

*Detailed Data Tables*

<u>Table Number</u>	<u>Title</u>
Table 1A.	Computer Network Use in 2000 by Number of Responding Manufacturing Plants by Subsector
Table 1B.	Computer Network Use in 2000 by Employment for Responding Manufacturing Plants by Subsector
Table 1C.	Computer Network Use in 2000 by Number of Responding Manufacturing Plants by Size Class
Table 2A.	Internet Access and Degree of Access in 2000 by Number of Responding Manufacturing Plants by Subsector
Table 2B.	Internet Access and Degree of Access in 2000 by Employment for Responding Manufacturing Plants by Subsector
Table 2C.	Internet Access and Degree of Access in 2000 by Number of Responding Manufacturing Plants by Size Class
Table 3A.	Fully Integrated Enterprise Resource Planning (FIERP) Software Use in 2000 by Number of Responding Manufacturing Plants by Subsector
Table 3B.	Fully Integrated Enterprise Resource Planning (FIERP) Software Use in 2000 by Employment for Responding Manufacturing Plants by Subsector
Table 3C.	Fully Integrated Enterprise Resource Planning (FIERP) Software Use in 2000 by Number of Responding Manufacturing Plants by Size Class
Table 4A.	Most Frequently Used Network in 2000 to Place Online Orders for Materials and Supplies by Number of Responding Manufacturing Plants by Subsector
Table 4B.	Most Frequently Used Network in 2000 to Place Online Orders for Materials and Supplies by Employment for Responding Manufacturing Plants by Subsector
Table 4C.	Most Frequently Used Network in 2000 to Place Online Orders for Materials and Supplies by Number of Responding Manufacturing Plants by Size Class
Table 5A.	Most Frequently Used Network in 2000 to Accept Orders Online for Manufactured Products by Number of Responding Manufacturing Plants by Subsector
Table 5B.	Most Frequently Used Network in 2000 to Accept Orders Online for Manufactured Products by Employment for Responding Manufacturing Plants by Subsector

Detailed Data Tables (continued)

- Table 5C. Most Frequently Used Network in 2000 to Accept Orders Online for Manufactured Products by Number of Responding Manufacturing Plants by Size Class
- Table 6A. Manufacturing Plants that Provide Design Specifications Online in 2000 by Number of Responding Manufacturing Plants by Subsector
- Table 6B. Manufacturing Plants that Provide Design Specifications Online in 2000 by Employment for Responding Manufacturing Plants by Subsector
- Table 6C. Manufacturing Plants that Provide Design Specifications Online in 2000 by Number of Responding Manufacturing Plants by Size Class
- Table 7A. Manufacturing Plants that Provide Product Descriptions or Catalogs Online in by Number of Responding Manufacturing Plants by Subsector
- Table 7B. Manufacturing Plants that Provide Product Descriptions or Catalogs Online in 2000 by Employment for Responding Manufacturing Plants by Subsector
- Table 7C. Manufacturing Plants that Provide Product Descriptions or Catalogs Online in 2000 by Number of Responding Manufacturing Plants by Size Class
- Table 8A. Manufacturing Plants that Provide Demand Projections Online in 2000 by Number of Responding Manufacturing Plants by Subsector
- Table 8B. Manufacturing Plants that Provide Demand Projections Online in 2000 by Employment for Responding Manufacturing Plants by Subsector
- Table 8C. Manufacturing Plants that Provide Demand Projections Online in 2000 by Number of Responding Manufacturing Plants by Size Class
- Table 9A. Manufacturing Plants that Provide Order Status Online in 2000 by Number of Responding Manufacturing Plants by Subsector
- Table 9B. Manufacturing Plants that Provide Order Status Online in 2000 by Employment for Responding Manufacturing Plants by Subsector
- Table 9C. Manufacturing Plants that Provide Order Status Online in 2000 by Number of Responding Manufacturing Plants by Size Class
- Table 10A. Manufacturing Plants that Provide Production Schedules Online in 2000 by Number of Responding Manufacturing Plants by Subsector
- Table 10B. Manufacturing Plants that Provide Production Schedules Online in 2000 by Employment for Responding Manufacturing Plants by Subsector
- Table 10C. Manufacturing Plants that Provide Production Schedules Online in 2000 by Number of Responding Manufacturing Plants by Size Class
- Table 11A. Manufacturing Plants that Provide Inventory Data Online in 2000 by Number of Responding Manufacturing Plants by Subsector
- Table 11B. Manufacturing Plants that Provide Inventory Data Online in 2000 by Employment for Responding Manufacturing Plants by Subsector

Detailed Data Tables (continued)

- Table 11C. Manufacturing Plants that Provide Inventory Data Online in 2000 by Number of Responding Manufacturing Plants by Size Class
- Table 12A. Manufacturing Plants that Provide Logistics or Transportation Information Online in 2000 by Number of Responding Manufacturing Plants by Subsector
- Table 12B. Manufacturing Plants that Provide Logistics or Transportation Information Online in 2000 by Employment for Responding Manufacturing Plants by Subsector
- Table 12C. Manufacturing Plants that Provide Logistics or Transportation Information Online in 2000 by Number of Responding Manufacturing Plants by Size Class
- Table 13A. Use of Online Access to Vendors' Products or Catalogs in 2000 by Number of Responding Manufacturing Plants by Subsector
- Table 13B. Use of Online Access to Vendors' Products or Catalogs in 2000 by Employment for Responding Manufacturing Plants by Subsector
- Table 13C. Use of Online Access to Vendors' Products or Catalogs in 2000 by Number of Responding Manufacturing Plants by Size Class
- Table 14A. Use of Online Ordering from Vendors in 2000 by Number of Responding Manufacturing Plants by Subsector
- Table 14B. Use of Online Ordering from Vendors in 2000 by Employment for Responding Manufacturing Plants by Subsector
- Table 14C. Use of Online Ordering from Vendors in 2000 by Number of Responding Manufacturing Plants by Size Class
- Table 15A. Use of Online Payment to Vendors in 2000 by Number of Responding Manufacturing Plants by Subsector
- Table 15B. Use of Online Payment to Vendors in 2000 by Employment for Responding Manufacturing Plants by Subsector
- Table 15C. Use of Online Payment to Vendors in 2000 by Number of Responding Manufacturing Plants by Size Class
- Table 16A. Plants Using Vendor Inventory Management Online in 2000 by Number of Responding Manufacturing Plants by Subsector
- Table 16B. Plants Using Vendor Inventory Management Online in 2000 by Employment for Responding Manufacturing Plants by Subsector
- Table 16C. Plants Using Vendor Inventory Management Online in 2000 by Number of Responding Manufacturing Plants by Size Class
- Table 17A. Use of Online Bidding in 2000 by Number of Responding Manufacturing Plants by Subsector
- Table 17B. Use of Online Bidding in 2000 by Employment for Responding Manufacturing Plants by Subsector

Detailed Data Tables (continued)

- Table 17C. Use of Online Bidding in 2000 by Number of Responding Manufacturing Plants by Size Class
- Table 18A. Use of Electronic Marketplaces Linking Specialized Business Buyers and Sellers in 2000 by Number of Responding Manufacturing Plants by Subsector
- Table 18B. Use of Electronic Marketplaces Linking Specialized Business Buyers and Sellers in 2000 by Employment for Responding Manufacturing Plants by Subsector
- Table 18C. Use of Electronic Marketplaces Linking Specialized Business Buyers and Sellers in 2000 by Number of Responding Manufacturing Plants by Size Class
- Table 19A. Use of Online Access to Plants' Products or Catalogs in 2000 by Number of Responding Manufacturing Plants by Subsector
- Table 19B. Use of Online Access to Plants' Products or Catalogs in 2000 by Employment for Responding Manufacturing Plants by Subsector
- Table 19C. Use of Online Access to Plants' Products or Catalogs in 2000 by Number of Responding Manufacturing Plants by Size Class
- Table 20A. Use of Online Ordering by Customers in 2000 by Number of Responding Manufacturing Plants by Subsector
- Table 20B. Use of Online Ordering by Customers in 2000 by Employment for Responding Manufacturing Plants by Subsector
- Table 20C. Use of Online Ordering by Customers in 2000 by Number of Responding Manufacturing Plants by Size Class
- Table 21A. Use of Online Payment by Customers in 2000 by Number of Responding Manufacturing Plants by Subsector
- Table 21B. Use of Online Payment by Customers in 2000 by Employment for Responding Manufacturing Plants by Subsector
- Table 21C. Use of Online Payment by Customers in 2000 by Number of Responding Manufacturing Plants by Size Class
- Table 22A. Use of Online Management of Customers' Inventory in 2000 by Number of Responding Manufacturing Plants by Subsector
- Table 22B. Use of Online Management of Customers' Inventory in 2000 by Employment for Responding Manufacturing Plants by Subsector
- Table 22C. Use of Online Management of Customers' Inventory in 2000 by Number of Responding Manufacturing Plants by Size Class
- Table 23A. Use of Online Customer Support in 2000 by Number of Responding Manufacturing Plants by Subsector
- Table 23B. Use of Online Customer Support in 2000 by Employment for Responding Manufacturing Plants by Subsector

Detailed Data Tables (continued)

- Table 23C. Use of Online Customer Support by Number of Responding Manufacturing Plants by Size Class
- Table 24A. Use of Integrated CAD/CAE (Computer Aided Design/Computer Aided Engineering) in 2000 by Number of Responding Manufacturing Plants by Subsector
- Table 24B. Use of Integrated CAD/CAE (Computer Aided Design/Computer Aided Engineering) in 2000 by Employment for Responding Manufacturing Plants by Subsector
- Table 24C. Use of Integrated CAD/CAE (Computer Aided Design/Computer Aided Engineering) in 2000 by Number of Responding Manufacturing Plants by Size Class
- Table 25A. Use of Computer Networks in the Design of the Production Process in 2000 by Number of Responding Manufacturing Plants by Subsector
- Table 25B. Use of Computer Networks in the Design of the Production Process in 2000 by Employment for Responding Manufacturing Plants by Subsector
- Table 25C. Use of Computer Networks in the Design of the Production Process in 2000 by Number of Responding Manufacturing Plants
- Table 26A. Use of Computer Networks in Production Scheduling in 2000 by Number of Responding Manufacturing Plants by Subsector
- Table 26B. Use of Computer Networks in Production Scheduling in 2000 by Employment for Responding Manufacturing Plants by Subsector
- Table 26C. Use of Computer Networks in Production Scheduling in 2000 by Number of Responding Manufacturing Plants by Size Class
- Table 27A. Use of Computer Networks in Production Monitoring in 2000 by Number of Responding Manufacturing Plants by Subsector
- Table 27B. Use of Computer Networks in Production Monitoring in 2000 by Employment for Responding Manufacturing Plants by Subsector
- Table 27C. Use of Computer Networks in Production Monitoring in 2000 by Number of Responding Manufacturing Plants by Size Class
- Table 28A. Use of Computer Networks in the Test and Acceptance of Product in 2000 by Number of Responding Manufacturing Plants by Subsector
- Table 28B. Use of Computer Networks in the Test and Acceptance of Product in 2000 by Employment for Responding Manufacturing Plants by Subsector
- Table 28C. Use of Computer Networks in the Test and Acceptance of Product in 2000 by Number of Responding Manufacturing Plants by Size Class
- Table 29A. Use of Computer Networks in the Outsourcing of Research and Development in 2000 by Number of Responding Manufacturing Plants by Subsector
- Table 29B. Use of Computer Networks in the Outsourcing of Research and Development in 2000 by Employment for Responding Manufacturing Plants by Subsector

Detailed Data Tables (continued)

