1,300.5	467.9	2,826.0	2,392.3	559.0	1,561.1	1,136.4	2,163.2
	Average End of Year Inventories per Establishment (\$1,000)	6,051.0	15,671.6	2,728.9	11,655.8	10,010.8	1,074.7	4,343.8	1,987.3	7,895.7
225	CI : IV C : :									
325	Chemical Manufacturing Employment to Establishments Ratio	118.1	242.3	246.1	71.0	111.6	88.4	70.0	61.8	97.8
	Average Payroll per Employee (\$1,000)	52.5	56.5	57.4	54.0		53.6	49.8	51.6	52.6
	Average Receipts per Employee (\$1,000)	544.2	721.5	761.8	624.2	578.3	561.2	444.5	450.9	553.7
	Average End of Year Inventories per Establishment (\$1,000)	7,184.5	16,875.5	18,832.7	3,812.2	6,772.1	5,401.4	2,762.2	3,030.7	5,655.1
226	District and Delta and Delta and March and State of the S									
326	Plastics and Rubber Products Manufacturing Employment to Establishments Ratio	116.5	193.1	224.8	89.5	110.2	64.2	66.9	67.6	97.5
	Average Payroll per Employee (\$1,000)	33.6	193.1 37.0	40.5	33.7	33.8	31.7	29.8	31.9	33.3
	Average Receipts per Employee (\$1,000) Average Receipts per Employee (\$1,000)	185.1	213.6	241.3	172.4		161.3	140.4	167.5	179.0
	Average End of Year Inventories per Establishment (\$1,000)	2,064.5	3,864.7	5,090.6	1,219.9	1,849.8	867.5	1,064.0	938.8	1,589.7
327	Nonmetallic Mineral Product Manufacturing			i l		1	i l			

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	Employment to Establishments Ratio	66.7	152.8	112.9	33.8	49.2	41.2	31.6	38.0	45.0
	Average Payroll per Employee (\$1,000)	37.2	38.4	36.7	39.4	38.0	33.6	35.4	37.6	37.5
	Average Receipts per Employee (\$1,000)	196.0	237.4	170.4	226.1	207.5	148.1		187.6	200.7
	Average End of Year Inventories per Establishment (\$1,000)	1,565.0	4,375.9	2,531.8	648.0	1,076.0	563.3	526.8	646.6	920.9
331	Primary Metal Manufacturing									
	Employment to Establishments Ratio	168.2	193.4	336.9	123.5	150.9	136.9		121.9	140.6
	Average Payroll per Employee (\$1,000)	43.4	42.2	49.8	45.0	43.9	42.1	47.2	42.7	43.8
	Average Receipts per Employee (\$1,000)	276.9	351.2	392.3	325.5	294.1	260.9		254.8	286.1
	Average End of Year Inventories per Establishment (\$1,000)	6,990.4	8,418.2	17,743.9	4,784.2	6,156.9	4,474.9	4,812.1	4,327.2	5,664.4
332	Fabricated Metal Product Manufacturing									
	Employment to Establishments Ratio	80.3	149.3	100.2	46.3	65.6	47.8		48.8	59.9
	Average Payroll per Employee (\$1,000)	37.0	39.8	41.6	37.6	37.2	37.5		37.1	37.1
	Average Receipts per Employee (\$1,000)	175.8	231.4	314.8	151.6	169.4	148.5	148.9	153.9	165.1
	Average End of Year Inventories per Establishment (\$1,000)	1,933.9	3,916.4	3,833.5	743.4	1,415.2	981.3	890.7	908.4	1,259.7
333	Machinery Manufacturing									
	Employment to Establishments Ratio	101.6	213.2	189.9	54.9	90.0	54.1		62.6	80.8
	Average Payroll per Employee (\$1,000)	42.3	40.8	47.4	46.9	43.0	43.6		42.7	42.9
	Average Receipts per Employee (\$1,000)	221.9	290.7	445.6	203.8	222.7	221.6		238.9	222.2
	Average End of Year Inventories per Establishment (\$1,000)	3,731.7	7,618.7	8,737.1	1,745.2	3,224.6	1,539.5	1,750.9	2,450.9	2,891.9
334	Computer and Electronic Product Manufacturing									
	Employment to Establishments Ratio	167.9	457.1	429.6	97.0	156.2	95.7	139.0	131.8	145.9
	Average Payroll per Employee (\$1,000)	50.3	52.5	61.2	50.4	50.6	54.7		53.0	51.4
	Average Receipts per Employee (\$1,000)	297.5	489.2	322.0	291.5	293.2	176.2		258.4	289.1
	Average End of Year Inventories per Establishment (\$1,000)	5,907.2	15,024.5	11,720.1	5,224.8	5,787.6	2,436.8	4,828.6	4,797.3	5,303.5
335	Electrical Equipment, Appliance, and Component Manufacturing			***		110.0				
	Employment to Establishments Ratio	146.1	312.5	295.9 38.0	124.0 37.2	149.9	61.1		96.2 37.1	131.5
	Average Payroll per Employee (\$1,000)	36.3 215.9	39.7 261.9	260.1	236.5	36.7 221.7	34.0 196.1		190.0	36.6 214.0
	Average Receipts per Employee (\$1,000) Average End of Year Inventories per Establishment (\$1,000)	3,727.7	7,334.4	10,398.7	2,585.9	3,639.6	1,629.9		2,570.8	3,265.0
225										
336	Transportation Equipment Manufacturing	265.6	542.0	016.7	247.0	2002	142.2	308.1	133.9	241.7
	Employment to Establishments Ratio	265.6 47.4	53.1	916.7 60.9	247.8 51.0	266.3 48.9	142.2 46.1		47.7	241.7 49.3
	Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000)	329.3	353.6	672.5	433.9	374.0	416.9		272.9	386.0
	Average End of Year Inventories per Establishment (\$1,000)	9,052.9	25,342.5	35,759.6	5,810.3	8,129.0	3,376.0	21,686.1	5,839.8	8,974.8
337	Paris and Paris I Paris March 1991									
33/	Furniture and Related Product Manufacturing Employment to Establishments Ratio	119.0	194.1	65.3	64.4	92.8	53.8	46.6	62.9	76.7
	Average Payroll per Employee (\$1,000)	29.1	30.5	31.8	30.5	29.5	36.8		29.6	29.6
	Average Receipts per Employee (\$1,000)	141.6	149.5	169.6	118.3	133.2	125.0		139.1	133.2
	Average End of Year Inventories per Establishment (\$1,000)	1,788.6	3,992.2	1,177.1	734.8	1,282.3	512.3	612.6	928.3	1,050.9
339	Miscellaneous Manufacturing									
JJ)	Employment to Establishments Ratio	93.8	265.3	139.3	46.4	82.5	41.0	41.9	56.5	69.8
	Average Payroll per Employee (\$1,000)	38.4	41.4	44.9	35.8	38.1	34.8		36.1	37.7
	Average Receipts per Employee (\$1,000)	189.5	251.4	268.7	141.2	185.5	145.9		169.2	179.8
	Average End of Year Inventories per Establishment (\$1,000)	2,645.4	8,518.7	4,477.2	664.0		760.4		1,370.8	1,768.4
			Question	28.A.2.c. Warehousin	g of finished prod	ucts				
31	Manufacturing									
	Establishments	66,045	4,807	4,892	27,528	96,624	6,083	16,069	29,095	147,871
	Employment	7,818,284	1,156,436	1,035,949	1,696,735	10,136,230	339,123		1,904,237	13,478,883
	Annual Payroll (\$1,000)	310,376,551	48,024,606	48,151,818	70,391,899	405,896,708	12,720,354		74,559,023	537,273,932
	Receipts (\$1,000)	2,178,918,778	452,879,626	443,884,947	508,894,418	2,920,963,260	71,944,985		424,303,930	3,756,084,971
	End of Year Inventories - 2002 (\$1,000)	237,236,987	41,560,366	44,689,532	43,537,792	300,528,269	7,259,657	36,669,727	52,309,832	396,767,485

 $* A sample of 2002 \ Economic \ Census \ Question \ 28 \ is \ available \ at \ http://help.econ.census.gov/2002 forms/mc31101.pdf$

NAICS	Description	Activity Performed by this Establishment	by Anothor	Activity Performed by Another Company	Activity not Performed	Total Establishments Responding to at least One Item on Question	Non – Response on question but Reported other Supply Chain Information	Reported but Supply Chain Question Reply was Invalid	Non-responding Establishments	Total Establishments Mailed
	Employment to Establishments Ratio	118.4	240.6	211.8	61.6	104.9	55.7	68.4	65.4	
	Average Payroll per Employee (\$1,000)	39.7	41.5	46.5	41.5	40.0	37.5		39.2	
	Average Receipts per Employee (\$1,000)	278.7	391.6	428.5	299.9	288.2	212.2	308.3	222.8	278.7
	Average End of Year Inventories per Establishment (\$1,000)	3,592.1	8,645.8	9,135.2	1,581.6	3,110.3	1,193.4	2,282.0	1,797.9	2,683.2
311	Food Manufacturing									
311	Employment to Establishments Ratio	160.2	266.7	234.0	72.1	148.2	61.2	63.7	62.2	113.6
	Average Payroll per Employee (\$1,000)	31.5	31.8	32.6	27.1	30.9	26.8	28.1	31.6	
	Average Receipts per Employee (\$1,000)	338.1	390.4	383.0	246.6	327.7	263.7	239.8	289.0	
	Average End of Year Inventories per Establishment (\$1,000)	3,752.6	7,227.7	7,438.0	871.2	3,291.9	1,237.1	935.7	1,501.3	
						,	•		,	
312	Beverage and Tobacco Product Manufacturing									
	Employment to Establishments Ratio	118.3	124.1	86.3	104.1	114.6	47.6	118.3	44.9	100.7
	Average Payroll per Employee (\$1,000)	41.5	46.2		56.1	43.1	42.5	49.0	39.8	
	Average Receipts per Employee (\$1,000)	547.5	1,217.2	404.1	1,479.4	651.1	891.8	1,100.4	363.3	672.8
	Average End of Year Inventories per Establishment (\$1,000)	8,385.3	26,317.5	12,901.4	32,825.8	11,457.6	3,938.3	7,413.1	2,477.5	9,311.0
313	Textile Mills									
	Employment to Establishments Ratio	140.8	230.7	144.9	125.5	143.1	58.0	66.0	89.4	118.3
	Average Payroll per Employee (\$1,000)	29.6	29.0	36.6	28.0	29.1	27.9	25.2	27.5	28.6
	Average Receipts per Employee (\$1,000)	178.7	223.3	267.0	170.1	181.7	128.8	159.1	138.2	171.5
	Average End of Year Inventories per Establishment (\$1,000)	2,952.4	4,937.9	4,891.8	1,156.3	2,667.9	1,015.8	985.7	1,511.3	2,137.0
214	T . T . D . L . M. C									
314	Textile Product Mills	95.5	120.7	146.8	59.2	86.2	35.9	44.4	51.0	66.2
	Employment to Establishments Ratio	26.7	129.7 27.2	30.9	26.9	26.7	24.3		51.2 25.8	
	Average Payroll per Employee (\$1,000)	165.1	291.5	200.2	231.8	179.9	120.5	282.7	152.6	
	Average Receipts per Employee (\$1,000) Average End of Year Inventories per Establishment (\$1,000)	2,344.8	4,705.9	3,345.7	959.0	1,997.2	477.6	263.0	888.0	
	Average End of Tear Inventories per Establishment (\$1,000)	2,344.0	4,703.9	3,343.7	939.0	1,997.2	477.0	203.0	888.0	1,200.1
315	Apparel Manufacturing									
	Employment to Establishments Ratio	87.3	166.8	54.6	53.1	80.1	58.3	45.7	49.2	
	Average Payroll per Employee (\$1,000)	25.5	21.1	26.5	17.7	23.1	20.0	20.9	22.2	22.4
	Average Receipts per Employee (\$1,000)	154.1	178.9	184.3	85.7	141.7	127.3	160.0	136.1	141.3
	Average End of Year Inventories per Establishment (\$1,000)	2,094.1	2,129.0	1,643.1	333.0	1,426.4	598.6	808.5	1,058.2	1,161.2
316	Leather and Allied Product Manufacturing									
310	Employment to Establishments Ratio	70.1	146.6	74.1	40.2	70.2	50.1	33.2	60.2	62.6
	Average Payroll per Employee (\$1,000)	27.2	22.3	30,9	23.2	26.1	26.0	23.2	27.1	26.2
	Average Receipts per Employee (\$1,000)	182.1	137.9	174.5	107.7	167.5	116.1	117.3	97.3	144.4
	Average End of Year Inventories per Establishment (\$1,000)	1,709.7	2,795.1	1,654.9	396.1	1,527.1	424.3	707.4	982.0	1,246.4
221	W. ID I W. C.									
321	Wood Product Manufacturing Employment to Establishments Ratio	83.5	140.8	96.7	58.9	76.0	43.2	41.0	42.7	64.2
	Average Payroll per Employee (\$1,000)	31.7	31.6	33.7	28.7	30.9	28.2		28.3	
-	Average Receipts per Employee (\$1,000) Average Receipts per Employee (\$1,000)	181.8	200.2	215.7	141.8	172.4	158.8	172.8	153.5	169.5
	Average End of Year Inventories per Establishment (\$1,000)	1,706.6	3,415.7	1,966.6	773.3	1,418.9	734.7	794.8	675.7	1,174.4
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,		,				, , ,
322	Paper Manufacturing									
	Employment to Establishments Ratio	139.3	239.0	244.7	63.8	132.7	77.3	72.3	73.0	119.4
	Average Payroll per Employee (\$1,000)	44.6	47.6	50.5	39.0	44.4	39.0	41.6	40.6	43.9
	Average Receipts per Employee (\$1,000)	321.6	371.3	381.8	271.3	323.5	260.6	289.8	244.2	
	Average End of Year Inventories per Establishment (\$1,000)	4,222.5	8,206.5	9,278.6	1,501.9	3,985.5	1,508.6	1,649.2	1,882.7	3,486.4
323	Printing and Related Support Activities									
	Employment to Establishments Ratio	83.1	122.6	88.7	53.2	71.4	57.3	40.8	41.9	60.8
	Average Payroll per Employee (\$1,000)	36.8	38.3	43.1	37.8	37.3	34.2		38.7	
	Average Receipts per Employee (\$1,000)	145.0	180.2	204.7	138.4	145.0	120.9	131.6	139.6	
	Average End of Year Inventories per Establishment (\$1,000)	877.8	1,678.9	1,335.8	341.8	668.8	406.5	344.2	346.7	548.0
324	Petroleum and Coal Products Manufacturing									