- Table 29C. Use of Computer Networks in the Outsourcing of Research and Development in 2000 by Number of Responding Manufacturing Plants by Size Class
- Table 30A. Use of Computer Networks for Order Fulfillment in 2000 by Number of Responding Manufacturing Plants by Subsector
- Table 30B. Use of Computer Networks for Order Fulfillment in 2000 by Employment for Responding Manufacturing Plants by Subsector
- Table 30C. Use of Computer Networks for Order Fulfillment in 2000 by Number of Responding Manufacturing Plants by Size Class
- Table 31A. Use of Computer Networks for Order Tracking in 2000 by Number of Responding Manufacturing Plants by Subsector
- Table 31B. Use of Computer Networks for Order Tracking in 2000 by Employment for Responding Manufacturing Plants by Subsector
- Table 31C. Use of Computer Networks for Order Tracking in 2000 by Number of Responding Manufacturing Plants by Size Class
- Table 32A. Use of Computer Networks for Transportation and Shipping Logistics in 2000 by Number of Responding Manufacturing Plants by Subsector
- Table 32B. Use of Computer Networks for Transportation and Shipping Logistics in 2000 by Employment for Responding Manufacturing Plants by Subsector
- Table 32C. Use of Computer Networks for Transportation and Shipping Logistics in 2000 by Number of Responding Manufacturing Plants by Size Class
- Table 33A. Use of Automated Warehouses in 2000 by Number of Responding Manufacturing Plants by Subsector
- Table 33B. Use of Automated Warehouses in 2000 by Employment for Responding Manufacturing Plants by Subsector
- Table 33C. Use of Automated Warehouses in 2000 by Number of Responding Manufacturing Plants by Size Class
- Table 34A. Use of E-mail within the Plant by Number of Responding Manufacturing Plants by Subsector
- Table 34B. Use of E-mail within the Plant in 2000 by Employment for Responding Manufacturing Plants by Subsector
- Table 34C. Use of E-mail within the Plant in 2000 by Number of Responding Manufacturing Plants by Size Class
- Table 35A. Use of E-mail with Vendors or Customers by Number of Responding Manufacturing Plants by Subsector
- Table 35B. Use of E-mail with Vendors or Customers in 2000 by Employment for Responding Manufacturing Plants by Subsector

Detailed Data Tables (continued)

- Table 35C. Use of E-mail with Vendors or Customers in 2000 by Number of Responding Manufacturing Plants by Size Class
- Table 36A. Use of Online Employee Training by Number of Responding Manufacturing Plants by Subsector
- Table 36B. Use of Online Employee Training in 2000 by Employment for Responding Manufacturing Plants by Subsector
- Table 36C. Use of Online Employee Training in 2000 by Number of Responding Manufacturing Plants by Size Class
- Table 37A. Use of Online Employee Recruiting in 2000 by Number of Responding Manufacturing Plants by Subsector
- Table 37B. Use of Online Employee Recruiting in 2000 by Employment for Responding Manufacturing Plants by Subsector
- Table 37C. Use of Online Employee Recruiting in 2000 by Number of Responding Manufacturing Plants by Size Class
- Table 38A. Use of Online Employee Management of Own Benefits in 2000 by Number of Responding Manufacturing Plants by Subsector
- Table 38B. Use of Online Employee Management of Own Benefits in 2000 by Employment for Responding Manufacturing Plants by Subsector
- Table 38C. Use of Online Employee Management of Own Benefits in 2000 by Number of Responding Manufacturing Plants by Size Class
- Table 39A. Use of Online Requests for Maintenance or Repairs in 2000 by Number of Responding Manufacturing Plants by Subsector
- Table 39B. Use of Online Requests for Maintenance or Repairs in 2000 by Employment for Responding Manufacturing Plants by Subsector
- Table 39C. Use of Online Requests for Maintenance or Repairs in 2000 by Number of Responding Manufacturing Plants by Size Class

**Table 1A. Computer Network Use in 2000
by Number of Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Types of Computer Networks						None	Don't Know	Total Item Nonrespondents
			Internet	Intranet	Local Area Network	EDI Network	Extranet	Other			
	Plant Count Totals	38,593	28,777	15,609	26,515	8,729	2,345	1,678	476	4,146	392
311	Food Products	3,390	2,384	1,537	2,263	674	129	150	70	410	40
312	Beverage and tobacco	406	300	207	287	75	25	17	(D)	37	4
313	Textile mills	762	560	300	530	231	50	32	9	75	4
314	Textile product mills	484	328	132	264	128	14	25	9	78	8
315	Apparel	892	540	186	449	288	32	38	17	201	13
316	Leather and allied products	178	113	42	110	37	7	4	(D)	30	1
321	Wood products	2,111	1,256	604	1,123	194	53	79	32	472	31
322	Paper	1,616	1,292	902	1,268	518	77	85	14	83	11
323	Printing and related support activities	2,108	1,684	736	1,434	319	133	97	24	188	21
324	Petroleum and coal products	568	336	243	309	87	21	24	11	133	9
325	Chemicals	2,619	2,093	1,605	2,064	553	171	115	24	133	20
326	Plastics and rubber products	2,697	2,057	1,117	1,935	772	143	130	25	219	22
327	Nonmetallic mineral products	2,074	1,246	655	1,113	208	68	110	47	449	25
331	Primary metals	1,257	1,017	559	970	412	92	63	16	78	9
332	Fabricated metal products	5,710	4,163	1,669	3,672	1,306	246	212	68	666	52
333	Machinery	3,784	3,094	1,518	2,855	722	315	153	35	207	43
334	Computer and electronic products	1,910	1,692	1,125	1,649	524	279	79	14	47	14
335	Electrical equipment, appliances, and components	1,106	941	617	901	336	124	47	9	44	7
336	Transportation equipment	1,759	1,494	1,004	1,438	746	212	100	9	76	19
337	Furniture and related products	1,329	856	316	751	230	70	43	14	259	22
339	Miscellaneous	1,833	1,331	535	1,130	369	84	75	26	261	17

Respondent may be counted in more than one column.

(D) Withheld to avoid disclosing data of individual companies; data are included in higher level totals.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 1B. Computer Network Use in 2000
by Employment for Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Types of Computer Networks						None	Don't Know	Total Item Nonrespondents
			Internet	Intranet	Local Area Network	EDI Network	Extranet	Other			
	Associated Employment Totals¹	7,983,661	6,939,339	5,210,807	6,889,803	3,241,797	1,288,116	444,423	49,700	227,893	50,223
311	Food Products	801,030	642,717	472,928	636,637	220,482	43,552	47,830	11,377	35,375	5,298
312	Beverage and tobacco	89,874	73,901	60,604	78,851	30,191	13,862	5,833	(D)	3,137	542
313	Textile mills	202,553	165,966	99,999	160,950	86,771	13,732	12,669	1,889	9,817	1,079
314	Textile product mills	90,366	74,632	42,058	67,523	38,623	7,598	5,494	1,106	3,802	1,063
315	Apparel	169,543	128,196	60,290	120,349	75,302	8,378	7,797	1,372	13,766	1,099
316	Leather and allied products	34,057	26,098	13,789	26,563	13,292	3,316	698	(D)	2,060	137
321	Wood products	270,216	188,463	118,911	193,369	41,980	13,447	15,978	2,423	28,127	2,906
322	Paper	328,985	287,655	228,629	294,130	130,061	26,480	20,485	977	6,387	2,215
323	Printing and related support activities	258,723	231,299	158,693	224,289	72,675	31,266	12,285	3,161	5,802	862
324	Petroleum and coal products	66,180	58,853	52,947	58,378	24,238	7,045	3,356	182	3,290	91
325	Chemicals	482,238	445,743	394,972	446,885	198,820	96,189	19,720	2,014	4,406	2,106
326	Plastics and rubber products	502,856	432,674	292,755	422,562	201,142	44,008	23,354	1,927	11,333	2,921
327	Nonmetallic mineral products	238,246	187,864	128,830	185,360	51,839	16,823	14,696	2,570	16,237	1,599
331	Primary metals	368,744	334,490	252,458	334,776	204,415	66,263	25,171	2,824	5,922	1,612
332	Fabricated metal products	699,930	583,876	342,750	571,801	256,840	62,783	33,791	5,456	26,251	2,816
333	Machinery	707,450	639,507	471,455	635,945	264,276	159,381	31,392	4,280	9,090	5,208
334	Computer and electronic products	678,983	645,810	563,262	635,619	338,642	232,642	29,089	2,499	3,750	3,645
335	Electrical equipment, appliances, and components	335,736	312,714	248,534	307,364	163,167	68,156	16,724	1,781	5,983	1,780
336	Transportation equipment	1,082,741	996,343	899,201	1,011,593	629,359	290,668	87,909	1,019	7,574	8,563
337	Furniture and related products	274,202	219,464	133,472	216,210	94,876	52,348	11,975	1,304	16,905	1,903
339	Miscellaneous	301,008	263,074	174,270	260,649	104,806	30,179	18,177	1,163	8,879	2,778

Respondent may be counted in more than one column.

(D) Withheld to avoid disclosing data of individual companies; data are included in higher level totals.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 1C. Computer Network Use in 2000
by Number of Responding Manufacturing Plants by Size Class**

Employment Size Class ¹	Total Item Respondents	Types of Computer Networks						None	Don't Know	Total Item Nonrespondents
		Internet	Intranet	Local Area Network	EDI Network	Extranet	Other			
Plant Count Totals	38,593	28,777	15,609	26,515	8,729	2,345	1,678	476	4,146	392
Plants with-										
1-4 employees	551	218	110	125	40	9	25	18	242	14
5-9 employees	1,215	574	154	297	51	21	29	26	500	28
10-19 employees	2,972	1,661	436	1,073	171	42	99	59	857	46
20-49 employees	7,115	4,642	1,585	3,727	752	164	266	141	1,217	87
50-99 employees	7,358	5,398	2,416	5,034	1,259	258	282	100	699	80
100-249 employees	10,360	8,369	5,004	8,316	2,817	635	457	85	413	75
250-499 employees	5,055	4,394	3,097	4,415	1,886	512	276	22	98	34
500-999 employees	2,441	2,203	1,734	2,223	1,110	365	140	18	33	14
1,000-2,499 employees	861	807	725	802	434	222	63	(D)	6	4
2,500 employees or more	196	189	188	189	132	86	14	0	0	1
Employment unknown	469	322	160	314	77	31	27	(D)	81	9

Respondent may be counted in more than one column.

(D) Withheld to avoid disclosing data of individual companies; data are included in higher level totals.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 2A. Internet Access and Degree of Access in 2000
by Number of Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Total with Access	Percent of Employees at Plant with Internet Access				No Access	Total Item Nonrespondents
				1 to 25	26 to 50	51 to 75	Over 75		
Plant Count Totals		38,363	32,810	22,760	5,156	1,431	3,463	5,553	622
311	Food Products	3,368	2,759	2,287	276	55	141	609	62
312	Beverage and tobacco	396	347	252	45	24	26	49	14
313	Textile mills	753	627	538	59	14	16	126	13
314	Textile product mills	484	381	316	39	9	17	103	8
315	Apparel	887	637	515	61	31	30	250	18
316	Leather and allied products	177	145	113	16	7	9	32	2
321	Wood products	2,103	1,530	1,408	76	13	33	573	39
322	Paper	1,601	1,468	1,163	187	33	85	133	26
323	Printing and related support activities	2,097	1,861	1,015	450	107	289	236	32
324	Petroleum and coal products	570	404	209	87	18	90	166	7
325	Chemicals	2,598	2,364	1,120	465	157	622	234	41
326	Plastics and rubber products	2,687	2,351	1,893	270	56	132	336	32
327	Nonmetallic mineral products	2,068	1,476	1,172	191	38	75	592	31
331	Primary metals	1,252	1,146	898	153	30	65	106	14
332	Fabricated metal products	5,672	4,842	3,752	680	155	255	830	90
333	Machinery	3,768	3,477	1,969	813	262	433	291	59
334	Computer and electronic products	1,896	1,822	592	397	194	639	74	28
335	Electrical equipment, appliances, and components	1,099	1,033	601	211	66	155	66	14
336	Transportation equipment	1,748	1,626	1,157	263	53	153	122	30
337	Furniture and related products	1,320	999	842	100	21	36	321	31
339	Miscellaneous	1,819	1,515	948	317	88	162	304	31