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	Employment to Establishments Ratio	89.4	405.6	195.8	37.7	62.3	30.0	35.8	39.7	55.1
-	Average Payroll per Employee (\$1,000)	60.9	68.7	67.9	62.2	61.9	49.8	55.4	55.0	60.5
	Average Receipts per Employee (\$1,000)	2,280.1	3,132.4	2,968.9	2,570.7	2,378.9	805.2	1,561.1	1,136.4	2,163.2
	Average End of Year Inventories per Establishment (\$1,000)	14,635.6	73,674.2	33,259.2	5,817.5	9,906.0	1,949.9	4,343.8	1,987.3	7,895.7
325	Chemical Manufacturing									
	Employment to Establishments Ratio	111.5	236.4	239.0	54.6	111.4	85.3	70.0	61.8	97.8
	Average Payroll per Employee (\$1,000)	52.8	54.1	58.8	50.8	53.0	54.7	49.8	51.6	52.6
	Average Receipts per Employee (\$1,000)	571.8	643.1	706.1	558.1	576.7	615.0	444.5	450.9	553.7
	Average End of Year Inventories per Establishment (\$1,000)	6,915.6	15,789.5	16,943.4	2,506.0	6,780.8	4,580.0	2,762.2	3,030.7	5,655.1
226	District and Dath and Dath of Manager and									
326	Plastics and Rubber Products Manufacturing	1160	189.1	179.7	60.7	110.1	52.7	66.9	67.6	97.5
	Employment to Establishments Ratio Average Payroll per Employee (\$1,000)	116.2 33.7	36.2	39.6		33.8	31.6		31.9	33.3
-	Average Payron per Employee (\$1,000) Average Receipts per Employee (\$1,000)	184.3	226.7	237.8	156.7	183.9	139.1	140.4	167.5	179.0
	Average End of Year Inventories per Establishment (\$1,000)	2,002.4	3,819.0	4,406.8	610.8	1,842.3	743.5	1,064.0	938.8	1,589.7
	Average End of Teal Inventories per Establishment (#1,000)	2,002.4	3,017.0	4,400.0	010.0	1,042.3	743.3	1,004.0	730.0	1,505.7
327	Nonmetallic Mineral Product Manufacturing									
	Employment to Establishments Ratio	71.3	136.6	208.7	22.8	49.6	34.2	31.6	38.0	45.0
	Average Payroll per Employee (\$1,000)	38.1	39.9	44.3	37.4	37.9	34.6	35.4	37.6	37.5
	Average Receipts per Employee (\$1,000)	205.9	257.5	264.9	213.6	206.9	149.2	186.7	187.6	200.7
	Average End of Year Inventories per Establishment (\$1,000)	1,782.7	4,033.7	7,312.5	237.2	1,080.9	463.3	526.8	646.6	920.9
331	Primary Metal Manufacturing									
	Employment to Establishments Ratio	173.4	325.4	369.5	83.9	151.5	117.9	93.8	121.9	140.6
	Average Payroll per Employee (\$1,000)	43.9	47.0	52.6	41.9	43.8	42.7	47.2	42.7	43.8
	Average Receipts per Employee (\$1,000)	301.7	340.4	419.1	225.9	292.7	297.7	278.9	254.8	286.1
	Average End of Year Inventories per Establishment (\$1,000)	7,638.2	16,912.0	23,834.6	1,918.3	6,146.6	4,413.7	4,812.1	4,327.2	5,664.4
332	Fabricated Metal Product Manufacturing									
332	Employment to Establishments Ratio	79.1	162.6	118.1	42.4	65.6	46.1	43.0	48.8	59.9
	Average Payroll per Employee (\$1,000)	36.9	39.5	42.3	37.7	37.2	38.0	35.5	37.1	37.1
	Average Receipts per Employee (\$1,000)	179.4	260.3	325.6	135.5	169.6	142.4	148.9	153.9	165.1
	Average End of Year Inventories per Establishment (\$1,000)	1,912.2	4,743.0	4,950.7	594.2	1,415.1	954.5	890.7	908.4	1,259.7
333	Machinery Manufacturing									
333	Employment to Establishments Ratio	104.2	216.4	212.1	51.3	90.5	44.7	58.2	62.6	80.8
	Average Payroll per Employee (\$1,000)	42.3	39.1	47.0		43.0	43.3		42.7	42.9
	Average Receipts per Employee (\$1,000)	220.5	275.6	351.4	203.0	224.4	165.3	173.4	238.9	222.2
	Average End of Year Inventories per Establishment (\$1,000)	3,826.9	7,908.1	9,766.2	1,630.3	3,247.6	1,156.6	1,750.9	2,450.9	2,891.9
334	Computer and Electronic Product Manufacturing Employment to Establishments Ratio	173.4	416.2	389.5	94.5	157.1	77.9	139.0	131.8	145.9
-	Average Payroll per Employee (\$1,000)	50.8	53.4	59.9	51.3	51.0	46.9	52.4	53.0	51.4
	Average Receipts per Employee (\$1,000) Average Receipts per Employee (\$1,000)	290.5	517.3	391.8	284.1	292.6	153.7	368.5	258.4	289.1
	Average End of Year Inventories per Establishment (\$1,000)	5,894.9	14,585.7	14,904.2	5,264.0	5,800.2	1,942.9	4,828.6	4,797.3	5,303.5
	1		,				·		·	·
335	Electrical Equipment, Appliance, and Component Manufacturing									
	Employment to Establishments Ratio	154.5	333.0	290.5	69.1	150.0	60.6	87.7	96.2	131.5
	Average Payroll per Employee (\$1,000)	36.1	39.2	36.7	37.6	36.6	37.8	35.3	37.1	36.6
	Average Receipts per Employee (\$1,000)	214.3	269.1	273.9	193.9	222.0	179.5	170.0	190.0	214.0
-	Average End of Year Inventories per Establishment (\$1,000)	3,931.9	7,757.5	8,994.7	1,290.0	3,632.8	1,810.3	2,400.7	2,570.8	3,265.0
336	Transportation Equipment Manufacturing									
	Employment to Establishments Ratio	254.0	476.8	534.0	278.6	266.5	119.9	308.1	133.9	241.7
	Average Payroll per Employee (\$1,000)	45.9		58.8		48.9	45.7	52.8	47.7	49.3
	Average Receipts per Employee (\$1,000)	299.1	460.5	635.6	509.9	375.5	373.3	525.3	272.9	386.0
	Average End of Year Inventories per Establishment (\$1,000)	7,660.9	15,395.9	14,963.5	8,827.7	8,094.6	3,282.3	21,686.1	5,839.8	8,974.8
337	Furniture and Related Product Manufacturing									
33/	Furniture and Kerated Product Manufacturing	1								

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NAICS	Description	Activity Performed by this Establishment	Activity Performed by Another Establishment	Activity Performed by Another Company	Activity not Performed	Total Establishments Responding to at least One Item on Question	Non – Response on question but Reported other Supply Chain Information	Reported but Supply Chain Question Reply was Invalid	Non-responding Establishments	Total Establishments Mailed
	Employment to Establishments Ratio	105.8	206.1	89.9	55.2	91.9	54.9	46.6	62.9	
	Average Payroll per Employee (\$1,000)	29.5	29.3	34.0	29.8	29.5	38.0	27.1	29.6	29.6
	Average Receipts per Employee (\$1,000)	137.6	141.0	139.4	113.6	132.9	127.3	127.6	139.1	133.2
<u> </u>	Average End of Year Inventories per Establishment (\$1,000)	1,540.6	3,826.4	1,361.8	523.4	1,267.6	518.4	612.6	928.3	1,050.9
339	Miscellaneous Manufacturing									
	Employment to Establishments Ratio	92.7	304.9	157.7	41.7	82.7	37.4	41.9	56.5	69.8
	Average Payroll per Employee (\$1,000)	38.4	40.1	45.9	35.8	38.1	34.7	38.3	36.1	37.7
	Average Receipts per Employee (\$1,000)	188.9	242.1	257.9	133.3	185.4	143.0	162.6	169.2	179.8
	Average End of Year Inventories per Establishment (\$1,000)	2,616.6	9,101.2	5,778.6	589.4	2,167.9	698.7	908.7	1,370.8	1,768.4
		Question	28.A.2.d. Breaking b	oulk (reducing large sh	ipments into small	er portions for customers)				
31	Manufacturing									
	Establishments	31,005	2,775	2,061	59,732	93,521	9,186	16,069	29,095	147,871
	Employment	3,603,166	661,995	460,575	5,550,004	9,817,412	657,941	1,099,293	1,904,237	13,478,883
	Annual Payroll (\$1,000)	141,544,308	26,679,609	22,815,355	223,576,330	393,418,057	25,199,005	44,097,847	74,559,023	537,273,932
<u> </u>	Receipts (\$1,000)	1,005,183,185	233,811,640	240,227,098	1,551,356,296	2,844,802,332	148,105,913	338,872,796	424,303,930	3,756,084,971
	End of Year Inventories - 2002 (\$1,000)	113,547,485	22,221,972	19,269,080	155,178,768	292,203,004	15,584,922	36,669,727	52,309,832	396,767,485
	Employment to Establishments Ratio	116.2		223.5	92.9	105.0	71.6	68.4	65.4	
	Average Payroll per Employee (\$1,000)	39.3	40.3	49.5	40.3	40.1	38.3	40.1	39.2	
	Average Receipts per Employee (\$1,000)	279.0	353.2 8.007.9	521.6 9,349.4	279.5 2,597.9	289.8 3,124.5	225.1	308.3 2.282.0	222.8 1,797.9	278.7 2,683.2
	Average End of Year Inventories per Establishment (\$1,000)	3,662.2	8,007.9	9,349.4	2,597.9	3,124.5	1,696.6	2,282.0	1,/9/.9	2,083.2
311	Food Manufacturing									
	Employment to Establishments Ratio	168.8	260.8	211.1	122.3	148.6	85.2	63.7	62.2	
	Average Payroll per Employee (\$1,000)	31.1	32.2	37.5	30.0	30.9	29.7	28.1	31.6	
	Average Receipts per Employee (\$1,000)	342.7	397.4	472.0	298.7	328.5	282.2	239.8	289.0	
<u> </u>	Average End of Year Inventories per Establishment (\$1,000)	3,510.1	5,289.6	7,927.9	2,757.6	3,312.2	1,672.5	935.7	1,501.3	2,452.9
312	Beverage and Tobacco Product Manufacturing									
	Employment to Establishments Ratio	131.4	145.6	156.9	83.9	111.4	126.1	118.3	44.9	
	Average Payroll per Employee (\$1,000)	40.0	30.5	58.8	44.4	43.0	43.5	49.0	39.8	43.4
	Average Receipts per Employee (\$1,000)	480.2	782.5	859.6	743.8	656.3	632.8	1,100.4	363.3	672.8
	Average End of Year Inventories per Establishment (\$1,000)	8,032.4	22,783.2	19,169.3	12,255.3	12,175.9	3,168.0	7,413.1	2,477.5	9,311.0
313	Textile Mills									
	Employment to Establishments Ratio	125.6	225.0	126.4	150.1	144.2	74.9	66.0	89.4	118.3
	Average Payroll per Employee (\$1,000)	29.6	31.5	43.4	28.7	29.1	28.4	25.2	27.5	28.6
	Average Receipts per Employee (\$1,000)	181.2	269.9	452.2	172.8	182.1	146.9	159.1	138.2	171.5
	Average End of Year Inventories per Establishment (\$1,000)	2,907.6	5,626.0	6,087.2	2,314.8	2,666.9	1,577.2	985.7	1,511.3	2,137.0
314	Textile Product Mills									
	Employment to Establishments Ratio	90.2		69.9	80.8	85.0	54.9	44.4	51.2	
	Average Payroll per Employee (\$1,000)	26.1	26.0	23.2	26.9	26.6	26.6	25.7	25.8	
	Average Receipts per Employee (\$1,000)	160.3	252.4	116.4	189.8	179.3	155.5	282.7	152.6	187.5
	Average End of Year Inventories per Establishment (\$1,000)	2,403.1	3,582.3	1,415.7	1,658.9	1,996.0	841.0	263.0	888.0	1,286.1
315	Apparel Manufacturing									
	Employment to Establishments Ratio	90.9	179.2	60.9	67.6	81.0	61.1	45.7	49.2	
	Average Payroll per Employee (\$1,000)	26.8			20.8	23.0	21.6	20.9	22.2	
	Average Receipts per Employee (\$1,000)	185.5	184.4	179.9	98.9	141.1	137.5	160.0	136.1	141.3
	Average End of Year Inventories per Establishment (\$1,000)	2,383.7	1,929.3	1,040.2	977.8	1,432.3	855.4	808.5	1,058.2	1,161.2
316	Leather and Allied Product Manufacturing									
	Employment to Establishments Ratio	67.7	169.0	103.6	57.3	69.9	61.3	33.2	60.2	
	Average Payroll per Employee (\$1,000)	27.6	23.9	27.0	26.3	26.2	24.8	23.2	27.1	26.2
	Average Receipts per Employee (\$1,000)	170.9	154.1	147.0	175.5	168.6	134.2	117.3	97.3	
1	Average End of Year Inventories per Establishment (\$1,000)	1,809.0	3,325.1	1,701.4	1,142.7	1,558.8	651.3	707.4	982.0	1,246.4
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 $* A sample of 2002 \ Economic \ Census \ Question \ 28 \ is \ available \ at \ http://help.econ.census.gov/2002 forms/mc31101.pdf$