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 2B. Internet Access and Degree of Access in 2000
by Employment for Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Total with Access	Percent of Employees at Plant with Internet Access				No Access	Total Item Nonrespondents
				1 to 25	26 to 50	51 to 75	Over 75		
	Associated Employment Totals¹	7,892,897	7,473,936	4,870,752	1,176,986	385,835	1,040,363	418,961	140,987
311	Food Products	792,797	719,663	617,386	60,874	11,677	29,726	73,134	13,531
312	Beverage and tobacco	84,671	80,147	60,300	9,247	3,540	7,060	4,524	5,745
313	Textile mills	201,290	181,333	158,679	14,291	3,742	4,621	19,957	2,342
314	Textile product mills	88,989	81,629	72,546	6,968	737	1,378	7,360	2,440
315	Apparel	168,685	145,922	122,487	14,046	4,642	4,747	22,763	1,957
316	Leather and allied products	33,960	31,767	24,825	3,031	2,144	1,767	2,193	234
321	Wood products	269,337	230,017	213,983	7,779	4,742	3,513	39,320	3,785
322	Paper	322,930	311,283	231,781	50,754	6,978	21,770	11,647	8,270
323	Printing and related support activities	256,145	244,819	140,749	56,686	15,250	32,134	11,326	3,440
324	Petroleum and coal products	66,198	61,954	28,367	13,285	2,056	18,246	4,244	73
325	Chemicals	473,497	462,208	164,674	108,082	39,154	150,298	11,289	10,847
326	Plastics and rubber products	501,352	475,508	387,072	54,320	7,429	26,687	25,844	4,425
327	Nonmetallic mineral products	236,267	209,041	162,315	27,704	6,829	12,193	27,226	3,578
331	Primary metals	368,588	359,983	274,577	55,645	8,809	20,952	8,605	1,768
332	Fabricated metal products	693,246	655,546	486,187	103,022	26,712	39,625	37,700	9,500
333	Machinery	699,313	680,425	361,001	155,606	67,627	96,191	18,888	13,345
334	Computer and electronic products	673,782	663,037	156,274	135,428	71,391	299,944	10,745	8,846
335	Electrical equipment, appliances, and components	331,987	324,123	198,811	55,228	19,028	51,056	7,864	5,529
336	Transportation equipment	1,059,993	1,025,180	653,009	159,028	52,780	160,363	34,813	31,311
337	Furniture and related products	271,455	243,967	195,613	18,814	8,164	21,376	27,488	4,650
339	Miscellaneous	298,415	286,384	160,116	67,148	22,404	36,716	12,031	5,371

Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 2C. Internet Access and Degree of Access in 2000
by Number of Responding Manufacturing Plants by Size Class**

[Data are based on the North American Industry Classification System (NAICS).]

Employment Size Class ¹	Total Item Respondents	Total with Access	Percent of Employees at Plant with Internet Access				No Access	Total Item Nonrespondents
			1 to 25	26 to 50	51 to 75	Over 75		
Plant Count Totals	38,363	32,810	22,760	5,156	1,431	3,463	5,553	622
Plants with-								
1-4 employees	553	267	120	40	11	96	286	12
5-9 employees	1,210	650	323	154	27	146	560	33
10-19 employees	2,967	1,955	1,222	376	96	261	1,012	51
20-49 employees	7,083	5,507	3,933	862	202	510	1,576	119
50-99 employees	7,311	6,335	4,659	903	244	529	976	127
100-249 employees	10,291	9,577	6,905	1,451	410	811	714	144
250-499 employees	5,019	4,805	3,288	758	231	528	214	70
500-999 employees	2,420	2,327	1,512	390	124	301	93	35
1,000-2,499 employees	853	837	501	147	47	142	16	12
2,500 employees or more	188	184	95	23	14	52	4	9
Employment unknown	468	366	202	52	25	87	102	10

¹Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 3A. Fully Integrated Enterprise Resource Planning (FIERP) Software Use in 2000
by Number of Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	FIERP Use			Total Item Nonrespondents
			Use	Don't Use	Don't Know	
	Plant Count Totals	38,315	9,775	25,333	3,207	670
311	Food Products	3,367	652	2,261	454	63
312	Beverage and tobacco	403	96	258	49	7
313	Textile mills	754	141	545	68	12
314	Textile product mills	481	89	349	43	11
315	Apparel	888	114	679	95	17
316	Leather and allied products	177	38	123	16	2
321	Wood products	2,100	190	1,724	186	42
322	Paper	1,596	330	1,075	191	31
323	Printing and related support activities	2,090	269	1,579	242	39
324	Petroleum and coal products	559	116	383	60	18
325	Chemicals	2,591	857	1,474	260	48
326	Plastics and rubber products	2,679	785	1,668	226	40
327	Nonmetallic mineral products	2,060	278	1,578	204	39
331	Primary metals	1,250	345	833	72	16
332	Fabricated metal products	5,681	1,435	3,869	377	81
333	Machinery	3,763	1,318	2,239	206	64
334	Computer and electronic products	1,891	869	926	96	33
335	Electrical equipment, appliances, and components	1,094	454	579	61	19
336	Transportation equipment	1,750	710	934	106	28
337	Furniture and related products	1,317	243	1,002	72	34
339	Miscellaneous	1,824	446	1,255	123	26

Respondent may be counted in more than one column.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2000

[Back](#)

**Table 3B. Fully Integrated Enterprise Resource Planning (FIERP) Software Use in 2000
by Employment for Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	FIERP Use			Total Item Nonrespondents
			Use	Don't Use	Don't Know	
	Associated Employment Totals¹	7,924,781	3,062,783	4,336,682	525,316	109,103
311	Food Products	795,176	213,943	476,785	104,448	11,152
312	Beverage and tobacco	89,103	31,946	50,267	6,890	1,313
313	Textile mills	201,365	53,351	130,016	17,998	2,267
314	Textile product mills	89,037	26,043	56,258	6,736	2,392
315	Apparel	169,108	32,650	113,199	23,259	1,534
316	Leather and allied products	33,793	10,895	19,224	3,674	401
321	Wood products	267,957	43,981	198,635	25,341	5,165
322	Paper	326,145	94,809	208,242	23,094	5,055
323	Printing and related support activities	255,057	55,839	173,028	26,190	4,528
324	Petroleum and coal products	64,970	29,429	31,705	3,836	1,301
325	Chemicals	474,963	205,804	227,301	41,858	9,381
326	Plastics and rubber products	498,981	193,607	269,020	36,354	6,796
327	Nonmetallic mineral products	236,328	56,569	155,451	24,308	3,517
331	Primary metals	368,527	122,264	230,129	16,134	1,829
332	Fabricated metal products	692,480	282,588	375,483	34,409	10,266
333	Machinery	702,658	366,144	311,912	24,602	10,000
334	Computer and electronic products	674,339	378,212	276,095	20,032	8,289
335	Electrical equipment, appliances, and components	332,389	162,587	157,450	12,352	5,127
336	Transportation equipment	1,080,565	468,395	564,284	47,886	10,739
337	Furniture and related products	271,704	91,989	168,684	11,031	4,401
339	Miscellaneous	300,136	141,738	143,514	14,884	3,650

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

Table 3C. Fully Integrated Enterprise Resource Planning (FIERP) Software Use in 2000 by Number of Responding Manufacturing Plants by Size Class

Employment Size Class ¹	Total Item Respondents	FIERP Use			Total Item Nonrespondents
		Use	Don't Use	Don't Know	
Plant Count Totals	38,315	9,775	25,333	3,207	670
Plants with-					
1-4 employees	548	25	467	56	17
5-9 employees	1,212	40	1,062	110	31
10-19 employees	2,968	214	2,431	323	50
20-49 employees	7,060	846	5,484	730	142
50-99 employees	7,301	1,622	5,052	627	137
100-249 employees	10,276	3,292	6,154	830	159
250-499 employees	5,016	2,070	2,639	307	73
500-999 employees	2,424	1,086	1,199	139	31
1,000-2,499 employees	851	388	418	45	14
2,500 employees or more	196	83	104	9	1
Employment unknown	463	109	323	31	15

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

Table 4A. Most Frequently Used Network in 2000 to Place Online Orders for Materials and Supplies by Number of Responding Manufacturing Plants by Subsector

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Survey Respondents Who Do Not Place Online Orders	Total Item Respondents	Most Frequently Used Network						Total Item Nonrespondents
				Internet	Intranet	EDI Network	Extranet	Other	Don't Know	
Plant Count Totals		23,800	14,644	10,141	938	1,963	146	576	880	541
311	Food Products	2,215	1,159	714	135	142	11	58	99	56
312	Beverage and tobacco	247	158	102	11	25	(D)	(D)	8	5
313	Textile mills	534	217	114	12	63	0	11	17	15
314	Textile product mills	355	131	74	(D)	24	(D)	11	12	6
315	Apparel	663	222	137	11	31	0	9	34	20
316	Leather and allied products	126	48	35	(D)	(D)	(D)	(D)	4	5
321	Wood products	1,546	559	380	58	41	8	30	42	37
322	Paper	995	615	394	58	96	6	18	43	17
323	Printing and related support activities	1,098	1,011	826	55	41	10	35	44	20
324	Petroleum and coal products	373	193	117	21	(D)	(D)	11	16	11
325	Chemicals	1,439	1,170	714	147	175	15	52	67	30
326	Plastics and rubber products	1,662	1,032	714	57	153	10	43	55	25
327	Nonmetallic mineral products	1,504	569	391	54	47	(D)	(D)	46	26
331	Primary metals	753	496	374	25	60	(D)	(D)	26	17
332	Fabricated metal products	3,688	2,006	1,533	53	199	12	86	123	68
333	Machinery	2,154	1,616	1,219	49	202	17	56	73	57
334	Computer and electronic products	893	999	732	40	157	14	17	39	32
335	Electrical equipment, appliances, and components	565	533	322	50	105	(D)	(D)	31	15
336	Transportation equipment	880	869	442	62	279	16	31	39	29
337	Furniture and related products	958	364	263	12	41	5	16	27	29
339	Miscellaneous	1,152	677	544	17	52	8	21	35	21

Respondent may be counted in more than one column.

(D) Withheld to avoid disclosing data of individual companies; data are included in higher level totals.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

Table 4B. Most Frequently Used Network in 2000 to Place Online Orders for Materials and Supplies by Employment for Responding Manufacturing Plants by Subsector

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Survey Respondents Who Do Not Place Online Orders	Total Item Respondents	Most Frequently Used Network						Total Item Nonrespondents
				Internet	Intranet	EDI Network	Extranet	Other	Don't Know	
Associated Employment Totals¹		3,818,038	4,100,920	2,165,095	294,262	1,183,269	69,750	154,231	234,313	114,926
311	Food Products	451,799	340,500	200,367	31,904	52,772	2,934	23,035	29,488	14,029
312	Beverage and tobacco	45,019	45,155	20,994	2,790	12,030	(D)	(D)	1,061	242
313	Textile mills	136,090	63,701	25,209	3,649	25,316	0	3,925	5,602	3,841
314	Textile product mills	58,759	31,629	12,833	(D)	10,934	(D)	2,378	1,988	1,041
315	Apparel	103,233	65,246	35,221	7,172	11,421	0	2,818	8,614	2,163
316	Leather and allied products	20,050	12,847	9,616	(D)	(D)	(D)	(D)	593	1,297
321	Wood products	173,996	94,397	55,592	10,113	14,351	2,362	6,481	5,498	4,729
322	Paper	189,528	138,171	79,974	8,854	31,758	1,691	2,991	12,903	3,501
323	Printing and related support activities	111,992	145,620	116,810	9,634	8,237	1,418	5,094	4,427	1,973
324	Petroleum and coal products	24,980	39,040	18,919	4,204	(D)	(D)	2,191	2,250	2,251
325	Chemicals	192,320	286,612	137,155	32,772	76,469	6,613	8,872	24,731	5,412
326	Plastics and rubber products	277,053	225,173	140,875	16,848	46,788	2,424	9,124	9,114	3,551
327	Nonmetallic mineral products	142,753	95,619	63,038	10,043	16,142	(D)	(D)	3,537	1,473
331	Primary metals	182,902	185,061	112,988	9,608	47,936	(D)	(D)	10,168	2,393
332	Fabricated metal products	376,319	317,084	221,550	7,419	58,876	2,090	12,664	14,485	9,343
333	Machinery	310,931	391,682	228,619	12,895	116,775	8,703	8,210	16,480	10,045
334	Computer and electronic products	237,988	431,955	227,898	21,707	148,475	13,471	6,211	14,193	12,685
335	Electrical equipment, appliances, and components	137,351	195,168	88,266	20,012	63,626	(D)	(D)	14,352	4,997
336	Transportation equipment	321,481	752,023	203,460	75,991	393,391	15,255	31,122	32,804	17,800
337	Furniture and related products	167,639	100,084	59,121	2,955	14,747	4,036	5,712	13,513	8,382
339	Miscellaneous	155,855	144,153	106,590	3,140	20,108	2,051	3,752	8,512	3,778

Respondent may be counted in more than one column.

(D) Withheld to avoid disclosing data of individual companies; data are included in higher level totals.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

Table 4C. Most Frequently Used Network in 2000 to Place Online Orders for Materials and Supplies by Number of Responding Manufacturing Plants by Size Class

Employment Size Class ¹	Survey Respondents Who Do Not Place Online Orders	Total Item Respondents	Most Frequently Used Network						Total Item Nonrespondents
			Internet	Intranet	EDI Network	Extranet	Other	Don't Know	
Plant Count Totals	23,800	14,644	10,141	938	1,963	146	143	880	541
Plants with-									
1-4 employees	431	122	68	15	11	(D)	9	(D)	12
5-9 employees	953	264	197	20	6	0	23	18	26
10-19 employees	2,199	774	590	51	20	(D)	43	(D)	45
20-49 employees	4,974	2,135	1,605	123	113	15	107	172	93
50-99 employees	4,786	2,553	1,919	173	193	17	90	161	99
100-249 employees	5,982	4,325	3,126	247	520	44	155	233	128
250-499 employees	2,690	2,331	1,521	148	447	29	80	106	68
500-999 employees	1,130	1,289	727	86	358	22	39	57	36
1,000-2,499 employees	327	522	224	51	186	12	17	32	16
2,500 employees or more	40	153	35	13	84	4	8	9	4
Employment unknown	288	176	129	11	25	0	5	6	14

Respondent may be counted in more than one column.

(D) Withheld to avoid disclosing data of individual companies; data are included in higher level totals.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

Table 5A. Most Frequently Used Network in 2000 to Accept Orders Online for Manufactured Products by Number of Responding Manufacturing Plants by Subsector

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Survey Respondents Who Do Not Place Online Orders	Total Item Respondents	Most Frequently Used Network						Total Item Nonrespondents
				Internet	Intranet	EDI Network	Extranet	Other	Don't Know	
Plant Count Totals		25,196	13,268	4,185	865	6,621	159	613	825	521
311	Food Products	2,443	944	194	111	472	(D)	(D)	98	43
312	Beverage and tobacco	285	116	38	17	41	(D)	(D)	9	9
313	Textile mills	529	231	40	18	150	(D)	(D)	14	6
314	Textile product mills	280	204	54	(D)	125	(D)	7	12	8
315	Apparel	518	370	73	(D)	266	(D)	8	15	17
316	Leather and allied products	99	77	27	(D)	43	(D)	(D)	1	3
321	Wood products	1,727	384	143	39	119	5	35	43	31
322	Paper	1,011	595	144	41	338	6	30	36	21
323	Printing and related support activities	1,173	934	634	56	147	9	32	56	22
324	Petroleum and coal products	466	98	19	16	42	0	7	14	13
325	Chemicals	1,827	778	209	111	347	10	40	61	34
326	Plastics and rubber products	1,580	1,103	241	55	703	8	37	59	36
327	Nonmetallic mineral products	1,685	392	122	54	152	(D)	(D)	41	22
331	Primary metals	756	494	102	24	319	6	20	23	16
332	Fabricated metal products	3,615	2,073	697	73	1,093	16	85	109	74
333	Machinery	2,478	1,288	538	67	490	29	74	90	61
334	Computer and electronic products	1,122	782	304	33	369	14	25	37	20
335	Electrical equipment, appliances, and components	611	491	106	49	277	12	26	21	11
336	Transportation equipment	892	862	114	51	609	16	38	34	24
337	Furniture and related products	953	378	113	13	202	6	20	24	20
339	Miscellaneous	1,146	674	273	25	317	9	22	28	30

Respondent may be counted in more than one column.

(D) Withheld to avoid disclosing data of individual companies; data are included in higher level totals.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

Table 5B. Most Frequently Used Network in 2000 to Accept Orders Online for Manufactured Products by Employment for Responding Manufacturing Plants by Subsector

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Survey Respondents Who Do Not Place Online Orders	Total Item Respondents	Most Frequently Used Network						Total Item Nonrespondents
				Internet	Intranet	EDI Network	Extranet	Other	Don't Know	
	Associated Employment Totals¹	4,409,619	3,536,289	645,548	258,388	2,185,483	81,130	185,870	179,870	4,497,595
311	Food Products	525,146	271,091	42,918	30,153	147,875	(D)	(D)	24,405	535,237
312	Beverage and tobacco	57,223	31,405	4,378	4,419	14,707	(D)	(D)	1,737	59,011
313	Textile mills	121,176	81,924	6,513	4,592	60,753	(D)	(D)	3,701	121,708
314	Textile product mills	45,735	44,603	4,873	(D)	36,052	(D)	669	1,861	46,826
315	Apparel	79,458	88,380	10,109	(D)	70,873	(D)	1,282	2,919	82,262
316	Leather and allied products	14,113	19,699	3,285	(D)	15,216	(D)	(D)	125	14,495
321	Wood products	207,100	61,602	13,050	6,592	22,995	3,683	10,241	5,041	211,520
322	Paper	198,329	129,251	18,640	11,302	82,014	1,987	6,022	9,286	201,949
323	Printing and related support activities	141,201	116,906	63,840	8,368	29,975	1,838	3,904	8,981	142,679
324	Petroleum and coal products	50,983	14,676	2,435	2,504	7,086	0	1,214	1,437	51,595
325	Chemicals	280,027	197,490	39,897	18,938	102,191	2,533	8,483	25,448	286,854
326	Plastics and rubber products	254,405	246,562	32,864	11,944	184,543	1,948	8,048	7,215	259,215
327	Nonmetallic mineral products	168,924	68,927	13,940	10,515	39,281	(D)	(D)	2,366	170,918
331	Primary metals	187,091	180,390	22,562	4,395	141,996	2,743	5,042	3,652	189,966
332	Fabricated metal products	370,686	322,573	67,609	12,759	214,484	2,310	11,804	13,607	380,173
333	Machinery	377,365	324,804	81,592	26,547	156,778	16,801	28,629	14,457	387,854
334	Computer and electronic products	335,428	342,327	92,534	21,243	192,110	9,245	8,997	18,198	340,301
335	Electrical equipment, appliances, and components	142,684	191,543	26,573	15,268	128,959	6,247	10,312	4,184	145,973
336	Transportation equipment	538,264	543,907	47,383	53,836	366,385	19,744	33,960	22,599	547,397
337	Furniture and related products	155,827	117,232	16,490	3,466	81,116	3,145	7,533	5,482	158,873
339	Miscellaneous	158,454	140,997	34,063	7,505	90,094	1,899	4,267	3,169	162,789

Respondent may be counted in more than one column.

(D) Withheld to avoid disclosing data of individual companies; data are included in higher level totals.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

Table 5C. Most Frequently Used Network in 2000 to Accept Orders Online for Manufactured Products by Number of Responding Manufacturing Plants by Size Class

Employment Size Class ¹	Survey Respondents Who Do Not Place Online Orders	Total Item Respondents	Most Frequently Used Network						Total Item Nonrespondents
			Internet	Intranet	EDI Network	Extranet	Other	Don't Know	
Plant Count Totals	25,196	13,268	4,185	865	6,621	159	613	825	521
Plants with-									
1-4 employees	474	74	31	(D)	14	(D)	10	15	17
5-9 employees	990	231	146	(D)	25	(D)	15	30	22
10-19 employees	2,275	696	441	(D)	116	(D)	30	68	47
20-49 employees	5,119	1,978	1,076	97	524	10	93	178	105
50-99 employees	5,094	2,239	852	150	976	10	97	154	105
100-249 employees	6,360	3,967	969	268	2,283	49	187	211	108
250-499 employees	2,785	2,241	400	150	1,479	30	94	88	63
500-999 employees	1,250	1,170	145	85	810	30	49	51	35
1,000-2,499 employees	422	435	54	42	281	16	26	16	8
2,500 employees or more	94	102	17	6	58	5	11	5	1
Employment unknown	333	135	54	12	55	4	1	9	10

Respondent may be counted in more than one column.

(D) Withheld to avoid disclosing data of individual companies; data are included in higher level totals.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 6A. Manufacturing Plants that Provide Design Specifications Online in 2000
by Number of Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Recipients of Online Information			None of These	Total Item Nonrespondents
			Other Company Units	External Customers	External Suppliers		
Plant Count Totals		36,910	9,198	5,775	7,878	22,494	2,075
311	Food Products	3,203	572	270	125	2,483	227
312	Beverage and tobacco	391	64	41	16	313	19
313	Textile mills	719	193	37	67	486	47
314	Textile product mills	456	104	50	71	300	36
315	Apparel	847	147	59	92	629	58
316	Leather and allied products	166	30	10	6	128	13
321	Wood products	2,013	300	128	233	1,547	129
322	Paper	1,549	492	324	325	882	78
323	Printing and related support activities	2,022	363	230	586	1,241	107
324	Petroleum and coal products	540	136	49	43	380	37
325	Chemicals	2,487	760	324	249	1,584	152
326	Plastics and rubber products	2,579	704	456	666	1,464	140
327	Nonmetallic mineral products	1,994	357	158	276	1,458	105
331	Primary metals	1,187	283	171	251	741	79
332	Fabricated metal products	5,485	1,073	792	1,465	3,351	277
333	Machinery	3,655	1,170	951	1,361	1,602	172
334	Computer and electronic products	1,826	762	560	624	716	98
335	Electrical equipment, appliances, and components	1,063	424	267	339	454	50
336	Transportation equipment	1,693	655	454	501	770	85
337	Furniture and related products	1,281	244	169	243	851	70
339	Miscellaneous	1,754	365	275	339	1,114	96

Respondent may be counted in more than one column.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 6B. Manufacturing Plants that Provide Design Specifications Online in 2000
by Employment for Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Recipients of Online Information			None of These	Total Item Nonrespondents
			Other Company Units	External Customers	External Suppliers		
Associated Employment Totals¹		7,641,965	3,082,326	1,923,468	1,810,678	3,594,080	391,919
311	Food Products	754,120	178,615	90,768	39,402	538,394	52,208
312	Beverage and tobacco	87,875	26,210	19,734	12,335	57,731	2,541
313	Textile mills	190,011	64,462	9,263	17,125	117,119	13,621
314	Textile product mills	84,009	33,683	13,924	15,450	43,609	7,420
315	Apparel	161,414	49,354	14,939	19,955	100,092	9,228
316	Leather and allied products	31,512	9,530	2,436	372	21,305	2,682
321	Wood products	258,422	63,309	24,208	38,220	175,438	14,700
322	Paper	310,167	119,326	71,349	59,811	162,422	21,033
323	Printing and related support activities	246,306	62,708	30,545	66,620	146,949	13,279
324	Petroleum and coal products	63,002	30,714	14,905	3,852	30,653	3,269
325	Chemicals	460,914	202,888	112,222	55,601	229,272	23,430
326	Plastics and rubber products	483,347	173,917	105,911	130,809	236,459	22,430
327	Nonmetallic mineral products	226,954	68,183	38,055	42,268	135,608	12,891
331	Primary metals	352,484	137,928	78,500	99,664	157,489	17,872
332	Fabricated metal products	669,087	212,029	130,756	202,616	335,682	33,659
333	Machinery	687,498	342,975	255,924	239,993	231,845	25,160
334	Computer and electronic products	652,646	380,055	271,996	244,852	173,687	29,982
335	Electrical equipment, appliances, and components	321,504	186,520	111,442	91,758	96,259	16,012
336	Transportation equipment	1,052,515	547,827	411,810	310,767	338,800	38,789
337	Furniture and related products	260,364	88,444	52,356	64,393	123,129	15,741
339	Miscellaneous	287,814	103,649	62,425	54,815	142,138	15,972

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 6C. Manufacturing Plants that Provide Design Specifications Online in 2000
by Number of Responding Manufacturing Plants by Size Class**

Employment Size Class ¹	Total Item Respondents	Recipients of Online Information			None of These	Total Item Nonrespondents
		Other Company Units	External Customers	External Suppliers		
Plant Count Totals	36,910	9,198	5,775	7,878	22,494	2,075
Plants with-						
1-4 employees	526	56	29	53	439	39
5-9 employees	1,173	89	63	140	955	70
10-19 employees	2,865	261	227	459	2,191	153
20-49 employees	6,799	916	719	1,414	4,734	403
50-99 employees	7,023	1,417	974	1,544	4,470	415
100-249 employees	9,893	2,944	1,760	2,280	5,578	542
250-499 employees	4,837	1,816	1,005	1,105	2,423	252
500-999 employees	2,335	1,033	585	550	1,053	120
1,000-2,499 employees	821	442	262	188	318	44
2,500 employees or more	190	113	88	61	46	7
Employment unknown	448	111	63	84	287	30