Average I Average I Average I Average I 322	ment to Establishments Ratio e Payroll per Employee (\$1,000) e End of Year Inventories per Establishment (\$1,000) danufacturing ment to Establishments Ratio e Payroll per Employee (\$1,000) e Receipts per Employee (\$1,000) e End of Year Inventories per Establishment (\$1,000) g and Related Support Activities ment to Establishments Ratio e Payroll per Employee (\$1,000) e End of Year Inventories per Establishment (\$1,000) g and Related Support Activities ment to Establishments Ratio e Payroll per Employee (\$1,000) e End of Year Inventories per Establishment (\$1,000) e End of Year Inventories per Establishment (\$1,000)	77.7 31.3 181.9 1.648.2 128.7 42.1 289.7 3,728.9	168.7 35.1 214.4 3,181.4 288.4 45.5 382.8 9,603.3	63.5 32.0 182.8 1,086.8 264.5 50.7 418.7	73.2 30.4 164.2 1,272.6	76.3 30.9 172.4 1,421.5	50.7 28.8 163.7 916.0	41.0 28.2 172.8 794.8	42.7 28.3 153.5 675.7	64.2 30.3 169.5 1,174.4
Average I 322	e Receipts per Employee (\$1,000) e End of Year Inventories per Establishment (\$1,000) fanufacturing ment to Establishments Ratio e Payroll per Employee (\$1,000) e Receipts per Employee (\$1,000) e End of Year Inventories per Establishment (\$1,000) g and Related Support Activities ment to Establishments Ratio e Payroll per Employee (\$1,000) e Receipts per Employee (\$1,000) e Receipts per Employee (\$1,000)	181.9 1,648.2 128.7 42.1 289.7 3,728.9	214.4 3,181.4 288.4 45.5 382.8	182.8 1,086.8 264.5 50.7	164.2 1,272.6	172.4	163.7	172.8	153.5	169.5
Average I 322	e End of Year Inventories per Establishment (\$1,000) Manufacturing ment to Establishments Ratio e Payroll per Employee (\$1,000) e Receipts per Employee (\$1,000) e End of Year Inventories per Establishment (\$1,000) g and Related Support Activities ment to Establishments Ratio e Payroll per Employee (\$1,000) e Receipts per Employee (\$1,000) e Receipts per Employee (\$1,000)	1,648.2 128.7 42.1 289.7 3,728.9	3,181.4 288.4 45.5 382.8	1,086.8 264.5 50.7	1,272.6					
322	Annufacturing ment to Establishments Ratio e Payroll per Employee (\$1,000) e Receipts per Employee (\$1,000) e End of Year Inventories per Establishment (\$1,000) g and Related Support Activities ment to Establishments Ratio e Payroll per Employee (\$1,000) e Receipts per Employee (\$1,000) e Receipts per Employee (\$1,000)	128.7 42.1 289.7 3,728.9	288.4 45.5 382.8	264.5 50.7		1,421.5	916.0	794.8	6/5.7	1,174.4
Employm Average I Average I Average I 323	rment to Establishments Ratio e Payroll per Employee (\$1,000) e Receipts per Employee (\$1,000) e End of Year Inventories per Establishment (\$1,000) g and Related Support Activities ment to Establishments Ratio e Payroll per Employee (\$1,000) e Receipts per Employee (\$1,000)	42.1 289.7 3,728.9	45.5 382.8	50.7	124.9			1		
Employm Average I Average I 323	rment to Establishments Ratio e Payroll per Employee (\$1,000) e Receipts per Employee (\$1,000) e End of Year Inventories per Establishment (\$1,000) g and Related Support Activities ment to Establishments Ratio e Payroll per Employee (\$1,000) e Receipts per Employee (\$1,000)	42.1 289.7 3,728.9	45.5 382.8	50.7	124.9					
Average I 323	e Receipts per Employee (\$1,000) e End of Year Inventories per Establishment (\$1,000) g and Related Support Activities ment to Establishments Ratio e Payroll per Employee (\$1,000) e Receipts per Employee (\$1,000)	289.7 3,728.9	382.8			133.2	103.0	72.3	73.0	119.4
Average I 323	e End of Year Inventories per Establishment (\$1,000) g and Related Support Activities ment to Establishments Ratio e Payroll per Employee (\$1,000) e Receipts per Employee (\$1,000)	3,728.9		419.7	45.6	44.5	41.4	41.6	40.6	43.9
323	g and Related Support Activities ment to Establishments Ratio e Payroll per Employee (\$1,000) e Receipts per Employee (\$1,000)		9,603.3	710./	342.3	326.1	261.6	289.8	244.2	
Employm Average I Average I Average I Average I 324 Employm Average I Average I Average I Average I Average I Average I 325 Chemical Employm Average I	ment to Establishments Ratio e Payroll per Employee (\$1,000) e Receipts per Employee (\$1,000)	81.8		11,166.8	3,727.8	4,030.7	2,377.8	1,649.2	1,882.7	3,486.4
Employm Average I Average I Average I Average I 324 Employm Average I 325 Chemical Employm Average I	ment to Establishments Ratio e Payroll per Employee (\$1,000) e Receipts per Employee (\$1,000)	81.8								
Average I Average I Average I 324 Employm Average I Average I Average I 325 Chemical Employm Average I Average I Average I 325 Average I	e Payroll per Employee (\$1,000) e Receipts per Employee (\$1,000)	01.0	129.8	85.7	65.2	71.3	61.8	40.8	41.9	60.8
Average I 324	e Receipts per Employee (\$1,000)	36.6	38.2	40.2	37.4		35.7	36.2	38.7	37.2
Average I 324		146.8	202.5	195.7	139.7	145.0	127.9	131.6	139.6	141.8
324		905.0	1,810.8	1,369.6	528.5	664.2	506.4	344.2	346.7	548.0
Employm Average I Average I 325	-			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
Average I Average I Average I 325	um and Coal Products Manufacturing									
Average F	ment to Establishments Ratio	51.7	345.4	104.3	64.6	62.6	33.9	35.8	39.7	55.1
Average I 325 Chemical Employm Average I Average I Average I 326 Plastics at Employm Average I Average I Average I Average I	e Payroll per Employee (\$1,000)	54.2	69.0	67.1	64.1	62.2	46.0	55.4	55.0	60.5
325 Chemical Employm Average I Average I Average I 326 Plastics as Employm Average I Average I	e Receipts per Employee (\$1,000)	1,600.4	2,781.1	2,832.0	2,616.3	2,405.2	663.3 1,756.8	1,561.1 4,343.8	1,136.4	2,163.2
Employm Average F Average F Average F Average F S26	e End of Year Inventories per Establishment (\$1,000)	6,911.9	66,945.9	18,856.9	10,779.7	10,070.6	1,/56.8	4,343.8	1,987.3	7,895.7
Average I Average I Average I 326 Plastics an Employm Average I Average I	al Manufacturing									
Average F Average F 326 Plastics at Employm Average F Average F	ment to Establishments Ratio	111.1	248.2	242.2	96.4	112.0	85.9	70.0	61.8	97.8
326 Plastics at Employm Average F Average F	e Payroll per Employee (\$1,000)	53.6	57.7	56.7	51.7	53.1	51.2	49.8	51.6	52.6
326 Plastics at Employm Average F	e Receipts per Employee (\$1,000)	586.2	626.9	758.7	517.1	574.1	650.3	444.5	450.9	553.7
Employm Average I Average I	e End of Year Inventories per Establishment (\$1,000)	7,005.5	15,764.8	18,628.1	5,116.6	6,763.6	5,815.8	2,762.2	3,030.7	5,655.1
Employm Average I Average I	and Rubber Products Manufacturing									
Average I	ment to Establishments Ratio	109.6	204.4	192.5	106.9	110.3	77.5	66.9	67.6	97.5
	e Payroll per Employee (\$1,000)	33.2	35.6	39.6	34.0		31.7	29.8	31.9	33.3
A T	e Receipts per Employee (\$1,000)	193.9	247.4	273.6	174.2	184.7	154.3	140.4	167.5	179.0
Average i	e End of Year Inventories per Establishment (\$1,000)	2,171.5	4,728.2	5,469.8	1,562.7	1,858.8	1,078.7	1,064.0	938.8	1,589.7
327 Nonmetal	tallic Mineral Product Manufacturing									
	ment to Establishments Ratio	59.6	154.0	163.5	42.5	49.1	43.8	31.6	38.0	45.0
Average I	e Payroll per Employee (\$1,000)	37.4	39.9	38.4	38.3	38.0	34.0	35.4	37.6	37.5
Average I	e Receipts per Employee (\$1,000)	201.9	249.3	258.0	212.5	208.1	153.4	186.7	187.6	200.7
Average I	e End of Year Inventories per Establishment (\$1,000)	1,440.8	4,724.6	4,311.5	861.4	1,073.9	685.2	526.8	646.6	920.9
331 Primary N	Metal Manufacturing									
	ment to Establishments Ratio	155.8	182.3	353.2	147.2	151.8	126.3	93.8	121.9	140.6
	e Payroll per Employee (\$1,000)	43.4	41.5		44.1	43.9	41.2	47.2	42.7	43.8
	e Receipts per Employee (\$1,000)	272.8	392.7	366.1	300.9	294.8	253.0	278.9	254.8	286.1
	e End of Year Inventories per Establishment (\$1,000)	6,783.0	7,945.4	21,389.1	5,741.9	6,192.3	4,326.0	4,812.1	4,327.2	5,664.4
	ted Metal Product Manufacturing									
	ment to Establishments Ratio	84.0	184.9	106.0	56.8	65.6	51.1	43.0	48.8	59.9
	e Payroll per Employee (\$1,000)	36.4 174.0	38.7 214.2	38.1 215.2	37.6 164.2	37.2 169.6	37.3 151.9	35.5 148.9	37.1 153.9	37.1 165.1
	e Receipts per Employee (\$1,000) e End of Year Inventories per Establishment (\$1,000)	2,112.6	4,247.2	2,932.8	1,104.5	1,414.4	1,093.2	890.7	908.4	1,259.7
Average 1	e Lite of Tea Intentories per Establishment (#1,000)	2,112.0	4,247.2	2,932.6	1,104.3	1,414.4	1,093.2	890.7	708.4	1,239.7
	ery Manufacturing									
		104.1	231.7	167.6	78.8	89.8	68.0	58.2	62.6	80.8
	ment to Establishments Ratio	41.5	37.7	43.0	44.2	42.9	44.2	42.4	42.7	42.9
	e Payroll per Employee (\$1,000)	211.9	302.5	339.3	220.7	223.2	214.6	173.4	238.9	222.2
Average I	e Payroll per Employee (\$1,000) e Receipts per Employee (\$1,000)									
334 Computer	e Payroll per Employee (\$1,000)	3,857.0	8,261.7	7,220.3	2,777.7	3,219.7	2,179.4	1,750.9	2,450.9	2,891.9

 $* A sample of 2002 \ Economic \ Census \ Question \ 28 \ is \ available \ at \ http://help.econ.census.gov/2002 forms/mc31101.pdf$

NAICS	Description	Activity Performed by this Establishment	Activity Performed by Another Establishment	by Another Company	Activity not Performed	Total Establishments Responding to at least One Item on Question	Non – Response on question but Reported other Supply Chain Information	Reported but Supply Chain Question Reply was Invalid	Non-responding Establishments	Total Establishments Mailed
	Employment to Establishments Ratio	189.9	380.6	336.3	135.0	157.0	110.6	139.0	131.8	145.9
	Average Payroll per Employee (\$1,000)	50.4	50.3	59.8	50.4	50.6	53.7	52.4	53.0	51.4
	Average Receipts per Employee (\$1,000)	286.2	337.0	432.7	299.8	297.1	183.3	368.5	258.4	289.1
	Average End of Year Inventories per Establishment (\$1,000)	6,752.5	12,984.2	13,300.8	5,220.4	5,829.6	3,286.4	4,828.6	4,797.3	5,303.5
335	Electrical Equipment, Appliance, and Component Manufacturing									
	Employment to Establishments Ratio	142.9	329.7	368.0	133.9	151.1	86.7	87.7	96.2	131.5
	Average Payroll per Employee (\$1,000)	35.8	37.3	38.9	37.1	36.7	35.5	35.3	37.1	36.6
	Average Receipts per Employee (\$1,000)	211.8	259.3	270.1	217.0	222.8	189.1	170.0	190.0	214.0
	Average End of Year Inventories per Establishment (\$1,000)	3,822.0	6,227.7	10,175.9	3,157.0	3,648.0	2,418.2	2,400.7	2,570.8	3,265.0
336	Transportation Equipment Manufacturing									
330	Employment to Establishments Ratio	264.1	463.6	1,112.7	256.6	270.0	135.2	308.1	133.9	241.7
	Average Payroll per Employee (\$1,000)	46.5	49.0	62.6	49.3	49.1	41.8		47.7	49.3
	Average Receipts per Employee (\$1,000) Average Receipts per Employee (\$1,000)	326.6	341.9	776.2	360.8	379.5	290.1	525.3	272.9	386.0
	Average End of Year Inventories per Establishment (\$1,000)	10,452.1	20,754.2	26,117.9	7,149.1	8,243.4	3,418.0	21,686.1	5,839.8	8,974.8
	•			.,				, , , , , , , , , , , , , , , , , , , ,		
337	Furniture and Related Product Manufacturing		40							
	Employment to Establishments Ratio	115.3	190.8	68.9	84.0	92.6	61.4		62.9	76.7
	Average Payroll per Employee (\$1,000)	29.8	32.2	27.0	29.4	29.5	34.6 122.5		29.6	29.6
	Average Receipts per Employee (\$1,000)	155.9 1,771.8	181.9 3.044.4	135.3 1,210.2	121.7 1.085.1	133.6 1,277.5	678.1	127.6 612.6	139.1 928.3	133.2 1.050.9
	Average End of Year Inventories per Establishment (\$1,000)	1,//1.8	3,044.4	1,210.2	1,085.1	1,277.5	6/8.1	012.0	928.3	1,050.9
339	Miscellaneous Manufacturing									
	Employment to Establishments Ratio	91.5	312.4	162.6	68.7	82.7	50.3	41.9	56.5	69.8
	Average Payroll per Employee (\$1,000)	37.2	39.2	41.3	38.9	38.2	35.0		36.1	37.7
	Average Receipts per Employee (\$1,000)	184.3	248.2	283.2	175.8	185.5	162.4		169.2	179.8
	Average End of Year Inventories per Establishment (\$1,000)	2,759.3	8,812.9	5,999.4	1,543.8	2,174.1	1,053.9	908.7	1,370.8	1,768.4
		Question 28.A.2.e. La	cal delivery (within a	city, town, or other loc	al area, including	adjoining towns and surbu	rhan areas)			
ı		Question zon nate zo	car acrivery (maint a	city, toii, or other roc	,	aujoining towns and sur bu	Dan areas)			
31	Manufacturing	Question 201112101 20	car denvery (warming	eny, town, or other roo		adjoining towns and surba	toan areas)			
31	Manufacturing Establishments	49,417	4,152	26,371	26,049	96,544	6,163	16,069	29,095	147,871
31	C	49,417 4,051,384	4,152 848,167	26,371 3,246,075	26,049 2,953,601	96,544 10,014,648	6,163 460,705	1,099,293	1,904,237	13,478,883
31	Establishments Employment Annual Payroll (\$1,000)	49,417 4,051,384 156,697,829	4,152 848,167 33,791,898	26,371 3,246,075 138,316,969	26,049 2,953,601 118,965,494	96,544 10,014,648 401,021,602	6,163 460,705 17,595,460	1,099,293 44,097,847	1,904,237 74,559,023	13,478,883 537,273,932
31	Establishments Employment Annual Payroll (\$1,000) Receipts (\$1,000)	49,417 4,051,384 156,697,829 986,544,011	4,152 848,167 33,791,898 341,275,685	26,371 3,246,075 138,316,969 1,048,875,871	26,049 2,953,601 118,965,494 853,470,566	96,544 10,014,648 401,021,602 2,884,342,389	6,163 460,705 17,595,460 108,565,856	1,099,293 44,097,847 338,872,796	1,904,237 74,559,023 424,303,930	13,478,883 537,273,932 3,756,084,971
31	Establishments Employment Annual Payroll (\$1,000) Receipts (\$1,000) End of Year Inventories - 2002 (\$1,000)	49,417 4,051,384 156,697,829 986,544,011 108,133,585	4,152 848,167 33,791,898 341,275,685 27,560,662	26,371 3,246,075 138,316,969 1,048,875,871 106,541,662	26,049 2,953,601 118,965,494 853,470,566 90,279,933	96,544 10,014,648 401,021,602 2,884,342,389 295,863,886	6,163 460,705 17,595,460 108,565,856 11,924,040	1,099,293 44,097,847 338,872,796 36,669,727	1,904,237 74,559,023 424,303,930 52,309,832	13,478,883 537,273,932 3,756,084,971 396,767,485
31	Establishments Employment Annual Payroll (\$1,000) Receipts (\$1,000) End of Year Inventories - 2002 (\$1,000) Employment to Establishments Ratio	49,417 4,051,384 156,697,829 986,544,011 108,133,585 82.0	4,152 848,167 33,791,898 341,275,685 27,560,662 204.3	26,371 3,246,075 138,316,969 1,048,875,871 106,541,662 123.1	26,049 2,953,601 118,965,494 853,470,566 90,279,933 113.4	96,544 10,014,648 401,021,602 2,884,342,389 295,863,886 103.7	6,163 460,705 17,595,460 108,565,856 11,924,040	1,099,293 44,097,847 338,872,796 36,669,727 68.4	1,904,237 74,559,023 424,303,930 52,309,832 65.4	13,478,883 537,273,932 3,756,084,971 396,767,485 91.2
31	Establishments Employment Annual Payroll (\$1,000) Receipts (\$1,000) End of Year Inventories - 2002 (\$1,000) Employment to Establishments Ratio Average Payroll per Employee (\$1,000)	49,417 4,051,384 156,697,829 986,544,011 108,133,585 82.0 38.7	4,152 848,167 33,791,898 341,275,685 27,560,662 204,3 39.8	26,371 3,246,075 138,316,969 1,048,875,871 106,541,662 123.1 42.6	26,049 2,953,601 118,965,494 853,470,566 90,279,933 113.4 40.3	96,544 10,014,648 401,021,602 2,884,342,389 295,863,886 103.7 40.0	6,163 460,705 17,595,460 108,565,856 11,924,040 74,88 38.2	1,099,293 44,097,847 338,872,796 36,669,727 68.4 40.1	1,904,237 74,559,023 424,303,930 52,309,832 65.4 39.2	13,478,883 537,273,932 3,756,084,971 396,767,485 91.2 39.9
31	Establishments Employment Annual Payroll (\$1,000) Receipts (\$1,000) End of Year Inventories - 2002 (\$1,000) Employment to Establishments Ratio Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000)	49,417 4,051,384 156,697,829 986,544,011 108,133,585 82.0 38.7 243.5	4,152 848,167 33,791,898 341,275,685 27,560,662 204.3 39,8 402.4	26,371 3,246,075 138,316,969 1,048,875,871 106,541,662 123.1 42.6 323.1	26,049 2,953,601 118,965,494 853,470,566 90,279,933 113,4 40,3 289.0	96,544 10,014,648 401,021,602 2,884,342,389 295,863,886 103.7 40.0 288.0	6,163 460,705 17,595,460 108,565,856 11,924,040 74.8 38.2 235.7	1,099,293 44,097,847 338,872,796 36,669,727 68.4 40.1 308.3	1,904,237 74,559,023 424,303,930 52,309,832 65.4 39.2 222.8	13,478,883 537,273,932 3,756,084,971 396,767,485 91.2 39.9 278.7
31	Establishments Employment Annual Payroll (\$1,000) Receipts (\$1,000) End of Year Inventories - 2002 (\$1,000) Employment to Establishments Ratio Average Payroll per Employee (\$1,000)	49,417 4,051,384 156,697,829 986,544,011 108,133,585 82.0 38.7	4,152 848,167 33,791,898 341,275,685 27,560,662 204,3 39.8	26,371 3,246,075 138,316,969 1,048,875,871 106,541,662 123.1 42.6	26,049 2,953,601 118,965,494 853,470,566 90,279,933 113.4 40.3	96,544 10,014,648 401,021,602 2,884,342,389 295,863,886 103.7 40.0	6,163 460,705 17,595,460 108,565,856 11,924,040 74,88 38.2	1,099,293 44,097,847 338,872,796 36,669,727 68.4 40.1	1,904,237 74,559,023 424,303,930 52,309,832 65.4 39.2	13,478,883 537,273,932 3,756,084,971 396,767,485 91.2 39.9
311	Establishments Employment Annual Payroll (\$1,000) Receipts (\$1,000) End of Year Inventories - 2002 (\$1,000) Employment to Establishments Ratio Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000)	49,417 4,051,384 156,697,829 986,544,011 108,133,585 82.0 38.7 243.5	4,152 848,167 33,791,898 341,275,685 27,560,662 204.3 39,8 402.4	26,371 3,246,075 138,316,969 1,048,875,871 106,541,662 123.1 42.6 323.1	26,049 2,953,601 118,965,494 853,470,566 90,279,933 113,4 40,3 289.0	96,544 10,014,648 401,021,602 2,884,342,389 295,863,886 103.7 40.0 288.0	6,163 460,705 17,595,460 108,565,856 11,924,040 74.8 38.2 235.7	1,099,293 44,097,847 338,872,796 36,669,727 68.4 40.1 308.3	1,904,237 74,559,023 424,303,930 52,309,832 65.4 39.2 222.8	13,478,883 537,273,932 3,756,084,971 396,767,485 91.2 39.9 278.7
	Establishments Employment Annual Payroll (\$1,000) Receipts (\$1,000) End of Year Inventories - 2002 (\$1,000) Employment to Establishments Ratio Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average End of Year Inventories per Establishment (\$1,000)	49,417 4,051,384 156,697,829 986,544,011 108,133,585 82.0 38.7 243.5	4,152 848,167 33,791,898 341,275,685 27,560,662 204.3 39,8 402.4	26,371 3,246,075 138,316,969 1,048,875,871 106,541,662 123.1 42.6 323.1	26,049 2,953,601 118,965,494 853,470,566 90,279,933 113,4 40,3 289.0	96,544 10,014,648 401,021,602 2,884,342,389 295,863,886 103.7 40.0 288.0	6,163 460,705 17,595,460 108,565,856 11,924,040 74.8 38.2 235.7	1,099,293 44,097,847 338,872,796 36,669,727 68.4 40.1 308.3	1,904,237 74,559,023 424,303,930 52,309,832 65.4 39.2 222.8	13,478,883 537,273,932 3,756,084,971 396,767,485 91.2 39.9 278.7
	Establishments Employment Annual Payroll (\$1,000) Receipts (\$1,000) End of Year Inventories - 2002 (\$1,000) Employment to Establishments Ratio Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average End of Year Inventories per Establishment (\$1,000) Food Manufacturing	49,417 4,051,384 156,697,829 986,544,011 108,133,585 82.0 38.7 243.5 2,188.2	4,152 848,167 33,791,898 341,275,685 27,560,662 204.3 39,8 402.4 6,637.9	26,371 3,246,075 138,316,969 1,048,875,871 106,541,662 123.1 42.6 323.1 4,040.1	26,049 2,953,601 118,965,494 853,470,566 90,279,933 113,4 40.3 289.0 3,465.8	96,544 10,014,648 401,021,602 2,884,342,389 295,863,886 103.7 40.0 288.0 3,064.5	6,163 460,705 17,595,460 108,565,856 11,924,040 74.8 38.2 235.7 1,934.8	1,099,293 44,097,847 338,872,796 36,669,727 68,4 40.1 308,3 2,282.0	1,904,237 74,559,023 424,303,930 52,309,832 65,4 39,2 222,8 1,797.9	13,478,883 537,273,932 3,756,084,971 396,767,885 91.2 39.9 278.7 2,683.2
	Establishments Employment Annual Payroll (\$1,000) Receipts (\$1,000) End of Year Inventories - 2002 (\$1,000) Employment to Establishments Ratio Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average End of Year Inventories per Establishment (\$1,000) Food Manufacturing Employment to Establishments Ratio	49,417 4,051,384 156,697,829 986,544,011 108,133,585 82.0 38.7 243.5 2,188.2	4,152 848,167 33,791,898 341,275,685 27,560,662 204,3 39,8 402,4 6,637,9	26,371 3,246,075 138,316,969 1,048,875,871 106,541,662 123.1 42.6 323.1 4,040.1	26,049 2,953,601 118,965,494 853,470,566 90,279,933 113,4 40,3 289,0 3,465.8	96,544 10,014,648 401,021,602 2,884,342,389 295,863,886 103.7 40.0 288.0 3,064.5	6,163 460,705 17,595,460 108,565,856 11,924,040 74.8 38.2 235.7 1,934.8	1,099,293 44,097,847 338,872,796 36,669,727 68,4 40.1 308,3 2,282.0	1,904,237 74,559,023 424,303,930 52,309,832 65,4 39,2 222,8 1,797,9	13,478,883 537,273,932 3,756,084,971 396,767,485 91,2 39,9 278,7 2,683,2
	Establishments Employment Annual Payroll (\$1,000) Receipts (\$1,000) End of Year Inventories - 2002 (\$1,000) Employment to Establishments Ratio Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average End of Year Inventories per Establishment (\$1,000) Food Manufacturing Employment to Establishments Ratio Average Payroll per Employee (\$1,000)	49,417 4,051,384 156,697,829 986,544,011 108,133,585 82.0 38.7 243.5 2,188.2	4,152 848,167 33,791,898 341,275,685 27,560,662 204.3 39.8 402.4 6,637.9	26,371 3,246,075 138,316,969 1,048,875,871 106,541,662 123.1 42.6 323.1 4,040.1	26,049 2,953,601 118,965,494 853,470,566 90,279,933 113,4 40.3 289,0 3,465.8	96,544 10,014,648 401,021,602 2,884,342,389 295,863,886 103.7 40.0 288.0 3,064.5	6,163 460,705 17,595,460 108,565,856 11,924,040 74.8 38.2 235,7 1,934.8	1,099,293 44,097,847 338,872,796 36,669,727 68.4 40.1 308.3 2,282.0	1,904,237 74,559,023 424,303,930 52,309,832 65.4 39.2 222.8 1,797.9	13,478,883 537,273,932 3,756,084,971 396,767,485 91.2 39.9 278.7 2,683.2
311	Establishments Employment Annual Payroll (\$1,000) Receipts (\$1,000) End of Year Inventories - 2002 (\$1,000) Employment to Establishments Ratio Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average End of Year Inventories per Establishment (\$1,000) Food Manufacturing Employment to Establishments Ratio Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average End of Year Inventories per Establishment (\$1,000)	49,417 4,051,384 156,697,829 986,544,011 108,133,585 82.0 38.7 243.5 2,188.2	4,152 848,167 33,791,898 341,275,685 27,560,662 204,3 39,8 402,4 6,637,9 319,3 28,7 379,0	26,371 3,246,075 138,316,969 1,048,875,871 106,541,662 123.1 42.6 323.1 4,040.1 157.2 33.8 406.8	26,049 2,953,601 118,965,494 853,470,566 90,279,933 113.4 40.3 289.0 3,465.8	96,544 10,014,648 401,021,602 2,884,342,389 295,863,886 103.7 40.0 288.0 3,064.5	6,163 460,705 17,595,460 108,565,856 11,924,040 74.8 38.2 235.7 1,934.8 87.5 29.0	1,099,293 44,097,847 338,872,796 36,669,727 68.4 40.1 308.3 2,282.0 63.7 28.1 239.8	1,904,237 74,559,023 424,303,930 52,309,832 65.4 39.2 222.8 1,797.9	13,478,883 537,273,932 3,756,084,971 396,767,485 91.2 39.9 278.7 2,683.2 113.6 30.6 313.5
	Establishments Employment Annual Payroll (\$1,000) Receipts (\$1,000) End of Year Inventories - 2002 (\$1,000) Employment to Establishments Ratio Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average End of Year Inventories per Establishment (\$1,000) Food Manufacturing Employment to Establishments Ratio Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average End of Year Inventories per Establishment (\$1,000) Beverage and Tobacco Product Manufacturing	49,417 4,051,384 156,697,829 986,544,011 108,133,585 82.0 38.7 243.5 2,188.2 123.8 32.0 310.3 2,617.3	4,152 848,167 33,791,898 341,275,685 27,560,662 204.3 39.8 402.4 6,637.9 319.3 28.7 379.0 6,653.6	26,371 3,246,075 138,316,069 1,048,875,871 106,541,662 123.1 42.6 323.1 4,040.1 157.2 33.8 406.8 5,244.0	26,049 2,953,601 118,965,494 853,470,566 90,279,933 113.4 40.3 289.0 3,465.8 145.3 28.6 290.5 3,014.0	96,544 10,014,648 401,021,602 2,884,342,389 295,863,886 103.7 40.0 288.0 3,064.5	6,163 460,705 17,595,460 108,565,856 11,924,040 74,8 38,2 235,7 1,934,8 87,5 29,0 299,8 1,861,6	1,099,293 44,097,847 338,872,796 36,669,727 68.4 40.1 308.3 2,282.0 63.7 28.1 239.8 935.7	1,904,237 74,559,023 424,303,930 52,309,832 65.4 39.2 222.8 1,797.9 62.2 31.6 289.0 1,501.3	13,478,883 537,273,932 3,756,084,971 396,767,485 91.2 39.9 278.7 2,683.2 113.6 30.6 313.5 2,452.9