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 7A. Manufacturing Plants that Provide Product Descriptions or Catalogs Online in 2000
by Number of Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Recipients of Online Information			None of These	Total Item Nonrespondents
			Other Company Units	External Customers	External Suppliers		
Plant Count Totals		36,919	7,273	4,724	13,417	20,304	2,066
311	Food Products	3,209	515	262	570	2,222	221
312	Beverage and tobacco	386	59	32	68	274	24
313	Textile mills	713	148	44	136	459	53
314	Textile product mills	457	94	41	150	248	35
315	Apparel	842	105	49	243	540	63
316	Leather and allied products	171	27	17	62	93	8
321	Wood products	2,011	232	126	458	1,437	131
322	Paper	1,531	278	151	419	975	96
323	Printing and related support activities	2,004	277	184	743	1,131	125
324	Petroleum and coal products	540	107	50	110	368	37
325	Chemicals	2,495	717	357	911	1,284	144
326	Plastics and rubber products	2,572	492	333	970	1,399	147
327	Nonmetallic mineral products	2,009	309	186	568	1,303	90
331	Primary metals	1,193	231	120	431	665	73
332	Fabricated metal products	5,478	804	714	1,939	3,176	284
333	Machinery	3,660	929	725	1,955	1,417	167
334	Computer and electronic products	1,847	667	471	1,205	496	77
335	Electrical equipment, appliances, and components	1,075	346	236	598	376	38
336	Transportation equipment	1,672	436	272	622	858	106
337	Furniture and related products	1,271	180	134	439	743	80
339	Miscellaneous	1,783	320	220	820	840	67

Respondent may be counted in more than one column.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 7B. Manufacturing Plants that Provide Product Descriptions or Catalogs Online in 2000
by Employment for Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Recipients of Online Information			None of These	Total Item Nonrespondents
			Other Company Units	External Customers	External Suppliers		
Associated Employment Totals¹		7,601,673	2,415,260	1,325,614	3,190,957	3,394,809	432,211
311	Food Products	746,807	176,514	67,134	153,888	471,264	59,521
312	Beverage and tobacco	87,244	25,564	8,608	17,099	54,238	3,172
313	Textile mills	189,484	51,115	10,784	36,108	112,643	14,148
314	Textile product mills	82,035	26,479	9,191	29,941	37,043	9,394
315	Apparel	159,571	31,734	13,450	55,246	83,309	11,071
316	Leather and allied products	33,364	7,660	3,253	14,277	16,103	830
321	Wood products	254,471	54,429	22,843	85,045	149,357	18,651
322	Paper	306,196	73,787	28,906	93,687	177,442	25,004
323	Printing and related support activities	247,112	56,330	28,601	106,537	120,336	12,473
324	Petroleum and coal products	63,680	22,785	8,002	15,940	31,779	2,591
325	Chemicals	467,759	203,718	94,250	218,452	173,078	16,585
326	Plastics and rubber products	480,735	114,766	75,054	193,087	239,522	25,042
327	Nonmetallic mineral products	228,937	52,028	29,565	85,753	121,069	10,908
331	Primary metals	355,978	108,610	46,336	141,383	168,177	14,378
332	Fabricated metal products	668,740	165,219	119,962	304,878	308,532	34,006
333	Machinery	687,134	276,937	174,561	412,293	194,493	25,524
334	Computer and electronic products	653,186	307,749	203,313	413,315	151,518	29,442
335	Electrical equipment, appliances, and components	328,238	142,080	82,081	190,394	98,013	9,278
336	Transportation equipment	1,017,170	354,865	220,700	345,466	487,186	74,134
337	Furniture and related products	252,759	65,607	36,075	118,816	103,726	23,346
339	Miscellaneous	291,073	97,284	42,945	159,352	95,981	12,713

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 7C. Manufacturing Plants that Provide Product Descriptions or Catalogs Online in 2000
by Number of Responding Manufacturing Plants by Size Class**

Employment Size Class ¹	Total Item Respondents	Recipients of Online Information			None of These	Total Item Nonrespondents
		Other Company Units	External Customers	External Suppliers		
Plant Count Totals	36,919	7,273	4,724	13,417	20,304	2,066
Plants with-						
1-4 employees	521	44	25	72	424	44
5-9 employees	1,160	75	61	180	930	83
10-19 employees	2,853	225	195	708	2,019	165
20-49 employees	6,817	781	736	2,212	4,210	385
50-99 employees	7,037	1,114	853	2,632	3,897	401
100-249 employees	9,929	2,298	1,392	3,964	4,979	506
250-499 employees	4,828	1,407	772	1,994	2,253	261
500-999 employees	2,325	813	417	1,024	984	130
1,000-2,499 employees	816	342	169	391	299	49
2,500 employees or more	185	90	46	75	67	12
Employment unknown	448	84	58	165	242	30

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 8A. Manufacturing Plants that Provide Demand Projections Online in 2000
by Number of Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Recipients of Online Information			None of These	Total Item Nonrespondents
			Other Company Units	External Customers	External Suppliers		
Plant Count Totals		36,250	6,884	2,353	1,859	27,479	2,735
311	Food Products	3,210	656	106	65	2,493	220
312	Beverage and tobacco	386	107	35	(D)	263	24
313	Textile mills	709	181	43	34	503	57
314	Textile product mills	455	99	18	21	343	37
315	Apparel	831	120	27	40	678	74
316	Leather and allied products	164	23	5	(D)	136	15
321	Wood products	1,990	233	29	37	1,721	152
322	Paper	1,532	357	86	82	1,127	95
323	Printing and related support activities	1,964	214	55	112	1,657	165
324	Petroleum and coal products	533	138	24	14	386	44
325	Chemicals	2,466	776	143	77	1,618	173
326	Plastics and rubber products	2,518	526	200	197	1,813	201
327	Nonmetallic mineral products	1,968	297	40	33	1,645	131
331	Primary metals	1,174	242	57	100	850	92
332	Fabricated metal products	5,389	672	301	364	4,334	373
333	Machinery	3,531	593	302	181	2,693	296
334	Computer and electronic products	1,790	485	259	120	1,155	134
335	Electrical equipment, appliances, and components	1,042	278	146	72	682	71
336	Transportation equipment	1,630	461	319	195	961	148
337	Furniture and related products	1,246	163	56	31	1,048	105
339	Miscellaneous	1,722	263	102	65	1,373	128

Respondent may be counted in more than one column.

(D) Withheld to avoid disclosing data of individual companies; data are included in higher level totals.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 8B. Manufacturing Plants that Provide Demand Projections Online in 2000
by Employment for Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Recipients of Online Information			None of These	Total Item Nonrespondents
			Other Company Units	External Customers	External Suppliers		
	Associated Employment Totals¹	7,456,719	2,424,526	1,156,375	561,287	3,394,809	577,165
311	Food Products	746,579	203,988	35,208	22,384	471,264	59,749
312	Beverage and tobacco	86,954	31,858	14,246	(D)	54,238	3,462
313	Textile mills	188,574	62,169	12,115	14,059	112,643	15,058
314	Textile product mills	85,845	33,707	5,207	6,014	37,043	5,584
315	Apparel	157,011	42,695	8,539	10,206	83,309	13,631
316	Leather and allied products	30,640	8,009	2,046	(D)	16,103	3,554
321	Wood products	253,373	42,301	10,416	5,288	149,357	19,749
322	Paper	311,689	103,154	28,929	16,530	177,442	19,511
323	Printing and related support activities	243,775	46,817	11,058	20,227	120,336	15,810
324	Petroleum and coal products	63,206	31,197	6,409	2,259	31,779	3,065
325	Chemicals	454,100	210,207	51,705	22,805	173,078	30,244
326	Plastics and rubber products	467,522	126,052	52,371	48,244	239,522	38,255
327	Nonmetallic mineral products	224,992	57,937	14,189	5,463	121,069	14,853
331	Primary metals	349,871	102,294	34,946	38,575	168,177	20,485
332	Fabricated metal products	658,259	136,170	68,117	50,567	308,532	44,487
333	Machinery	660,889	200,709	152,371	34,649	194,493	51,769
334	Computer and electronic products	640,238	272,446	172,030	72,045	151,518	42,390
335	Electrical equipment, appliances, and components	313,359	114,518	76,763	25,238	98,013	24,157
336	Transportation equipment	986,997	432,770	342,738	131,492	487,186	104,307
337	Furniture and related products	249,331	72,195	25,719	11,498	103,726	26,774
339	Miscellaneous	283,515	93,333	31,253	12,104	95,981	20,271

Respondent may be counted in more than one column.

(D) Withheld to avoid disclosing data of individual companies; data are included in higher level totals.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 8C. Manufacturing Plants that Provide Demand Projections Online in 2000
by Number of Responding Manufacturing Plants by Size Class**

Employment Size Class ¹	Total Item Respondents	Recipients of Online Information			None of These	Total Item Nonrespondents
		Other Company Units	External Customers	External Suppliers		
Plant Count Totals	36,250	6,884	2,353	1,859	23,886	2,735
Plants with-						
1-4 employees	516	43	6	11	446	49
5-9 employees	1,143	58	14	18	989	100
10-19 employees	2,816	204	55	86	2,291	202
20-49 employees	6,684	656	176	274	5,022	518
50-99 employees	6,912	1,024	282	295	4,890	526
100-249 employees	9,723	2,197	648	524	5,987	712
250-499 employees	4,748	1,366	524	343	2,530	341
500-999 employees	2,292	794	370	192	1,080	163
1,000-2,499 employees	801	367	188	71	303	64
2,500 employees or more	177	92	66	21	42	20
Employment unknown	438	83	24	24	306	40

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 9A. Manufacturing Plants that Provide Order Status Online in 2000
by Number of Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Recipients of Online Information			None of These	Total Item Nonrespondents
			Other Company Units	External Customers	External Suppliers		
	Plant Count Totals	36,732	8,425	2,218	6,391	23,886	2,253
311	Food Products	3,247	760	200	311	2,200	183
312	Beverage and tobacco	386	109	32	47	244	24
313	Textile mills	727	219	29	117	440	39
314	Textile product mills	466	127	21	86	281	26
315	Apparel	844	165	34	160	557	61
316	Leather and allied products	164	30	5	28	111	15
321	Wood products	2,025	360	45	156	1,548	117
322	Paper	1,545	456	78	325	900	82
323	Printing and related support activities	2,021	369	109	476	1,309	108
324	Petroleum and coal products	534	126	18	28	392	43
325	Chemicals	2,497	895	126	339	1,427	142
326	Plastics and rubber products	2,548	619	174	496	1,580	171
327	Nonmetallic mineral products	1,988	355	51	155	1,532	111
331	Primary metals	1,188	300	69	264	717	78
332	Fabricated metal products	5,441	875	304	1,005	3,802	321
333	Machinery	3,589	766	272	714	2,312	238
334	Computer and electronic products	1,813	537	182	459	998	111
335	Electrical equipment, appliances, and components	1,049	333	110	258	562	64
336	Transportation equipment	1,662	500	218	466	861	116
337	Furniture and related products	1,257	219	54	192	915	94
339	Miscellaneous	1,741	305	87	309	1,198	109

Respondent may be counted in more than one column.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 9B. Manufacturing Plants that Provide Order Status Online in 2000
by Employment for Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Recipients of Online Information			None of These	Total Item Nonrespondents
			Other Company Units	External Customers	External Suppliers		
Associated Employment Totals¹		7,591,644	2,765,894	844,042	1,977,211	3,713,123	442,240
311	Food Products	761,987	227,881	47,001	89,673	467,003	44,341
312	Beverage and tobacco	87,674	35,059	9,576	18,068	45,626	2,742
313	Textile mills	194,567	70,392	8,503	37,663	100,942	9,065
314	Textile product mills	87,656	38,211	5,686	23,039	36,386	3,773
315	Apparel	159,874	54,662	8,734	37,270	80,802	10,768
316	Leather and allied products	31,575	9,781	995	7,838	16,017	2,619
321	Wood products	257,884	62,313	5,575	26,795	180,830	15,238
322	Paper	312,879	119,423	19,560	89,157	147,660	18,321
323	Printing and related support activities	249,439	67,917	17,986	83,450	130,401	10,146
324	Petroleum and coal products	63,337	22,785	3,576	3,807	38,335	2,934
325	Chemicals	457,595	211,604	59,072	111,846	204,584	26,749
326	Plastics and rubber products	474,563	145,498	49,619	110,234	250,963	31,214
327	Nonmetallic mineral products	227,398	62,313	12,644	34,044	146,026	12,447
331	Primary metals	354,226	129,359	34,576	141,252	151,071	16,130
332	Fabricated metal products	660,415	166,214	48,818	151,048	397,536	42,331
333	Machinery	670,498	228,585	87,547	188,313	334,106	42,160
334	Computer and electronic products	651,435	293,096	122,856	248,297	233,213	31,193
335	Electrical equipment, appliances, and components	323,120	135,632	46,537	113,029	122,801	14,396
336	Transportation equipment	1,022,301	501,437	224,906	311,676	361,317	69,003
337	Furniture and related products	257,746	89,985	13,235	74,380	124,959	18,359
339	Miscellaneous	285,475	93,747	17,040	76,332	142,545	18,311