311	Establishments Employment Annual Payroll (\$1,000) Receipts (\$1,000) End of Year Inventories - 2002 (\$1,000) Employment to Establishments Ratio Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average End of Year Inventories per Establishment (\$1,000) Food Manufacturing Employment to Establishments Ratio Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average End of Year Inventories per Establishment (\$1,000) Beverage and Tobacco Product Manufacturing Employment to Establishments Ratio	49,417 4,051,384 156,697,829 986,544,011 108,133,585 82.0 38.7 243.5 2,188.2 123.8 32.0 310.3 2,617.3	4,152 848,167 33,791,898 341,275,685 27,560,662 204.3 39,8 402.4 6,637.9 319.3 28.7 379.0 6,653.6	26,371 3,246,075 138,316,969 1,048,875,871 106,541,662 123.1 42.6 323.1 4,040.1 157.2 33.8 406.8 5,244.0	26,049 2,953,601 118,965,494 853,470,566 90,279,933 113,4 40.3 289.0 3,465.8 145.3 28.6 290.5 3,014.0	96,544 10,014,648 401,021,602 2,884,342,389 295,863,886 103.7 40.0 288.0 3,064.5 147.0 30.9 327.2 3,261.9	6,163 460,705 17,595,460 108,565,856 11,924,040 74.8 38.2 235.7 1,934.8 87.5 29.0 29.8 1,861.6	1,099,293 44,097,847 338,872,796 36,669,727 68.4 40.1 308.3 2,282.0 63.7 28.1 239.8 935.7	1,904,237 74,559,023 424,303,930 52,309,832 65.4 39.2 222.8 1,797.9 62.2 31.6 289.0 1,501.3	13,478,883 537,273,932 3,756,084,971 396,767,485 91.2 39.9 278.7 2,683.2 113.6 30.6 313.5 2,452.9
311	Establishments Employment Annual Payroll (\$1,000) Receipts (\$1,000) End of Year Inventories - 2002 (\$1,000) Employment to Establishments Ratio Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average End of Year Inventories per Establishment (\$1,000) Food Manufacturing Employment to Establishments Ratio Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average Payroll per Employee (\$1,000) Average Payroll per Employee (\$1,000) Everage and Tobacco Product Manufacturing Employment to Establishments Ratio Average Payroll per Employee (\$1,000)	49,417 4,051,384 156,697,829 986,544,011 108,133,585 82.0 38.7 243.5 2,188.2 123.8 32.0 310.3 2,617.3	4,152 848,167 33,791,898 341,275,685 27,560,662 204.3 39.8 402.4 6,637.9 319.3 28.7 379.0 6,653.6	26,371 3,246,075 138,316,969 1,048,875,871 106,541,662 123.1 42.6 323.1 4,040.1 157.2 33.8 406.8 5,244.0	26,049 2,953,601 118,965,494 853,470,566 90,279,933 113,4 40,3 289,0 3,465,8 145,3 28,6 290,5 3,014,0	96,544 10,014,648 401,021,602 2,884,342,389 295,863,886 103.7 40.0 288.0 3,064.5 147.0 30.9 327.2 3,261.9	6,163 460,705 17,595,460 108,565,856 11,924,040 74.8 38.2 235.7 1,934.8 87.5 29.0 299.8 1,861.6	1,099,293 44,097,847 338,872,796 68,4 40.1 308,3 2,282.0 63.7 28.1 239.8 935.7	1,904,237 74,559,023 424,303,930 52,309,832 65,4 39,2 222,8 1,797,9 62,2 31,6 289,0 1,501,3	13,478,883 537,273,932 3,756,084,971 396,767,485 91,2 39,9 278,7 2,683,2 113,6 30,6 313,5 2,452,9
311	Establishments Employment Annual Payroll (\$1,000) Receipts (\$1,000) End of Year Inventories - 2002 (\$1,000) Employment to Establishments Ratio Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average End of Year Inventories per Establishment (\$1,000) Food Manufacturing Employment to Establishments Ratio Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average End of Year Inventories per Establishment (\$1,000) Beverage and Tobacco Product Manufacturing Employment to Establishments Ratio	49,417 4,051,384 156,697,829 986,544,011 108,133,585 82.0 38.7 243.5 2,188.2 123.8 32.0 310.3 2,617.3	4,152 848,167 33,791,898 341,275,685 27,560,662 204.3 39,8 402.4 6,637.9 319.3 28.7 379.0 6,653.6	26,371 3,246,075 138,316,969 1,048,875,871 106,541,662 123.1 42.6 323.1 4,040.1 157.2 33.8 406.8 5,244.0	26,049 2,953,601 118,965,494 853,470,566 90,279,933 113,4 40.3 289.0 3,465.8 145.3 28.6 290.5 3,014.0	96,544 10,014,648 401,021,602 2,884,342,389 295,863,886 103.7 40.0 288.0 3,064.5 147.0 30.9 327.2 3,261.9	6,163 460,705 17,595,460 108,565,856 11,924,040 74.8 38.2 235.7 1,934.8 87.5 29.0 29.8 1,861.6	1,099,293 44,097,847 338,872,796 36,669,727 68.4 40.1 308.3 2,282.0 63.7 28.1 239.8 935.7	1,904,237 74,559,023 424,303,930 52,309,832 65.4 39.2 222.8 1,797.9 62.2 31.6 289.0 1,501.3	13,478,883 537,273,932 3,756,084,971 396,767,485 91.2 39.9 278.7 2,683.2 113.6 30.6 313.5 2,452.9
311	Establishments Employment Annual Payroll (\$1,000) Receipts (\$1,000) End of Year Inventories - 2002 (\$1,000) Employment to Establishments Ratio Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average End of Year Inventories per Establishment (\$1,000) Food Manufacturing Employment to Establishments Ratio Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average and Tobacco Product Manufacturing Employment to Establishments Ratio Average and Tobacco Product Manufacturing Employment to Establishments Ratio Average Receipts per Employee (\$1,000) Average End of Year Inventories per Establishment (\$1,000)	49,417 4,051,384 156,697,829 986,544,011 108,133,585 82.0 38.7 243.5 2,188.2 123.8 32.0 310.3 2,617.3	4,152 848,167 33,791,898 341,275,685 27,560,662 204.3 39.8 402.4 6,637.9 319.3 28.7 379.0 6,653.6	26,371 3,246,075 138,316,969 1,048,875,871 106,541,662 123.1 42.6 323.1 4,040.1 157.2 33.8 406.8 5,244.0	26,049 2,953,601 118,965,494 853,470,566 90,279,933 113,4 40,3 289,0 3,465.8 145,3 28,6 290,5 3,014,0	96,544 10,014,648 401,021,602 2,884,342,389 295,863,886 103.7 40.0 288.0 3,064.5 147.0 30.9 327.2 3,261.9	6,163 460,705 17,595,460 108,565,856 11,924,040 74.8 38.2 235.7 1,934.8 87.5 29.0 299.8 1,861.6	1,099,293 44,097,847 338,872,796 36,669,727 68.4 40.1 308.3 2,282.0 63.7 28.1 239.8 935.7	1,904,237 74,559,023 424,303,930 52,309,832 65.4 39.2 222.8 1,797.9 62.2 31.6 289.0 1,501.3	13,478,883 537,273,932 3,756,084,971 396,767,485 91.2 39.9 278.7 2,683.2 113.6 30.6 313.5 2,452.9
311	Establishments Employment Annual Payroll (\$1,000) Receipts (\$1,000) End of Year Inventories - 2002 (\$1,000) Employment to Establishments Ratio Average Payroll per Employee (\$1,000) Average End of Year Inventories per Establishment (\$1,000) Food Manufacturing Employment to Establishments Ratio Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average Payroll per Employee (\$1,000) Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000) Employment to Establishments per Establishment (\$1,000) Beverage and Tobacco Product Manufacturing Employment to Establishments Ratio Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average End of Year Inventories per Establishment (\$1,000)	49,417 4,051,384 156,697,829 986,544,011 108,133,585 82.0 38.7 243.5 2,188.2 123.8 32.0 310.3 2,617.3 94.2 38.5 445.9 4,571.1	4,152 848,167 33,791,898 341,275,685 27,560,662 204,3 39.8 402,4 6,637.9 319.3 28.7 379.0 6,653.6	26,371 3,246,075 138,316,969 1,048,875,871 106,541,662 123.1 42.6 323.1 4,040.1 157.2 33.8 406.8 5,244.0 111.9 44.0 698.4 13,952.7	26,049 2,953,601 118,965,494 853,470,566 90,279,933 113,4 40,3 289,0 3,465,8 145,3 28,6 290,5 3,014,0 119,9 50,4 802,9 22,684,0	96,544 10,014,648 401,021,602 2,884,342,389 295,863,886 103.7 40.0 288.0 3,064.5 147.0 30.9 327.2 3,261.9 114.2 43.0 649.9 11,535.8	6,163 460,705 17,595,460 108,565,856 11,924,040 74.8 38.2 235.7 1,934.8 87.5 29.0 299.8 1,861.6 807.6 3,885.1	1,099,293 44,097,847 338,872,796 36,669,727 68,4 40.1 308,3 2,282.0 63.7 28.1 239.8 935.7 118.3 49.0 1,100.4 7,413.1	1,904,237 74,559,023 424,303,930 52,309,832 65,4 39,2 222,8 1,797,9 62,2 31,6 289,0 1,501,3 44,9 39,8 363,3 2,477,5	13,478,883 537,273,932 3,756,084,971 396,767,485 91.2 39.9 278.7 2,683.2 113.6 30.6 313.5 2,452.9 100.7 43.4 672.8 9,311.0
311	Establishments Employment Annual Payroll (\$1,000) Receipts (\$1,000) End of Year Inventories - 2002 (\$1,000) Employment to Establishments Ratio Average Payroll per Employee (\$1,000) Average End of Year Inventories per Establishment (\$1,000) Average End of Year Inventories per Establishment (\$1,000) Food Manufacturing Employment to Establishments Ratio Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average End of Year Inventories per Establishment (\$1,000) Beverage and Tobacco Product Manufacturing Employment to Establishments Ratio Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average End of Year Inventories per Establishment (\$1,000) Textile Mills Employment to Establishments Ratio	49,417 4,051,384 156,697,829 986,544,011 108,133,585 82.0 38.7 243.5 2,188.2 123.8 32.0 310.3 2,617.3 94.2 38.5 445.9 4,571.1	4,152 848,167 33,791,898 341,275,685 27,560,662 204,3 39,8 402,4 6,637,9 319,3 28,7 379,0 6,653,6 179,3 42,8 941,7 18,665,2	26,371 3,246,075 138,316,969 1,048,875,871 106,541,662 123.1 4,26 323.1 4,040.1 157.2 33.8 406.8 5,244.0 111.9 44.0 698.4 13,952.7	26,049 2,953,601 118,965,494 853,470,566 90,279,933 113,4 40,3 289,0 3,465.8 145.3 28.6 290.5 3,014.0 119,9 50,4 802.9 22,684.0	96,544 10,014,648 401,021,602 2,884,342,389 295,863,886 103.7 40.0 288.0 3,064.5 147.0 30.9 327.2 3,261.9 114.2 43.0 649.9 11,535.8	6,163 460,705 17,595,460 108,565,856 11,924,040 74.8 38.2 235.7 1,934.8 87.5 29.0 299.8 1,861.6 77.3 43.6 807.6 3,885.1	1,099,293 44,097,847 338,872,796 68.4 40.1 308.3 2,282.0 63.7 28.1 239.8 935.7 118.3 49.0 1,100.4 7,413.1	1,904,237 74,559,023 424,303,930 52,309,832 65.4 39.2 222.8 1,797.9 62.2 31.6 289.0 1,501.3 44.9 39.8 36.3,3 2,477.5	13,478,883 537,273,932 3,756,084,971 396,767,485 91.2 39.9 278.7 2,683.2 113.6 30.6 313.5 2,452.9 100.7 43.4 672.8 9,311.0
311	Establishments Employment Annual Payroll (\$1,000) Receipts (\$1,000) End of Year Inventories - 2002 (\$1,000) Employment to Establishments Ratio Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average End of Year Inventories per Establishment (\$1,000) Food Manufacturing Employment to Establishments Ratio Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average End of Year Inventories per Establishment (\$1,000) Beverage and Tobacco Product Manufacturing Employment to Establishments Ratio Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000) Textile Mills Employment to Establishments Ratio Average Payroll per Employee (\$1,000)	49,417 4,051,384 156,697,829 986,544,011 108,133,585 82.0 38.7 243.5 2,188.2 123.8 32.0 310.3 2,617.3 94.2 38.5 445.9 4,571.1	4,152 848,167 33,791,898 341,275,685 27,560,662 204.3 39.8 402.4 6,637.9 319.3 28.7 379.0 6,653.6	26,371 3,246,075 138,316,969 1,048,875,871 106,541,662 123.1 4,040.1 157.2 33.8 406.8 5,244.0 111.9 44.0 698.4 13,952.7	26,049 2,953,601 118,965,494 853,470,566 90,279,933 113,4 40,3 289,0 3,465,8 145,3 28,6 290,5 3,014,0 119,9 50,4 802,9 22,684,0	96,544 10,014,648 401,021,602 2,884,342,389 295,863,886 103.7 40.0 288.0 3,064.5 147.0 30.9 327.2 3,261.9 114.2 43.0 649.9 11,535.8	6,163 460,705 17,595,460 108,565,856 11,924,040 74.8 38.2 235.7 1,934.8 87.5 29.0 29.8 1,861.6 807.6 3,885.1	1,099,293 44,097,847 338,872,796 36,669,727 68,4 40,1 308,3 2,282,0 63,7 28,1 239,8 935,7 118,3 49,0 1,100,4 7,413,1	1,904,237 74,559,023 424,303,930 52,309,832 65.4 39.2 222.8 1,797.9 62.2 31.6 289.0 1,501.3 44.9 39.8 363.3 2,477.5	13,478,883 537,273,932 3,756,084,971 396,767,485 91.2 39.9 278.7 2,683.2 113.6 30.6 313.5 2,452.9 100.7 43.4 672.8 9,311.0
311	Establishments Employment Annual Payroll (\$1,000) Receipts (\$1,000) End of Year Inventories - 2002 (\$1,000) Employment to Establishments Ratio Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average End of Year Inventories per Establishment (\$1,000) Food Manufacturing Employment to Establishments Ratio Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average and Tobacco Product Manufacturing Employment to Establishments Ratio Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average Payroll per Employee (\$1,000) Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average Receipts per Employee (\$1,000)	49,417 4,051,384 156,697,829 986,544,011 108,133,585 82.0 38.7 243.5 2,188.2 123.8 32.0 310.3 2,617.3 94.2 38.5 445.9 4,571.1	4,152 848,167 33,791,898 341,275,685 27,560,662 204.3 39.8 402.4 6,637.9 319.3 28.7 379.0 6,653.6 179.3 42.8 941.7 18,665.2 209.3 28.5 213.5	26,371 3,246,075 138,316,969 1,048,875,871 106,541,662 123.1 4,040.1 157.2 33.8 4,040.1 111.9 44.0 698.4 13,952.7	26,049 2,953,601 118,965,494 853,470,566 90,279,933 113,4 40,3 289,0 3,465,8 145,3 28,6 290,5 3,014,0 119,9 50,4 802,9 22,684,0 150,8 28,3 177,5	96,544 10,014,648 401,021,602 2,884,342,389 295,863,886 103,7 40,00 288,0 3,064,5 147,0 30,9 327,2 3,261,9 114,2 43,0 649,9 11,535,8	6,163 460,705 17,595,460 108,565,856 11,924,040 74.8 38.2 235.7 1,934.8 87.5 29.0 299.8 1,861.6 77.3 43.6 807.6 3,885.1 70.1 28.3	1,099,293 44,097,847 338,872,796 68,4 40.1 308,3 2,282.0 63.7 28.1 239.8 935.7 118.3 49.0 1,100.4 7,413.1	1,904,237 74,559,023 424,303,930 52,309,832 65,4 39,2 222,8 1,797,9 62,2 31,6 289,0 1,501,3 44,9 39,8 363,3 2,477,5	13,478,883 537,273,932 3,756,084,971 396,767,485 91,2 39,9 278.7 2,683,2 113.6 30.6 313.5 2,452,9 100.7 43.4 672.8 9,311.0 118.3 28.6 171.5
311	Establishments Employment Annual Payroll (\$1,000) Receipts (\$1,000) End of Year Inventories - 2002 (\$1,000) Employment to Establishments Ratio Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average End of Year Inventories per Establishment (\$1,000) Food Manufacturing Employment to Establishments Ratio Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average Receipts per Employee (\$1,000) Average End of Year Inventories per Establishment (\$1,000) Beverage and Tobacco Product Manufacturing Employment to Establishments Ratio Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000) Textile Mills Employment to Establishments Ratio Average Payroll per Employee (\$1,000)	49,417 4,051,384 156,697,829 986,544,011 108,133,585 82.0 38.7 243.5 2,188.2 123.8 32.0 310.3 2,617.3 94.2 38.5 445.9 4,571.1	4,152 848,167 33,791,898 341,275,685 27,560,662 204.3 39.8 402.4 6,637.9 319.3 28.7 379.0 6,653.6	26,371 3,246,075 138,316,969 1,048,875,871 106,541,662 123.1 4,040.1 157.2 33.8 406.8 5,244.0 111.9 44.0 698.4 13,952.7	26,049 2,953,601 118,965,494 853,470,566 90,279,933 113,4 40,3 289,0 3,465,8 145,3 28,6 290,5 3,014,0 119,9 50,4 802,9 22,684,0	96,544 10,014,648 401,021,602 2,884,342,389 295,863,886 103.7 40.0 288.0 3,064.5 147.0 30.9 327.2 3,261.9 114.2 43.0 649.9 11,535.8	6,163 460,705 17,595,460 108,565,856 11,924,040 74.8 38.2 235.7 1,934.8 87.5 29.0 29.8 1,861.6 807.6 3,885.1	1,099,293 44,097,847 338,872,796 36,669,727 68,4 40,1 308,3 2,282,0 63,7 28,1 239,8 935,7 118,3 49,0 1,100,4 7,413,1	1,904,237 74,559,023 424,303,930 52,309,832 65.4 39.2 222.8 1,797.9 62.2 31.6 289.0 1,501.3 44.9 39.8 363.3 2,477.5	13,478,883 537,273,932 3,756,084,971 396,767,485 91.2 39.9 278.7 2,683.2 113.6 30.6 313.5 2,452.9 100.7 43.4 672.8 9,311.0

 $* A sample of 2002 \ Economic \ Census \ Question \ 28 \ is \ available \ at \ http://help.econ.census.gov/2002 forms/mc31101.pdf$

NAICS	Description	Activity Performed by this Establishment	Activity Performed by Another Establishment	Activity Performed by Another Company	Activity not Performed	Total Establishments Responding to at least One Item on Question	Non – Response on question but Reported other Supply Chain Information	Reported but Supply Chain Question Reply was Invalid	Non-responding Establishments	Total Establishments Mailed
	Employment to Establishments Ratio	59.8	174.2	91.0	108.1	84.9	48.4	44.4	51.2	66.3
	Average Payroll per Employee (\$1,000)	26.2	24.9	27.4	26.5	26.6	25.5	25.7	25.8	26.3
	Average Receipts per Employee (\$1,000)	134.6	300.9	162.0	203.2	179.8	138.6	282.7	152.6	187.5
	Average End of Year Inventories per Establishment (\$1,000)	1,148.0	7,954.1	2,183.0	2,410.9	1,968.3	771.5	263.0	888.0	1,286.1
315	Apparel Manufacturing									
	Employment to Establishments Ratio	78.6	177.7	71.2	76.4	79.6	64.9	45.7	49.2	62.7
	Average Payroll per Employee (\$1,000)	24.3	22.0	25.3	21.1	23.0	21.1	20.9	22.2	22.4
	Average Receipts per Employee (\$1,000)	159.6	147.9	159.9	118.3	142.0	128.8	160.0	136.1	141.3
	Average End of Year Inventories per Establishment (\$1,000)	1,815.1	2,103.5	1,438.1	1,088.7	1,414.7	812.8	808.5	1,058.2	1,161.2
316	Leather and Allied Product Manufacturing									
310	Employment to Establishments Ratio	59.8	156.1	64.5	71.5	70.1	59.3	33.2	60.2	62.6
	Average Payroll per Employee (\$1,000)	27.6	24.8	28.7	25.3	26.3	23.5		27.1	26.2
	Average Receipts per Employee (\$1,000)	149.8	190.9	151.5	184.6	169.3	121.8	117.3	97.3	144.4
	Average End of Year Inventories per Establishment (\$1,000)	1,465.0	2,355.7	1,753.0	1,473.7	1,536.6	787.9	707.4	982.0	1,246.4
321	Wood Product Manufacturing Employment to Establishments Ratio	61.4	147.6	108.9	72.4	74.9	54.2	41.0	42.7	64.2
	Average Payroll per Employee (\$1,000)	30.0	37.4	33.0	30.0	30.9	28.3	28.2	28.3	30.3
	Average Receipts per Employee (\$1,000) Average Receipts per Employee (\$1,000)	159.5	202.1	187.2	174.8	172.0	168.4	172.8	153.5	169.5
	Average End of Year Inventories per Establishment (\$1,000)	1,069.4	2,464.4	2.011.9	1,571.4	1,389.2	1,090.4	794.8	675.7	1,174.4
	Trougo Esta of Total Inventories per Establishment (\$1,000)	1,005.1	2,101.1	2,011.9	1,071.1	1,505.2	1,000.1	7,71.0	075.7	1,17
322	Paper Manufacturing									
	Employment to Establishments Ratio	113.9	166.3	141.7	160.8	131.3	123.2	72.3	73.0	119.4
	Average Payroll per Employee (\$1,000)	41.9	45.0	44.5	48.6	44.4	42.6	41.6	40.6	43.9
	Average Receipts per Employee (\$1,000)	271.3	368.5	322.9	411.7	323.0	303.0	289.8	244.2	315.0
	Average End of Year Inventories per Establishment (\$1,000)	2,850.1	5,485.5	4,630.1	5,746.7	3,937.4	3,051.8	1,649.2	1,882.7	3,486.4
323	Printing and Related Support Activities									
	Employment to Establishments Ratio	60.5	196.9	80.6	68.3	70.5	65.4	40.8	41.9	60.8
	Average Payroll per Employee (\$1,000)	37.3	37.4	39.1	36.1	37.3	33.1	36.2	38.7	37.2
	Average Receipts per Employee (\$1,000)	131.8	165.7	158.8	148.4	144.2	127.6	131.6	139.6	141.8
	Average End of Year Inventories per Establishment (\$1,000)	502.3	1,832.9	840.9	628.2	649.6	587.8	344.2	346.7	548.0
324	Petroleum and Coal Products Manufacturing									
	Employment to Establishments Ratio	49.9	147.9	61.9	61.7	62.3	32.8	35.8	39.7	55.1
	Average Payroll per Employee (\$1,000)	56.7	69.2	60.8	64.3	61.9	50.4	55.4	55.0	60.5
	Average Receipts per Employee (\$1,000)	2,082.0	3,061.9	2,165.7	2,571.8	2,384.1	901.7	1,561.1	1,136.4	2,163.2
	Average End of Year Inventories per Establishment (\$1,000)	6,402.6	27,482.5	8,181.6	11,689.1	9,919.3	2,511.1	4,343.8	1,987.3	7,895.7
325	Chemical Manufacturing									
323	Employment to Establishments Ratio	100.7	203.5	143.1	102.9	110.9	101.2	70.0	61.8	97.8
	Average Payroll per Employee (\$1,000)	54.0	52.6	56.9	51.5	53.2	50.3	49.8	51.6	52.6
	Average Receipts per Employee (\$1,000)	523.9	696.7	609.1	558.1	579.5	536.5	444.5	450.9	553.7
	Average End of Year Inventories per Establishment (\$1,000)	5,625.2	12,174.8	8,498.1	6,491.3	6,683.2	7,185.4	2,762.2	3,030.7	5,655.1
326	Plastics and Rubber Products Manufacturing									
320	Employment to Establishments Ratio	89.6	196.8	120.4	117.4	109.1	82.2	66.9	67.6	97.5
	Average Payroll per Employee (\$1,000)	32.2	38.4	34.5	34.6	33.9	31.3		31.9	
	Average Receipts per Employee (\$1,000)	172.5	218.5	192.1	183.0	184.3	151.1	140.4	167.5	179.0
	Average End of Year Inventories per Establishment (\$1,000)	1,436.9	3,531.1	2,242.4	1,797.8	1,836.0	1,082.3	1,064.0	938.8	1,589.7
327	Nonmetallic Mineral Product Manufacturing									
321	Employment to Establishments Ratio	34.8	75.3	86.7	73.9	48.7	49.9	31.6	38.0	45.0
	Average Payroll per Employee (\$1,000)	36.7	37.3	38.8	38.8	37.8	34.9	35.4	37.6	
	Average Receipts per Employee (\$1,000)	196.5	229.9	214.8	209.4	206.5	147.6	186.7	187.6	200.7
	Average End of Year Inventories per Establishment (\$1,000)	579.3	2,084.2	2,360.3	1,773.4	1,047.8	991.6	526.8	646.6	920.9
			·							
331	Primary Metal Manufacturing									

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NAICS	Description	Activity Performed by this Establishment	Activity Performed by Another Establishment	Activity Performed by Another Company	Activity not Performed	Total Establishments Responding to at least One Item on Question	Non – Response on question but Reported other Supply Chain Information	Reported but Supply Chain Question Reply was Invalid	Non-responding Establishments	Total Establishments Mailed
	Employment to Establishments Ratio	122.7	201.5		160.9	151.9	115.9	93.8	121.9	140.6
	Average Payroll per Employee (\$1,000)	41.6	42.5		44.4	43.8	43.0		42.7	43.8
	Average Receipts per Employee (\$1,000)	262.3	309.2		293.2	292.8	293.2		254.8	286.1
	Average End of Year Inventories per Establishment (\$1,000)	4,669.8	8,429.2	8,485.2	5,768.0	6,194.6	3,693.1	4,812.1	4,327.2	5,664.4
332	Fabricated Metal Product Manufacturing									
	Employment to Establishments Ratio	56.9	99.5	76.5	67.9	65.0	55.0	43.0	48.8	59.9
	Average Payroll per Employee (\$1,000)	36.9	39.8		37.0	37.2	37.7	35.5	37.1	37.1
	Average Receipts per Employee (\$1,000)	153.3	188.0	182.2	177.3	168.8	160.0	148.9	153.9	165.1
	Average End of Year Inventories per Establishment (\$1,000)	1,089.5	2,187.1	1,895.2	1,438.9	1,392.0	1,344.4	890.7	908.4	1,259.7
333	Machinery Manufacturing									
333	Employment to Establishments Ratio	77.6	158.4	105.9	81.1	89.3	67.3	58.2	62.6	80.8
	Average Payroll per Employee (\$1,000)	42.5	40.1		42.6	43.0	43.2	42.4	42.7	42.9
	Average Receipts per Employee (\$1,000)	203.0	262.6		227.5	222.1	234.1	173.4	238.9	222.2
	Average End of Year Inventories per Establishment (\$1,000)	2,436.3	5,118.2	3,914.8	3,290.2	3,201.3	2,032.7	1,750.9	2,450.9	2,891.9
224										
334	Computer and Electronic Product Manufacturing	1441	210.0	102.2	125.5	150.4	00.0	120.0	121.0	1450
	Employment to Establishments Ratio	144.1	318.9 53.1		136.5	157.4	92.2 53.4	139.0 52.4	131.8	145.9
	Average Payroll per Employee (\$1,000)	48.6			49.7	50.7			53.0	51.4
	Average Receipts per Employee (\$1,000)	227.2 6,017.5	375.0 12,734.2		280.4 4.985.9	293.7	181.7 2,650.0	368.5 4,828.6	258.4 4,797.3	289.1 5,303.5
	Average End of Year Inventories per Establishment (\$1,000)	6,017.5	12,/34.2	5,/5/.0	4,985.9	5,815.7	2,650.0	4,828.6	4,/9/.3	5,303.5
335	Electrical Equipment, Appliance, and Component Manufacturing									
	Employment to Establishments Ratio	122.0	277.5		149.1	150.6	77.2		96.2	131.5
	Average Payroll per Employee (\$1,000)	36.7	38.0		35.6	36.6	36.9		37.1	36.6
	Average Receipts per Employee (\$1,000)	206.1	243.8	226.6	218.9	222.0	196.8	170.0	190.0	214.0
	Average End of Year Inventories per Establishment (\$1,000)	3,157.2	5,496.2	4,200.0	3,241.8	3,641.9	2,200.3	2,400.7	2,570.8	3,265.0
336	Transportation Equipment Manufacturing									
	Employment to Establishments Ratio	206.5	386.2	317.2	296.5	265.4	165.8	308.1	133.9	241.7
	Average Payroll per Employee (\$1,000)	46.4	50.4	51.0	50.0	48.9	46.3	52.8	47.7	49.3
	Average Receipts per Employee (\$1,000)	286.4	425.3	474.2	358.3	377.9	322.6	525.3	272.9	386.0
	Average End of Year Inventories per Establishment (\$1,000)	7,565.1	12,000.6	10,057.8	9,005.9	8,082.9	4,445.8	21,686.1	5,839.8	8,974.8
337	Furniture and Related Product Manufacturing									
33/	Employment to Establishments Ratio	72.9	226.1	122.5	94.7	91.4	56.3	46.6	62.9	76.7
	Average Payroll per Employee (\$1,000)	30.4	35.5		27.9	30.1	26.6		29.6	29.6
	Average Receipts per Employee (\$1,000)	132.3	145.0	142.8	120.6	133.6	115.4	127.6	139.1	133.2
	Average End of Year Inventories per Establishment (\$1,000)	909.7	3,391.0		1,418.6	1,247.3	664.3	612.6	928.3	1,050.9
339	Miscellaneous Manufacturing	65.8	219.8	94.2	79.0	81.7	51.2	41.9	56.5	69.8
	Employment to Establishments Ratio Average Payroll per Employee (\$1,000)	36.7	40.2		36.8	38.2	33.9		36.1	37.7
	Average Receipts per Employee (\$1,000) Average Receipts per Employee (\$1,000)	158.3	236.3	197.1	193.5	185.2	161.0		169.2	179.8
	Average End of Year Inventories per Establishment (\$1,000)	1,665.1	6,824.4		1,804.9	2,132.5	1,161.5		1,370.8	1,768.4
	[distance delivery (beyo		-	2,2020	2,4411	2,0.000	2,1.001.
		Qi	testion 20.A.2.1. Long	distance delivery (beyo	nu iocai ai cas anc	Commercial zones)				
31	Manufacturing Establishments	31,110	5,095	43,907	24.006	96,276	6,431	16,069	29.095	147,871
	Employment	3,618,263	1,074,159	4,966,441	1,686,979	10,098,538	376,815	1,099,293	1,904,237	13,478,883
	Annual Payroll (\$1,000)	143,947,165	43,053,474	205,397,859	66,116,377	405,088,464	13,528,598	44,097,847	74,559,023	537,273,932
	Receipts (\$1,000)	1,010,432,198	416,626,858	1,437,845,234	471,208,463	2,909,715,288	83,192,957	338,872,796	424,303,930	3,756,084,971
	End of Year Inventories - 2002 (\$1,000)	109,417,963	36,044,943	152,123,842	44,839,616	298,499,070	9,288,856	36,669,727	52,309,832	396,767,485
	Employment to Establishments Ratio	116.3	210.8	113.1	70.3	104.9	58.6	68.4	65.4	91.2
	Average Payroll per Employee (\$1,000)	39.8	40.1	41.4	39.2	40.1	35.9	40.1	39.2	39.9
	Average Receipts per Employee (\$1,000)	279.3	387.9		279.3	288.1	220.8	308.3	222.8	278.7
	Average End of Year Inventories per Establishment (\$1,000)	3,517.1	7,074.6	3,464.7	1,867.9	3,100.5	1,444.4		1,797.9	2,683.2
311	Food Manufacturing									