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 9C. Manufacturing Plants that Provide Order Status Online in 2000
by Number of Responding Manufacturing Plants by Size Class**

Employment Size Class ¹	Total Item Respondents	Recipients of Online Information			None of These	Total Item Nonrespondents
		Other Company Units	External Customers	External Suppliers		
Plant Count Totals	36,732	8,425	2,218	6,391	23,886	2,253
Plants with-						
1-4 employees	515	48	12	27	446	50
5-9 employees	1,160	89	25	89	989	83
10-19 employees	2,835	281	100	288	2,291	183
20-49 employees	6,765	909	333	921	5,022	437
50-99 employees	6,988	1,322	309	1,018	4,890	450
100-249 employees	9,891	2,759	593	1,820	5,987	544
250-499 employees	4,816	1,575	408	1,156	2,530	273
500-999 employees	2,320	868	240	666	1,080	135
1,000-2,499 employees	815	381	124	259	303	50
2,500 employees or more	184	109	45	77	42	13
Employment unknown	443	84	29	70	306	35

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 10A. Manufacturing Plants that Provide Production Schedules Online in 2000
by Number of Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Recipients of Online Information			None of These	Total Item Nonrespondents
			Other Company Units	External Customers	External Suppliers		
	Plant Count Totals	36,542	8,905	1,579	2,788	25,599	2,443
311	Food Products	3,246	854	79	85	2,341	184
312	Beverage and tobacco	387	126	22	10	256	23
313	Textile mills	723	239	8	28	463	43
314	Textile product mills	458	121	9	18	325	34
315	Apparel	840	188	28	63	599	65
316	Leather and allied products	170	35	5	7	129	9
321	Wood products	2,005	334	22	55	1,627	137
322	Paper	1,536	465	43	116	1,018	91
323	Printing and related support activities	1,997	380	48	229	1,464	132
324	Petroleum and coal products	543	163	9	11	374	34
325	Chemicals	2,498	942	68	87	1,504	141
326	Plastics and rubber products	2,536	662	120	196	1,725	183
327	Nonmetallic mineral products	1,987	395	24	48	1,569	112
331	Primary metals	1,183	320	48	123	783	83
332	Fabricated metal products	5,402	905	214	652	3,977	360
333	Machinery	3,552	771	238	340	2,484	275
334	Computer and electronic products	1,795	543	145	185	1,133	129
335	Electrical equipment, appliances, and components	1,048	351	88	100	632	65
336	Transportation equipment	1,656	563	263	268	895	122
337	Furniture and related products	1,249	238	37	73	960	102
339	Miscellaneous	1,731	310	61	94	1,341	119

Respondent may be counted in more than one column.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 10B. Manufacturing Plants that Provide Production Schedules Online in 2000
by Employment for Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Recipients of Online Information			None of These	Total Item Nonrespondents
			Other Company Units	External Customers	External Suppliers		
Associated Employment Totals¹		7,552,068	2,982,670	889,963	745,826	4,068,203	481,816
311	Food Products	761,703	273,032	24,212	22,576	479,203	44,625
312	Beverage and tobacco	88,046	37,780	10,963	4,725	46,659	2,370
313	Textile mills	193,178	79,998	4,244	5,588	108,799	10,454
314	Textile product mills	85,751	36,523	2,793	4,641	46,837	5,678
315	Apparel	159,055	61,114	9,057	13,545	86,842	11,587
316	Leather and allied products	31,969	9,690	2,225	2,325	21,773	2,225
321	Wood products	256,334	60,548	9,047	5,602	188,341	16,788
322	Paper	314,807	130,124	15,967	30,075	172,919	16,393
323	Printing and related support activities	247,859	77,288	7,353	37,343	150,990	11,726
324	Petroleum and coal products	63,906	34,969	708	297	28,625	2,365
325	Chemicals	460,727	227,552	23,512	18,666	220,458	23,617
326	Plastics and rubber products	472,172	160,135	30,266	37,253	286,267	33,605
327	Nonmetallic mineral products	228,775	74,873	7,109	9,607	150,050	11,070
331	Primary metals	346,850	135,675	29,168	55,337	179,365	23,506
332	Fabricated metal products	653,632	173,352	46,667	79,584	417,836	49,114
333	Machinery	666,023	244,760	123,397	67,911	358,920	46,635
334	Computer and electronic products	639,952	287,292	122,796	102,791	290,889	42,676
335	Electrical equipment, appliances, and components	319,866	146,955	59,700	35,245	145,022	17,650
336	Transportation equipment	1,025,446	535,790	316,127	176,837	375,072	65,858
337	Furniture and related products	253,531	95,110	27,443	21,590	143,356	22,574
339	Miscellaneous	282,486	100,110	17,209	14,288	169,980	21,300

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 10C. Manufacturing Plants that Provide Production Schedules Online in 2000
by Number of Responding Manufacturing Plants by Size Class**

Employment Size Class ¹	Total Item Respondents	Recipients of Online Information			None of These	Total Item Nonrespondents
		Other Company Units	External Customers	External Suppliers		
Plant Count Totals	36,542	8,905	1,579	2,788	25,599	2,443
Plants with-						
1-4 employees	519	62	8	15	444	46
5-9 employees	1,153	83	10	40	1,036	90
10-19 employees	2,822	277	43	140	2,429	196
20-49 employees	6,719	907	134	482	5,379	483
50-99 employees	6,967	1,409	176	493	5,194	471
100-249 employees	9,815	2,835	391	806	6,446	620
250-499 employees	4,798	1,728	357	431	2,774	291
500-999 employees	2,303	953	228	245	1,188	152
1,000-2,499 employees	818	436	142	83	331	47
2,500 employees or more	184	113	68	32	52	13
Employment unknown	444	102	22	21	326	34

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 11A. Manufacturing Plants that Provide Inventory Data Online in 2000
by Number of Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Recipients of Online Information			None of These	Total Item Nonrespondents
			Other Company Units	External Customers	External Suppliers		
	Plant Count Totals	36,701	10,409	1,449	2,484	24,674	2,284
311	Food Products	3,267	1,028	105	124	2,158	163
312	Beverage and tobacco	390	168	25	19	216	20
313	Textile mills	724	271	23	73	410	42
314	Textile product mills	467	131	10	28	319	25
315	Apparel	846	207	23	69	593	59
316	Leather and allied products	169	38	4	6	127	10
321	Wood products	2,020	463	28	62	1,502	122
322	Paper	1,552	552	64	209	884	75
323	Printing and related support activities	2,001	381	77	208	1,475	128
324	Petroleum and coal products	550	202	10	14	341	27
325	Chemicals	2,511	1,141	98	121	1,298	128
326	Plastics and rubber products	2,552	813	106	187	1,625	167
327	Nonmetallic mineral products	1,985	485	26	55	1,469	114
331	Primary metals	1,186	374	49	124	737	80
332	Fabricated metal products	5,414	1,050	169	401	4,077	348
333	Machinery	3,561	849	150	221	2,557	266
334	Computer and electronic products	1,812	639	139	145	1,077	112
335	Electrical equipment, appliances, and components	1,048	391	82	98	601	65
336	Transportation equipment	1,652	617	158	159	937	126
337	Furniture and related products	1,260	244	39	73	968	91
339	Miscellaneous	1,734	365	64	88	1,303	116

Respondent may be counted in more than one column.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 11B. Manufacturing Plants that Provide Inventory Data Online in 2000
by Employment for Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Recipients of Online Information			None of These	Total Item Nonrespondents
			Other Company Units	External Customers	External Suppliers		
	Associated Employment Totals¹	7,561,910	3,263,296	754,838	818,380	3,843,418	471,974
311	Food Products	763,928	304,786	30,336	33,039	441,890	42,400
312	Beverage and tobacco	87,974	50,370	11,118	12,450	36,330	2,442
313	Textile mills	195,208	90,096	6,346	24,136	90,510	8,424
314	Textile product mills	87,296	37,863	5,114	8,252	43,803	4,133
315	Apparel	160,474	66,535	8,647	16,825	83,734	10,168
316	Leather and allied products	32,496	11,078	2,327	3,403	19,716	1,698
321	Wood products	257,976	80,315	6,276	6,967	171,887	15,146
322	Paper	316,005	139,670	21,769	54,686	150,788	15,195
323	Printing and related support activities	247,032	78,381	18,826	40,438	144,179	12,553
324	Petroleum and coal products	64,576	37,949	1,667	2,029	25,797	1,695
325	Chemicals	460,012	252,404	32,289	28,578	190,104	24,332
326	Plastics and rubber products	475,970	190,937	30,766	43,167	263,215	29,807
327	Nonmetallic mineral products	227,436	84,759	6,630	13,397	135,694	12,409
331	Primary metals	353,025	153,476	45,093	81,861	154,352	17,331
332	Fabricated metal products	657,189	192,149	32,717	57,948	428,710	45,557
333	Machinery	667,699	265,707	81,575	78,356	352,239	44,959
334	Computer and electronic products	635,974	315,614	114,026	84,390	273,803	46,654
335	Electrical equipment, appliances, and components	322,242	160,019	54,557	47,583	131,342	15,274
336	Transportation equipment	1,021,554	547,897	206,438	125,645	412,744	69,750
337	Furniture and related products	245,242	90,218	17,154	29,500	138,682	30,863
339	Miscellaneous	282,602	113,073	21,167	25,730	153,899	21,184

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 11C. Manufacturing Plants that Provide Inventory Data Online in 2000
by Number of Responding Manufacturing Plants by Size Class**

Employment Size Class ¹	Total Item Respondents	Recipients of Online Information			None of These	Total Item Nonrespondents
		Other Company Units	External Customers	External Suppliers		
Plant Count Totals	36,701	10,409	1,449	2,484	24,674	2,284
Plants with-						
1-4 employees	523	94	8	10	423	42
5-9 employees	1,162	125	10	16	1,024	81
10-19 employees	2,828	374	34	84	2,384	190
20-49 employees	6,744	1,131	127	298	5,345	458
50-99 employees	6,979	1,701	171	366	5,012	459
100-249 employees	9,894	3,308	408	772	6,120	541
250-499 employees	4,810	1,939	297	493	2,578	279
500-999 employees	2,322	1,055	205	284	1,116	133
1,000-2,499 employees	813	452	118	109	310	52
2,500 employees or more	182	116	56	31	48	15
Employment unknown	444	114	15	21	314	34

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

Table 12A. Manufacturing Plants that Provide Logistics or Transportation Information Online in 2000 by Number of Responding Manufacturing Plants by Subsector

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Recipients of Online Information			None of These	Total Item Nonrespondents
			Other Company Units	External Customers	External Suppliers		
Plant Count Totals		36,446	7,346	2,527	4,134	26,158	2,539
311	Food Products	3,254	859	184	236	2,256	176
312	Beverage and tobacco	386	127	37	32	243	24
313	Textile mills	711	187	24	65	481	55
314	Textile product mills	450	96	23	54	314	42
315	Apparel	832	128	54	118	610	73
316	Leather and allied products	167	25	6	20	127	12
321	Wood products	1,990	280	59	88	1,638	152
322	Paper	1,544	405	130	201	1,031	83
323	Printing and related support activities	1,984	264	140	235	1,516	145
324	Petroleum and coal products	542	150	22	34	379	35
325	Chemicals	2,485	910	187	258	1,441	154
326	Plastics and rubber products	2,534	552	195	342	1,734	185
327	Nonmetallic mineral products	1,986	325	76	129	1,579	113
331	Primary metals	1,192	247	101	180	811	74
332	Fabricated metal products	5,395	652	285	614	4,231	367
333	Machinery	3,532	545	285	394	2,679	295
334	Computer and electronic products	1,794	432	178	283	1,195	130
335	Electrical equipment, appliances, and components	1,034	284	108	170	645	79
336	Transportation equipment	1,650	437	253	372	960	128
337	Furniture and related products	1,258	200	58	108	985	93
339	Miscellaneous	1,726	241	122	201	1,303	124

Respondent may be counted in more than one column.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 12B. Manufacturing Plants that Provide Logistics or Transportation Information Online in 2000
by Employment for Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Recipients of Online Information			None of These	Total Item Nonrespondents
			Other Company Units	External Customers	External Suppliers		
	Associated Employment Totals¹	7,550,640	2,539,006	1,075,368	1,407,653	4,150,232	483,244
311	Food Products	764,196	268,643	53,374	70,866	457,373	42,132
312	Beverage and tobacco	87,003	40,061	13,979	15,650	43,050	3,413
313	Textile mills	190,466	65,666	8,095	21,149	113,887	13,166
314	Textile product mills	83,352	31,512	6,536	15,809	42,524	8,077
315	Apparel	157,631	46,790	15,520	28,441	92,429	13,011
316	Leather and allied products	31,416	7,354	1,988	6,705	19,363	2,778
321	Wood products	254,239	52,212	9,807	19,227	188,754	18,883
322	Paper	317,185	118,044	46,893	62,981	169,505	14,015
323	Printing and related support activities	245,003	53,861	26,834	46,453	154,108	14,582
324	Petroleum and coal products	63,857	29,911	3,579	5,118	32,812	2,414
325	Chemicals	454,746	216,816	72,527	92,767	201,148	29,598
326	Plastics and rubber products	475,954	139,475	47,439	83,776	278,441	29,823
327	Nonmetallic mineral products	228,580	61,698	16,503	28,346	149,534	11,265
331	Primary metals	353,445	109,897	62,480	98,879	188,390	16,911
332	Fabricated metal products	654,449	132,716	46,795	105,411	443,988	48,297
333	Machinery	664,042	186,399	101,742	123,841	397,647	48,616
334	Computer and electronic products	643,017	253,369	116,273	159,042	304,859	39,611
335	Electrical equipment, appliances, and components	318,068	129,700	52,898	79,520	155,244	19,448
336	Transportation equipment	1,023,799	428,800	323,745	251,927	406,384	67,505
337	Furniture and related products	253,701	85,720	19,912	42,761	144,631	22,404
339	Miscellaneous	286,491	80,362	28,449	48,984	166,161	17,295

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

Table 12C. Manufacturing Plants that Provide Logistics or Transportation Information Online in 2000 by Number of Responding Manufacturing Plants by Size Class

Employment Size Class ¹	Total Item Respondents	Recipients of Online Information			None of These	Total Item Nonrespondents
		Other Company Units	External Customers	External Suppliers		
Plant Count Totals	36,446	7,346	2,527	4,134	26,158	2,539
Plants with-						
1-4 employees	510	47	13	15	451	55
5-9 employees	1,162	90	24	48	1,034	81
10-19 employees	2,815	235	82	139	2,443	203
20-49 employees	6,683	700	291	490	5,512	519
50-99 employees	6,935	1,126	390	614	5,325	503
100-249 employees	9,809	2,320	710	1,225	6,659	626
250-499 employees	4,784	1,443	477	847	2,800	305
500-999 employees	2,303	833	289	465	1,198	152
1,000-2,499 employees	820	370	152	191	354	45
2,500 employees or more	183	103	69	60	49	14
Employment unknown	442	79	30	40	333	36

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 13A. Use of Online Access to Vendors' Products or Catalogs in 2000
by Number of Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Plant Count Totals	34,281	17,198	8,499	8,584	4,704
311	Food Products	2,971	1,258	843	870	459
312	Beverage and tobacco	370	158	91	121	40
313	Textile mills	660	225	195	240	106
314	Textile product mills	402	166	102	134	90
315	Apparel	685	189	185	311	220
316	Leather and allied products	146	54	35	57	33
321	Wood products	1,643	641	375	627	499
322	Paper	1,511	716	411	384	116
323	Printing and related support activities	1,908	958	499	451	221
324	Petroleum and coal products	432	211	91	130	145
325	Chemicals	2,466	1,376	583	507	173
326	Plastics and rubber products	2,473	1,239	602	632	246
327	Nonmetallic mineral products	1,637	686	414	537	462
331	Primary metals	1,169	626	304	239	97
332	Fabricated metal products	5,051	2,542	1,243	1,266	711
333	Machinery	3,565	2,104	833	628	262
334	Computer and electronic products	1,836	1,283	333	220	88
335	Electrical equipment, appliances, and components	1,050	649	221	180	63
336	Transportation equipment	1,658	919	417	322	120
337	Furniture and related products	1,075	453	306	316	276
339	Miscellaneous	1,573	745	416	412	277

Respondent may be counted in more than one column.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 13B. Use of Online Access to Vendors' Products or Catalogs in 2000
by Employment for Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Associated Employment Totals¹	7,667,011	4,471,423	1,923,479	1,272,109	366,873
311	Food Products	750,143	389,853	195,374	164,916	56,185
312	Beverage and tobacco	86,183	45,351	24,025	16,807	4,233
313	Textile mills	187,787	77,643	48,506	61,638	15,845
314	Textile product mills	84,257	38,042	23,206	23,009	7,172
315	Apparel	153,153	58,131	39,989	55,033	17,489
316	Leather and allied products	31,212	12,413	6,099	12,700	2,982
321	Wood products	240,812	106,650	59,847	74,315	32,310
322	Paper	318,318	184,480	80,000	53,838	12,882
323	Printing and related support activities	249,264	150,641	58,256	40,367	10,321
324	Petroleum and coal products	62,479	36,494	18,811	7,174	3,792
325	Chemicals	472,918	308,225	110,770	53,923	11,426
326	Plastics and rubber products	489,412	290,087	108,338	90,987	16,365
327	Nonmetallic mineral products	220,757	121,529	54,827	44,401	19,088
331	Primary metals	361,174	222,261	101,349	37,564	9,182
332	Fabricated metal products	667,156	366,590	174,780	125,786	35,590
333	Machinery	697,327	429,838	187,955	79,534	15,331
334	Computer and electronic products	663,716	488,846	123,236	51,634	18,912
335	Electrical equipment, appliances, and components	329,481	211,773	73,590	44,118	8,035
336	Transportation equipment	1,056,252	669,632	280,575	106,045	35,052
337	Furniture and related products	253,917	109,284	72,658	71,975	22,188
339	Miscellaneous	291,293	153,660	81,288	56,345	12,493

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 13C. Use of Online Access to Vendors' Products or Catalogs in 2000
by Number of Responding Manufacturing Plants by Size Class**

Employment Size Class¹	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
Plant Count Totals	34,281	17,198	8,499	8,584	4,704
Plants with-					
1-4 employees	320	125	59	136	245
5-9 employees	731	280	150	301	512
10-19 employees	2,144	874	492	778	874
20-49 employees	5,911	2,539	1,423	1,949	1,291
50-99 employees	6,628	3,155	1,663	1,810	810
100-249 employees	9,855	5,118	2,522	2,215	580
250-499 employees	4,894	2,781	1,254	859	195
500-999 employees	2,378	1,480	573	325	77
1,000-2,499 employees	846	537	208	101	19
2,500 employees or more	192	131	45	16	5
Employment unknown	382	178	110	94	96

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 14A. Use of Online Ordering from Vendors in 2000
by Number of Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Plant Count Totals	34,203	11,078	12,635	10,490	4,782
311	Food Products	2,946	878	1,108	960	484
312	Beverage and tobacco	373	118	123	132	37
313	Textile mills	665	160	262	243	101
314	Textile product mills	406	95	151	160	86
315	Apparel	680	139	212	329	225
316	Leather and allied products	145	32	56	57	34
321	Wood products	1,648	394	504	750	494
322	Paper	1,516	472	605	439	111
323	Printing and related support activities	1,911	747	669	495	218
324	Petroleum and coal products	430	142	129	159	147
325	Chemicals	2,463	950	885	628	176
326	Plastics and rubber products	2,469	805	935	729	250
327	Nonmetallic mineral products	1,629	431	527	671	470
331	Primary metals	1,167	401	418	348	99
332	Fabricated metal products	5,027	1,507	1,898	1,622	735
333	Machinery	3,543	1,213	1,403	927	284
334	Computer and electronic products	1,830	792	649	389	94
335	Electrical equipment, appliances, and components	1,049	397	405	247	64
336	Transportation equipment	1,666	659	660	347	112
337	Furniture and related products	1,076	268	435	373	275
339	Miscellaneous	1,564	478	601	485	286

Respondent may be counted in more than one column.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 14B. Use of Online Ordering from Vendors in 2000
by Employment for Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Associated Employment Totals¹	7,651,297	3,238,814	2,885,770	1,526,713	382,587
311	Food Products	744,921	264,130	290,309	190,482	61,407
312	Beverage and tobacco	87,007	31,777	34,774	20,456	3,409
313	Textile mills	187,811	57,352	65,558	64,901	15,821
314	Textile product mills	85,641	24,939	33,457	27,245	5,788
315	Apparel	152,623	45,161	47,347	60,115	18,019
316	Leather and allied products	31,205	7,503	12,786	10,916	2,989
321	Wood products	242,061	71,255	78,637	92,169	31,061
322	Paper	318,947	113,914	136,096	68,937	12,253
323	Printing and related support activities	250,171	119,595	83,720	46,856	9,414
324	Petroleum and coal products	62,347	31,146	22,821	8,380	3,924
325	Chemicals	473,095	251,574	157,394	64,127	11,249
326	Plastics and rubber products	485,889	184,614	186,191	115,084	19,888
327	Nonmetallic mineral products	219,757	81,093	78,731	59,933	20,088
331	Primary metals	360,908	151,691	150,479	58,738	9,448
332	Fabricated metal products	668,990	239,081	269,556	160,353	33,756
333	Machinery	693,226	303,612	284,479	105,135	19,432
334	Computer and electronic products	661,862	359,774	224,737	77,351	20,766
335	Electrical equipment, appliances, and components	330,358	150,559	128,482	51,317	7,158
336	Transportation equipment	1,050,620	563,058	366,536	121,026	40,684
337	Furniture and related products	253,590	81,943	107,791	63,856	22,515
339	Miscellaneous	290,268	105,043	125,889	59,336	13,518

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 14C. Use of Online Ordering from Vendors in 2000
by Number of Responding Manufacturing Plants by Size Class**

Employment Size Class¹	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
Plant Count Totals	34,203	11,078	12,635	10,490	4,782
Plants with-					
1-4 employees	318	77	88	153	247
5-9 employees	724	196	201	327	519
10-19 employees	2,134	518	661	955	884
20-49 employees	5,880	1,509	1,995	2,376	1,322
50-99 employees	6,604	1,892	2,440	2,272	834
100-249 employees	9,854	3,325	3,819	2,710	581
250-499 employees	4,900	1,849	1,993	1,058	189
500-999 employees	2,378	1,036	944	398	77
1,000-2,499 employees	841	433	297	111	24
2,500 employees or more	190	119	54	17	7
Employment unknown	380	124	143	113	98

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 15A. Use of Online Payment to Vendors in 2000
by Number of Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Plant Count Totals	33,720	3,358	7,244	23,118	5,265
311	Food Products	2,905	317	689	1,899	525
312	Beverage and tobacco	369	67	68	234	41
313	Textile mills	654	56	151	447	112
314	Textile product mills	397	31	86	280	95
315	Apparel	675	52	120	503	230
316	Leather and allied products	142	12	20	110	37
321	Wood products	1,631	131	234	1,266	511
322	Paper	1,481	160	345	976	146
323	Printing and related support activities	1,883	150	403	1,330	246
324	Petroleum and coal products	422	83	69	270	155
325	Chemicals	2,426	370	621	1,435	213
326	Plastics and rubber products	2,418	232	521	1,665	301
327	Nonmetallic mineral products	1,615	127	276	1,212	484
331	Primary metals	1,149	126	246	777	117
332	Fabricated metal products	4,967	343	927	3,697	795
333	Machinery	3,499	300	767	2,432	328
334	Computer and electronic products	1,815	217	502	1,096	109
335	Electrical equipment, appliances, and components	1,027	123	239	665	86
336	Transportation equipment	1,636	269	438	929	142
337	Furniture and related products	1,061	69	190	802	290
339	Miscellaneous	1,548	123	332	1,093	302