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NAICS	Description	Activity Performed by this Establishment	Activity Performed by Another Establishment	Activity Performed by Another Company	Activity not Performed	Total Establishments Responding to at least One Item on Question	Non – Response on question but Reported other Supply Chain Information	Reported but Supply Chain Question Reply was Invalid	Non-responding Establishments	Total Establishments Mailed
	Employment to Establishments Ratio	171.3	307.8	153.6	80.0		61.8	63.7	62.2	113.6
	Average Payroll per Employee (\$1,000)	31.9	29.2	32.5	27.7	30.9	28.4	28.1	31.6	30.6
	Average Receipts per Employee (\$1,000)	329.8	370.0	348.5	261.9	327.6	276.1	239.8	289.0	313.5
	Average End of Year Inventories per Establishment (\$1,000)	3,740.7	6,155.9	4,274.8	1,510.7	3,296.4	1,419.2	935.7	1,501.3	2,452.9
312	Beverage and Tobacco Product Manufacturing									
	Employment to Establishments Ratio	127.5	186.3	99.6	100.0	114.5	79.3	118.3	44.9	100.7
	Average Payroll per Employee (\$1,000)	41.8	38.2	41.2	50.0		41.6		39.8	43.4
	Average Receipts per Employee (\$1,000)	546.1	946.7	603.7	745.6	647.8	831.9	1,100.4	363.3	672.8
	Average End of Year Inventories per Establishment (\$1,000)	6,031.9	22,040.7	12,123.9	15,955.4	11,653.3	3,212.1	7,413.1	2,477.5	9,311.0
313	Textile Mills									
	Employment to Establishments Ratio	157.7	233.7	130.0	130.8	144.1	63.9	66.0	89.4	118.3
	Average Payroll per Employee (\$1,000)	29.5	27.9	30.8	28.3	29.2	27.8	25.2	27.5	28.6
	Average Receipts per Employee (\$1,000)	178.9	196.1	201.5	158.8	181.8	141.2	159.1	138.2	171.5
	Average End of Year Inventories per Establishment (\$1,000)	3,124.1	4,619.1	3,037.9	1,518.0	2,678.9	1,231.8	985.7	1,511.3	2,137.0
314	Textile Product Mills									
	Employment to Establishments Ratio	85.6	177.4	87.4	75.6	85.8	43.5	44.4	51.2	66.3
	Average Payroll per Employee (\$1,000)	26.7	26.1	26.6	27.1	26.7	24.6	25.7	25.8	26.3
	Average Receipts per Employee (\$1,000)	167.3	282.3	151.0	215.6	180.8	123.0	282.7	152.6	187.5
	Average End of Year Inventories per Establishment (\$1,000)	2,099.7	6,580.4	1,906.3	1,352.9	1,981.1	736.6	263.0	888.0	1,286.1
315	Apparel Manufacturing									
313	Employment to Establishments Ratio	84.3	180.8	76.1	67.2	79.6	65.2	45.7	49.2	62.7
	Average Payroll per Employee (\$1,000)	24.7	22.2	24.5	20.6	23.0	20.8	20.9	22.2	22.4
	Average Receipts per Employee (\$1,000)	172.0	149.9	162.1	95.4	142.0	128.1	160.0	136.1	141.3
	Average End of Year Inventories per Establishment (\$1,000)	1,893.5	2,179.1	1,607.6	885.4	1,418.2	773.5	808.5	1,058.2	1,161.2
316	Leather and Allied Product Manufacturing									
310	Employment to Establishments Ratio	59.3	156.7	72.1	61.4	71.4	42.3	33.2	60.2	62.6
	Average Payroll per Employee (\$1,000)	27.4	25.1	26.1	25.8	26.2	24.7	23.2	27.1	26.2
	Average Receipts per Employee (\$1,000)	228.4	233.1	142.1	146.7	168.1	113.5	117.3	97.3	144.4
	Average End of Year Inventories per Establishment (\$1,000)	1,531.0	3,260.2	1,669.9	1,054.1	1,559.6	394.3	707.4	982.0	1,246.4
321	Wood Product Manufacturing									
321	Employment to Establishments Ratio	72.1	136.5	93.8	53.6	75.6	48.6	41.0	42.7	64.2
	Average Payroll per Employee (\$1,000)	30.9	32.6	32.5	29.0	30.9	28.1	28.2	28.3	30.3
	Average Receipts per Employee (\$1,000)	174.9	191.6	179.6	148.8	172.5	159.1	172.8	153.5	169.5
	Average End of Year Inventories per Establishment (\$1,000)	1,384.3	2,493.7	1,790.8	900.7	1,407.0	906.0	794.8	675.7	1,174.4
322	Paper Manufacturing									
322	Employment to Establishments Ratio	139.0	199.5	140.5	77.1	132.6	86.1	72.3	73.0	119.4
	Average Payroll per Employee (\$1,000)	43.4	45.7	45.4	42.0	44.5	37.5	41.6	40.6	43.9
	Average Receipts per Employee (\$1,000)	320.8	360.1	318.3	336.5	324.2	241.8	289.8	244.2	315.0
	Average End of Year Inventories per Establishment (\$1,000)	3,902.2	6,090.9	4,506.2	2,138.4	3,983.3	1,833.1	1,649.2	1,882.7	3,486.4
323	Printing and Related Support Activities									
323	Employment to Establishments Ratio	77.5	211.1	71.9	51.8	72.0	46.7	40.8	41.9	60.8
	Average Payroll per Employee (\$1,000)	35.2		38.2	36.2	37.0	37.7		38.7	37.2
	Average Receipts per Employee (\$1,000)	140.0	162.6	146.2	134.9	143.8	132.3	131.6	139.6	141.8
	Average End of Year Inventories per Establishment (\$1,000)	731.3	2,078.5	697.9	388.1	668.9	344.7	344.2	346.7	548.0
324	Petroleum and Coal Products Manufacturing									
324	Employment to Establishments Ratio	79.5	243.7	82.6	30.7	62.4	31.1	35.8	39.7	55.1
	Average Payroll per Employee (\$1,000)	60.8	70.4	59.7	59.9	61.9	48.8	55.4	55.0	60.5
	Average Receipts per Employee (\$1,000) Average Receipts per Employee (\$1,000)	2,400.9	3,179.8	2.009.9	2,373.8	2,382,9	819.8	1,561.1	1,136.4	2,163.2
	Average End of Year Inventories per Establishment (\$1,000)	11,310.7	49,628.8	9,989.5	5,174.1	9,927.8	2,127.2	4,343.8	1,987.3	7,895.7
225			· ·						-	
325	Chemical Manufacturing					1				

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NAICS	Description	Activity Performed by this Establishment	Activity Performed by Another Establishment	Activity Performed by Another Company	Activity not Performed	Total Establishments Responding to at least One Item on Question	Non – Response on question but Reported other Supply Chain Information	Reported but Supply Chain Question Reply was Invalid	Non-responding Establishments	Total Establishments Mailed
	Employment to Establishments Ratio	124.9	202.3	132.8	62.8	111.7	84.0	70.0	61.8	97.8
	Average Payroll per Employee (\$1,000)	55.5	55.1	55.3	45.0	53.1	49.8	49.8	51.6	52.6
	Average Receipts per Employee (\$1,000)	555.5	707.5	600.5	505.1	579.5	523.9	444.5	450.9	553.7
	Average End of Year Inventories per Establishment (\$1,000)	7,153.2	12,711.4	7,981.1	3,751.0	6,746.2	5,863.7	2,762.2	3,030.7	5,655.1
326	Plastics and Rubber Products Manufacturing									
	Employment to Establishments Ratio	116.7	176.8	116.4	80.6	110.5	57.9	66.9	67.6	97.5
	Average Payroll per Employee (\$1,000)	33.5	35.7	34.1	33.7	33.8	30.9	29.8	31.9	
	Average Receipts per Employee (\$1,000)	189.0	204.2	186.0	167.3	184.0	148.5	140.4	167.5	179.0
	Average End of Year Inventories per Establishment (\$1,000)	1,888.9	3,046.9	2,069.9	1,197.0	1,853.0	793.2	1,064.0	938.8	1,589.7
327	Nonmetallic Mineral Product Manufacturing									
	Employment to Establishments Ratio	50.9	77.8	91.3	28.4	49.6	33.9	31.6	38.0	45.0
	Average Payroll per Employee (\$1,000)	37.0	37.0		38.1	37.8	35.0	35.4	37.6	
	Average Receipts per Employee (\$1,000)	199.8	225.3	203.4	215.0		155.1	186.7	187.6	200.7
	Average End of Year Inventories per Establishment (\$1,000)	1,038.9	1,836.1	2,392.1	443.2	1,075.1	559.4	526.8	646.6	920.9
331	Primary Metal Manufacturing									
	Employment to Establishments Ratio	168.8	239.5	162.8	97.1	152.4	101.1	93.8	121.9	140.6
	Average Payroll per Employee (\$1,000)	42.8	43.1	44.3	44.3	43.9	40.6	47.2	42.7	43.8
	Average Receipts per Employee (\$1,000)	289.5	270.3	305.7	237.8	294.0	251.8	278.9	254.8	286.1
	Average End of Year Inventories per Establishment (\$1,000)	6,958.7	8,915.9	7,241.8	2,506.5	6,210.4	3,150.8	4,812.1	4,327.2	5,664.4
332	Fabricated Metal Product Manufacturing									
	Employment to Establishments Ratio	75.5	109.0	68.1	47.4	65.3	50.1	43.0	48.8	59.9
	Average Payroll per Employee (\$1,000)	36.5	38.2	37.6	36.7	37.2	37.8	35.5	37.1	37.1
	Average Receipts per Employee (\$1,000)	175.5	193.2	169.4	152.5	169.1	154.1	148.9	153.9	165.1
	Average End of Year Inventories per Establishment (\$1,000)	1,639.4	2,424.8	1,511.6	859.9	1,400.8	1,194.0	890.7	908.4	1,259.7
333	Machinery Manufacturing									
	Employment to Establishments Ratio	101.8	154.6	91.2	63.7	89.6	60.3	58.2	62.6	80.8
	Average Payroll per Employee (\$1,000)	42.4	40.6	43.5	43.8	43.1	41.6	42.4	42.7	42.9
	Average Receipts per Employee (\$1,000) Average End of Year Inventories per Establishment (\$1,000)	219.2 3,784.4	265.5 5,043.7	230.4 3,214.8	206.3 2,334.9	223.8 3,221.6	196.0 1,636.1	173.4 1,750.9	238.9 2,450.9	222.2 2,891.9
	Average End of Tear Inventories per Establishment (\$1,000)	3,704.4	5,045.7	3,214.0	2,334.7	3,221.0	1,030.1	1,750.9	2,430.7	2,071.7
334	Computer and Electronic Product Manufacturing	195.5	287.2	166.2	96.7	158.2	74.1	139.0	131.8	145.9
	Employment to Establishments Ratio	51.3	51.4	51.5	49.3	51.1	43.8	52.4	53.0	51.4
	Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000)	248.8	282.5	323.7	311.0	292.0	180.3	368.5	258.4	289.1
	Average End of Year Inventories per Establishment (\$1,000)	8,338.5	11,297.1	5,244.0	3,748.9	5,810.8	2,313.9	4,828.6	4,797.3	5,303.5
		0,550.5	11,27,11	3,21110	3,710.5	5,610.0	2,515.5	1,020.0	1,771.3	5,505.5
335	Electrical Equipment, Appliance, and Component Manufacturing Employment to Establishments Ratio	169.2	291.7	144.4	111.7	150.3	69.0	87.7	96.2	131.5
	Average Payroll per Employee (\$1,000)	36.0	36.4	37.5	37.2	36.7	34.6	35.3	37.1	36.6
	Average Receipts per Employee (\$1,000) Average Receipts per Employee (\$1,000)	221.3	244.8	216.7	225.3	221.8	198.1	170.0	190.0	214.0
	Average End of Year Inventories per Establishment (\$1,000)	4,297.9	5,922.9	3,689.3	2,558.4	3,649.7	1,787.3	2,400.7	2,570.8	3,265.0
336	Transportation Equipment Manufacturing									
550	Employment to Establishments Ratio	269.8	431.3	279.8	258.2	267.4	115.0	308.1	133.9	241.7
	Average Payroll per Employee (\$1,000)	46.3	51.1	50.3	50.9	49.1	39.7	52.8	47.7	49.3
	Average Receipts per Employee (\$1,000)	293.8	364.0	400.9	414.0	376.5	335.9	525.3	272.9	386.0
	Average End of Year Inventories per Establishment (\$1,000)	10,172.0	17,029.0	9,510.0	5,996.5	8,139.8	2,866.9	21,686.1	5,839.8	8,974.8
337	Furniture and Related Product Manufacturing									
	Employment to Establishments Ratio	96.4	225.4	108.3	51.3	93.2	44.3	46.6	62.9	76.7
	Average Payroll per Employee (\$1,000)	29.9	34.7	29.9	28.8	30.1	27.0	27.1	29.6	29.6
	Average Receipts per Employee (\$1,000)	138.5	142.8	135.8	113.8	133.3	117.9	127.6	139.1	133.2
	Average End of Year Inventories per Establishment (\$1,000)	1,255.1	3,356.0	1,570.1	651.6	1,272.6	493.6	612.6	928.3	1,050.9
339	Miscellaneous Manufacturing									

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	Employment to Establishments Ratio	80.7	186.8	87.6	64.2		44.7	41.9	56.5	69.8
	Average Payroll per Employee (\$1,000)	36.6	41.2	38.9	36.5	38.1	34.6	38.3	36.1	37.7
	Average Receipts per Employee (\$1,000)	177.0	258.1	183.4	189.9	184.7	166.4	162.6	169.2	179.8
	Average End of Year Inventories per Establishment (\$1,000)	2,165.6	6,226.3	2,310.6	1,371.3	2,140.1	1,022.3	908.7	1,370.8	1,768.4
			28.A.	2.g. Processing of Retu	rned Merchandis	e				
31	Manufacturing									
	Establishments	65,335	4,014	2,390	28,122	96,538	6,169	16,069	29,095	147,87
	Employment	7,495,017	953,594	511,953	1,950,914	10,044,301	431,052	1,099,293	1,904,237	13,478,883
	Annual Payroll (\$1,000)	298,821,051	39,754,447	25,127,673	78,163,491	401,575,402	17,041,660	44,097,847	74,559,023	537,273,932
	Receipts (\$1,000)	2,004,145,442	380,563,249	216,074,205	626,719,590	2,881,652,917	111,255,328	338,872,796	424,303,930	3,756,084,971
	End of Year Inventories - 2002 (\$1,000)	222,405,080	34,935,848	21,390,986	50,809,981	294,053,740	13,734,186	36,669,727	52,309,832	396,767,485
	Employment to Establishments Ratio	114.7	237.6	214.2	69.4	104.0	69.9	68.4	65.4	91.2
	Average Payroll per Employee (\$1,000)	39.9 267.4	41.7 399.1	49.1	40.1 321.2	40.0 286.9	39.5 258.1	40.1 308.3	39.2 222.8	39.9 278.7
	Average Receipts per Employee (\$1,000) Average End of Year Inventories per Establishment (\$1,000)	3,404.1	8,703.5	422.1 8,950.2	1,806.8	3,046.0	2,226.3	2,282.0	1,797.9	2,683.2
		3,101.12	0,703.3	0,550.2	1,000.0	3,010.0	2,220.0	2,202.0	1,777.2	2,003.
311	Food Manufacturing	4	AF	***	40		e- :			2
	Employment to Establishments Ratio	164.1	275.8	209.6	103.5	147.1	85.4	63.7	62.2	113.0
	Average Payroll per Employee (\$1,000)	31.1	31.7	36.1	29.4	30.8	31.2	28.1	31.6	30.0
	Average Receipts per Employee (\$1,000)	332.1	422.4 6,833.0	403.2 8,706.4	292.6 1,928.7	326.6 3,257.0	314.2 1,929.7	239.8 935.7	289.0 1,501.3	313.5
	Average End of Year Inventories per Establishment (\$1,000)	3,790.1	0,833.0	8,706.4	1,928.7	3,257.0	1,929.7	933.7	1,501.3	2,452.9
312	Beverage and Tobacco Product Manufacturing									
	Employment to Establishments Ratio	126.5	208.2	116.4	70.8		136.7	118.3	44.9	
	Average Payroll per Employee (\$1,000)	42.9	44.3	54.7	42.5	43.0	43.4	49.0	39.8	43.4
	Average Receipts per Employee (\$1,000)	536.8	1,139.0	433.3	811.6	665.3	548.0	1,100.4	363.3	672.8
	Average End of Year Inventories per Establishment (\$1,000)	10,641.3	32,460.7	11,973.1	10,917.4	12,041.1	2,623.8	7,413.1	2,477.5	9,311.0
313	Textile Mills									
	Employment to Establishments Ratio	148.0	208.5	125.4	127.2	142.4	65.6	66.0	89.4	118.3
	Average Payroll per Employee (\$1,000)	30.0	28.6	37.2	27.5	29.1	28.6	25.2	27.5	28.0
	Average Receipts per Employee (\$1,000) Average End of Year Inventories per Establishment (\$1,000)	181.4 3,047.5	221.6 4,415.7	293.7 4,190.1	177.2 1,531.8	181.6 2,664.4	138.6 989.1	159.1 985.7	138.2 1,511.3	171.5 2,137.0
		,	,						•	
314	Textile Product Mills Employment to Establishments Ratio	89.5	130.7	148.9	65.2	83.4	44.8	44.4	51.2	66.3
	Average Payroll per Employee (\$1,000)	26.6	25.6	29.9	27.1	26.6	25.3	25.7	25.8	26.3
	Average Receipts per Employee (\$1,000)	164.9	303.5	208.3	231.4	180.4	91.8	282.7	152.6	187.5
	Average End of Year Inventories per Establishment (\$1,000)	2,286.3	5,351.1	2,757.2	776.9	1,933.8	452.9	263.0	888.0	1,286.
315	Apparel Manufacturing									
313	Employment to Establishments Ratio	83.5	173.0	66.3	57.0	80.5	54.3	45.7	49.2	62.
	Average Payroll per Employee (\$1,000)	25.4	20.9	23.8	18.0	23.0	20.9	20.9	22.2	22.4
	Average Receipts per Employee (\$1,000)	153.9	184.1	145.2	90.4		139.8	160.0	136.1	141.3
	Average End of Year Inventories per Establishment (\$1,000)	1,985.0	2,001.4	1,322.0	452.2	1,432.2	538.9	808.5	1,058.2	1,161.2
21.6	V. dans d.A.W. d.D. dans Man Control									
316	Leather and Allied Product Manufacturing Employment to Establishments Ratio	66.6	146.4	98.2	44.9	70.0	50.3	33.2	60.2	62.0
	Average Payroll per Employee (\$1,000)	27.3	20.9	24.8	25.8	26.1	26.8	23.2	27.1	26.3
	Average Receipts per Employee (\$1,000)	160.2	145.5	197.3	234.1	165.0	174.4	117.3	97.3	144.4
	Average End of Year Inventories per Establishment (\$1,000)	1,541.6	2,333.9	2,932.3	871.2	1,515.3	485.1	707.4	982.0	1,246.4
221	Wood Product Manufacturing		·							
321	Employment to Establishments Ratio	85.9	102.4	79.5	62.3	76.1	48.9	41.0	42.7	64.2
	Average Payroll per Employee (\$1,000)	31.6	29.9	31.4	29.8	30.9	28.4	28.2	28.3	30.3
	Average Receipts per Employee (\$1,000) Average Receipts per Employee (\$1,000)	177.1	209.7	203.6	162.2	172.9	154.5	172.8	153.5	169.5
	Average End of Year Inventories per Establishment (\$1,000)	1,682.7	2,484.9	1,852.5	1,049.5	1,425.8	806.1	794.8	675.7	1,174.4
322	Paper Manufacturing									

 $* A sample of 2002 \ Economic \ Census \ Question \ 28 \ is \ available \ at \ http://help.econ.census.gov/2002 forms/mc31101.pdf$

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	Employment to Establishments Ratio	139.8	257.0	268.9	74.3		95.4	72.3	73.0	
	Average Payroll per Employee (\$1,000)	44.3	46.8	49.5	42.5	44.4	39.9	41.6	40.6	
	Average Receipts per Employee (\$1,000)	316.2	387.0	425.1	325.1	324.3	261.2	289.8	244.2	
	Average End of Year Inventories per Establishment (\$1,000)	4,163.1	10,030.9	10,840.3	1,878.7	3,990.8	2,026.3	1,649.2	1,882.7	3,486.4
323	Printing and Related Support Activities									
	Employment to Establishments Ratio	73.4	109.2	63.0	69.3	71.3	60.3	40.8	41.9	
	Average Payroll per Employee (\$1,000)	36.7	37.8	40.1	37.5		35.9	36.2	38.7	
	Average Receipts per Employee (\$1,000)	150.6	197.1	190.9	137.5	144.6	129.1	131.6	139.6	
	Average End of Year Inventories per Establishment (\$1,000)	884.8	1,793.8	819.3	479.6	667.8	453.5	344.2	346.7	548.0
324	Petroleum and Coal Products Manufacturing									
	Employment to Establishments Ratio	77.5	171.4	56.0	51.3	62.6	27.7	35.8	39.7	55.1
	Average Payroll per Employee (\$1,000)	59.9	63.4	54.5	64.8	62.0	45.7	55.4	55.0	
	Average Receipts per Employee (\$1,000)	2,085.4	2,107.6	581.4	2,781.1	2,382.6	712.4	1,561.1	1,136.4	
	Average End of Year Inventories per Establishment (\$1,000)	11,003.7	15,200.3	3,203.8	9,412.6	9,990.9	1,309.6	4,343.8	1,987.3	7,895.7
325	Chemical Manufacturing									
	Employment to Establishments Ratio	112.6	244.7	392.6	66.4	111.4	88.3	70.0	61.8	97.8
	Average Payroll per Employee (\$1,000)	52.3	56.0	59.5	53.5	53.0	52.5	49.8	51.6	
	Average Receipts per Employee (\$1,000)	541.5	785.6	596.1	622.8	570.2	800.9	444.5	450.9	
	Average End of Year Inventories per Establishment (\$1,000)	6,547.3	17,967.1	23,213.6	3,529.6	6,530.0	10,887.5	2,762.2	3,030.7	5,655.1
326	Plastics and Rubber Products Manufacturing									
	Employment to Establishments Ratio	113.8	207.3	149.9	77.0		73.6	66.9	67.6	
	Average Payroll per Employee (\$1,000)	33.6	37.8	35.6	33.8	33.8	31.1	29.8	31.9	
	Average Receipts per Employee (\$1,000)	184.8	229.9	199.9	168.0	183.9	157.7	140.4	167.5	
	Average End of Year Inventories per Establishment (\$1,000)	1,985.4	4,200.2	3,044.5	869.7	1,841.9	949.6	1,064.0	938.8	1,589.7
327	Nonmetallic Mineral Product Manufacturing									
	Employment to Establishments Ratio	65.1	146.9	148.6	28.4	49.4	39.0	31.6	38.0	
	Average Payroll per Employee (\$1,000)	38.1	40.3	41.7	37.6	37.9	35.0	35.4	37.6	
	Average Receipts per Employee (\$1,000) Average End of Year Inventories per Establishment (\$1,000)	209.5 1,556.7	267.2 4,089.2	287.3 4,249.1	196.7 430.8	206.7 1,071.8	161.9 643.2	186.7 526.8	187.6 646.6	
	Average End of Tea inventories per Establishment (\$1,000)	1,330.7	4,007.2	4,247.1	430.0	1,071.8	043.2	320.8	040.0	920.9
331	Primary Metal Manufacturing	150.0	217.1	2747	70.1	152.7	02.0	02.0	121.0	140.5
	Employment to Establishments Ratio	168.0	217.1	374.7	79.1	152.7	83.8	93.8	121.9	140.6
	Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000)	43.8 290.0	44.1 316.7	51.8 376.4	42.4 329.8	43.9 294.1	38.7 230.2	47.2 278.9	42.7 254.8	
-	Average End of Year Inventories per Establishment (\$1,000)	7,052.8	8,361.5	22,002.2	2,325.3	6,223.3	2,263.7	4,812.1	4,327.2	
	Average End of Tea inventories per Establishment (\$1,000)	7,032.0	6,301.3	22,002.2	2,323.3	0,223.3	2,203.7	4,012.1	4,327.2	3,004.4
332	Fabricated Metal Product Manufacturing	761	140.2	04.5	10.5	-5.4	40.0	12.0	40.0	50.0
	Employment to Establishments Ratio	76.1 37.0	148.2 40.5	84.7 39.5	42.6 37.7	65.4 37.2	48.8 37.8	43.0 35.5	48.8 37.1	59.9 37.1
	Average Payroll per Employee (\$1,000) Average Receipts per Employee (\$1,000)	174.0	251.4	295.5	142.8	169.5	37.8 144.6	35.5 148.9	153.9	
	Average End of Year Inventories per Establishment (\$1,000)	1,774.6	4,062.3	2,990.0	645.5	1,418.8	890.3	890.7	908.4	
333	Machinery Manufacturing Employment to Establishments Ratio	98.6	207.5	156.1	53.1	89.7	56.2	58.2	62.6	80.8
	Average Payroll per Employee (\$1,000)	42.5		43.3	47.0		45.0	42.4	42.7	
	Average Receipts per Employee (\$1,000)	220.1	283.8	349.5	207.3	222.6	223.0	173.4	238.9	
	Average End of Year Inventories per Establishment (\$1,000)	3,565.8	7,533.1	6,281.7	1,822.2	3,213.0	1,636.6	1,750.9	2,450.9	
334	Computer and Electronic Product Manufacturing									
334	Employment to Establishments Ratio	161.8	434.0	440.5	71.0	151.5	159.2	139.0	131.8	145.9
	Average Payroll per Employee (\$1,000)	50.3	54.1	62.6	51.4		54.3	52.4	53.0	
	Average Receipts per Employee (\$1,000) Average Receipts per Employee (\$1,000)	278.7	539.3	412.3	356.4		251.2	368.5	258.4	
	Average End of Year Inventories per Establishment (\$1,000)	5,273.4	16,370.4	13,424.0	2,972.6	5,036.9	14,204.5	4,828.6	4,797.3	
335	Electrical Equipment, Appliance, and Component Manufacturing									

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	Employment to Establishments Ratio	140.3	329.9	370.8	116.0	148.1	93.4	87.7	96.2	131.5
	Average Payroll per Employee (\$1,000)	36.6	38.5	37.9	37.3	36.7	33.5	35.3	37.1	36.6
	Average Receipts per Employee (\$1,000)	215.7	255.9	264.1	244.6	221.4	214.5	170.0	190.0	214.0
	Average End of Year Inventories per Establishment (\$1,000)	3,670.1	7,214.3	10,560.9	1,730.9	3,587.7	2,638.4	2,400.7	2,570.8	3,265.0
336	Transportation Equipment Manufacturing									
	Employment to Establishments Ratio	242.1	534.6	736.1	306.9	263.1	175.1	308.1	133.9	241.7
	Average Payroll per Employee (\$1,000)	46.3	50.0	58.8	53.8	48.7	51.5	52.8	47.7	49.3
	Average Receipts per Employee (\$1,000)	301.9	420.9	603.2	470.5	374.7	394.8	525.3	272.9	386.0
	Average End of Year Inventories per Establishment (\$1,000)	7,349.0	24,897.3	31,334.7	9,834.7	8,025.9	4,304.0	21,686.1	5,839.8	8,974.8
337	Furniture and Related Product Manufacturing									
	Employment to Establishments Ratio	111.4	196.3	130.7	43.0	91.9	43.5	46.6	62.9	76.7
	Average Payroll per Employee (\$1,000)	29.9	28.3	31.9	31.1	29.9	29.8	27.1	29.6	29.6
	Average Receipts per Employee (\$1,000)	134.9	172.0	139.9	106.3	133.2	115.3	127.6	139.1	133.2
	Average End of Year Inventories per Establishment (\$1,000)	1,561.6	3,165.9	3,058.5	414.6	1,252.7	470.0	612.6	928.3	1,050.9
339	Miscellaneous Manufacturing									
	Employment to Establishments Ratio	87.4	231.7	123.6	43.7	81.1	48.8	41.9	56.5	
	Average Payroll per Employee (\$1,000)	38.5	39.3	42.7	36.2	38.1	34.1	38.3	36.1	37.7
	Average Receipts per Employee (\$1,000)	180.9	257.4	295.0	150.0	184.4	169.2	162.6	169.2	179.8
	Average End of Year Inventories per Establishment (\$1,000)	2,386.7	7,495.4	4,386.1	645.8	2,130.9	832.6	908.7	1,370.8	1,768.4