Respondent may be counted in more than one column.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 15B. Use of Online Payment to Vendors in 2000
by Employment for Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Associated Employment Totals¹	7,550,898	1,477,638	2,103,157	3,970,103	482,986
311	Food Products	737,502	104,024	189,818	443,660	68,826
312	Beverage and tobacco	86,317	29,476	19,571	37,270	4,099
313	Textile mills	186,850	26,829	47,966	112,055	16,782
314	Textile product mills	82,114	7,413	27,782	46,919	9,315
315	Apparel	151,495	13,057	30,224	108,214	19,147
316	Leather and allied products	30,954	3,299	5,619	22,036	3,240
321	Wood products	239,690	22,823	48,333	168,534	33,432
322	Paper	314,526	55,544	90,362	168,620	16,674
323	Printing and related support activities	247,385	24,612	69,261	153,512	12,200
324	Petroleum and coal products	61,938	22,141	17,839	21,958	4,333
325	Chemicals	467,221	141,226	138,615	187,380	17,123
326	Plastics and rubber products	478,069	61,923	124,426	291,720	27,708
327	Nonmetallic mineral products	218,888	27,186	48,972	142,730	20,957
331	Primary metals	352,710	91,732	85,855	175,123	17,646
332	Fabricated metal products	659,339	69,485	171,611	418,243	43,407
333	Machinery	680,606	123,517	212,290	344,799	32,052
334	Computer and electronic products	663,308	192,888	215,143	255,277	19,320
335	Electrical equipment, appliances, and components	323,830	55,493	101,160	167,177	13,686
336	Transportation equipment	1,037,612	343,683	310,681	383,248	53,692
337	Furniture and related products	242,465	25,706	62,516	154,243	33,640
339	Miscellaneous	288,079	35,581	85,113	167,385	15,707

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 15C. Use of Online Payment to Vendors in 2000
by Number of Responding Manufacturing Plants by Size Class**

Employment Size Class¹	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
Plant Count Totals	33,720	3,358	7,244	23,118	5,265
Plants with-					
1-4 employees	310	26	26	258	255
5-9 employees	717	42	81	594	526
10-19 employees	2,109	107	273	1,729	909
20-49 employees	5,801	360	883	4,558	1,401
50-99 employees	6,491	459	1,191	4,841	947
100-249 employees	9,715	975	2,254	6,486	720
250-499 employees	4,832	623	1,375	2,834	257
500-999 employees	2,347	414	742	1,191	108
1,000-2,499 employees	834	226	282	326	31
2,500 employees or more	188	93	52	43	9
Employment unknown	376	33	85	258	102

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 16A. Plants Using Vendor Inventory Management Online in 2000
by Number of Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Plant Count Totals	33,656	2,265	5,635	25,756	5,329
311	Food Products	2,890	178	463	2,249	540
312	Beverage and tobacco	367	28	50	289	43
313	Textile mills	655	25	127	503	111
314	Textile product mills	393	(D)	(D)	333	99
315	Apparel	676	37	74	565	229
316	Leather and allied products	143	(D)	(D)	130	36
321	Wood products	1,627	54	173	1,400	515
322	Paper	1,485	113	306	1,066	142
323	Printing and related support activities	1,876	102	285	1,489	253
324	Petroleum and coal products	421	46	57	318	156
325	Chemicals	2,424	254	442	1,728	215
326	Plastics and rubber products	2,420	118	406	1,896	299
327	Nonmetallic mineral products	1,598	77	186	1,335	501
331	Primary metals	1,156	72	217	867	110
332	Fabricated metal products	4,964	249	728	3,987	798
333	Machinery	3,482	274	631	2,577	345
334	Computer and electronic products	1,808	204	404	1,200	116
335	Electrical equipment, appliances, and components	1,029	99	240	690	84
336	Transportation equipment	1,632	191	391	1,050	146
337	Furniture and related products	1,059	39	141	879	292
339	Miscellaneous	1,551	80	266	1,205	299

Respondent may be counted in more than one column.

(D) Withheld to avoid disclosing data of individual companies; data are included in higher level totals.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 16B. Plants Using Vendor Inventory Management Online in 2000
by Employment for Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Associated Employment Totals¹	7,514,260	1,006,544	1,773,855	4,733,861	519,624
311	Food Products	730,001	55,856	131,059	543,086	76,327
312	Beverage and tobacco	85,810	11,704	20,123	53,983	4,606
313	Textile mills	185,990	6,577	35,526	143,887	17,642
314	Textile product mills	82,365	8,316	9,926	64,123	9,064
315	Apparel	151,154	11,631	17,437	122,086	19,488
316	Leather and allied products	30,945	333	3,617	26,995	3,249
321	Wood products	239,183	14,892	38,968	185,323	33,939
322	Paper	313,513	42,195	81,571	189,747	17,687
323	Printing and related support activities	246,954	22,051	44,733	180,170	12,631
324	Petroleum and coal products	60,987	13,654	13,236	34,097	5,284
325	Chemicals	466,385	85,554	112,539	268,292	17,959
326	Plastics and rubber products	477,467	38,872	95,579	343,016	28,310
327	Nonmetallic mineral products	216,718	20,920	35,835	159,963	23,127
331	Primary metals	354,781	45,137	99,402	210,242	15,575
332	Fabricated metal products	659,031	56,924	145,792	456,315	43,715
333	Machinery	680,133	116,771	200,127	363,235	32,525
334	Computer and electronic products	652,601	146,536	189,208	316,857	30,027
335	Electrical equipment, appliances, and components	324,632	53,729	100,867	170,036	12,884
336	Transportation equipment	1,021,918	215,975	279,231	526,712	69,386
337	Furniture and related products	243,948	16,366	44,320	183,262	32,157
339	Miscellaneous	289,744	22,551	74,759	192,434	14,042

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 16C. Plants Using Vendor Inventory Management Online in 2000
by Number of Responding Manufacturing Plants by Size Class**

Employment Size Class ¹	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
Plant Count Totals	33,656	2,265	5,635	25,756	5,329
Plants with-					
1-4 employees	313	9	22	282	252
5-9 employees	716	15	46	655	527
10-19 employees	2,093	52	188	1,853	925
20-49 employees	5,784	179	584	5,021	1,418
50-99 employees	6,492	282	841	5,369	946
100-249 employees	9,705	600	1,875	7,230	730
250-499 employees	4,830	533	1,133	3,164	259
500-999 employees	2,333	355	580	1,398	122
1,000-2,499 employees	832	165	252	415	33
2,500 employees or more	184	50	53	81	13
Employment unknown	374	25	61	288	104

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 17A. Use of Online Bidding in 2000
by Number of Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Plant Count Totals	33,532	2,756	6,420	24,356	5,453
311	Food Products	2,880	128	523	2,229	550
312	Beverage and tobacco	363	14	49	300	47
313	Textile mills	655	17	90	548	111
314	Textile product mills	394	21	65	308	98
315	Apparel	671	19	75	577	234
316	Leather and allied products	146	8	17	121	33
321	Wood products	1,616	85	203	1,328	526
322	Paper	1,472	90	260	1,122	155
323	Printing and related support activities	1,880	254	413	1,213	249
324	Petroleum and coal products	421	31	88	302	156
325	Chemicals	2,394	155	454	1,785	245
326	Plastics and rubber products	2,404	230	424	1,750	315
327	Nonmetallic mineral products	1,594	87	278	1,229	505
331	Primary metals	1,149	120	284	745	117
332	Fabricated metal products	4,958	545	1,041	3,372	804
333	Machinery	3,473	320	698	2,455	354
334	Computer and electronic products	1,812	200	390	1,222	112
335	Electrical equipment, appliances, and components	1,024	104	238	682	89
336	Transportation equipment	1,621	189	411	1,021	157
337	Furniture and related products	1,061	51	171	839	290
339	Miscellaneous	1,544	88	248	1,208	306

Respondent may be counted in more than one column.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 17B. Use of Online Bidding in 2000
by Employment for Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Associated Employment Totals¹	7,482,744	770,491	1,786,406	4,925,847	551,140
311	Food Products	728,882	49,916	137,683	541,283	77,446
312	Beverage and tobacco	84,081	2,970	18,545	62,566	6,335
313	Textile mills	186,638	3,523	23,794	159,321	16,994
314	Textile product mills	82,454	1,845	15,291	65,318	8,975
315	Apparel	149,861	5,814	17,508	126,539	20,781
316	Leather and allied products	31,212	1,040	3,613	26,559	2,982
321	Wood products	237,112	9,536	33,464	194,112	36,010
322	Paper	309,714	14,149	73,186	222,379	21,486
323	Printing and related support activities	246,395	25,200	57,258	163,937	13,190
324	Petroleum and coal products	61,041	5,347	20,978	34,716	5,230
325	Chemicals	459,518	61,162	112,358	285,998	24,826
326	Plastics and rubber products	472,469	52,897	86,485	333,087	33,308
327	Nonmetallic mineral products	216,115	15,001	41,859	159,255	23,730
331	Primary metals	353,200	56,391	135,802	161,007	17,156
332	Fabricated metal products	657,021	74,398	157,142	425,481	45,725
333	Machinery	676,944	80,244	176,425	420,275	35,714
334	Computer and electronic products	655,750	78,670	176,921	400,159	26,878
335	Electrical equipment, appliances, and components	323,469	45,391	90,272	187,806	14,047
336	Transportation equipment	1,020,768	159,826	312,837	548,105	70,536
337	Furniture and related products	241,683	14,018	38,112	189,553	34,422
339	Miscellaneous	288,417	13,153	56,873	218,391	15,369

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 17C. Use of Online Bidding in 2000
by Number of Responding Manufacturing Plants by Size Class**

Employment Size Class¹	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
Plant Count Totals	33,532	2,756	6,420	24,356	5,453
Plants with-					
1-4 employees	313	20	40	253	252
5-9 employees	713	58	96	559	530
10-19 employees	2,091	164	341	1,586	927
20-49 employees	5,762	482	978	4,302	1,440
50-99 employees	6,474	517	1,122	4,835	964
100-249 employees	9,664	774	1,821	7,069	771
250-499 employees	4,807	377	1,068	3,362	282
500-999 employees	2,329	205	584	1,540	126
1,000-2,499 employees	822	97	235	490	43
2,500 employees or more	185	35	64	86	12
Employment unknown	372	27	71	274	106

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 18A. Use of Electronic Marketplaces Linking Specialized Business Buyers and Sellers in 2000
by Number of Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Plant Count Totals	33,403	2,350	8,661	22,392	5,582
311	Food Products	2,878	134	724	2,020	552
312	Beverage and tobacco	366	14	70	282	44
313	Textile mills	652	25	169	458	114
314	Textile product mills	389	22	82	285	103
315	Apparel	660	32	116	512	245
316	Leather and allied products	142	9	28	105	37
321	Wood products	1,605	68	308	1,229	537
322	Paper	1,470	78	405	987	157
323	Printing and related support activities	1,864	175	527	1,162	265
324	Petroleum and coal products	418	21	102	295	159
325	Chemicals	2,394	196	654	1,544	245
326	Plastics and rubber products	2,395	172	607	1,616	324
327	Nonmetallic mineral products	1,583	72	314	1,197	516
331	Primary metals	1,146	91	352	703	120
332	Fabricated metal products	4,935	391	1,233	3,311	827
333	Machinery	3,466	255	949	2,262	361
334	Computer and electronic products	1,803	194	539	1,070	121
335	Electrical equipment, appliances, and components	1,017	108	312	597	96
336	Transportation equipment	1,628	150	532	946	150
337	Furniture and related products	1,052	51	232	769	299
339	Miscellaneous	1,540	92	406	1,042	310

Respondent may be counted in more than one column.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

Table 18B. Use of Electronic Marketplaces Linking Specialized Business Buyers and Sellers in 2000 by Employment for Responding Manufacturing Plants by Subsector

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Associated Employment Totals¹	7,481,024	617,971	2,629,826	4,233,227	552,860
311	Food Products	731,882	47,272	199,498	485,112	74,446
312	Beverage and tobacco	85,576	5,244	23,999	56,333	4,840
313	Textile mills	185,788	5,543	57,752	122,493	17,844
314	Textile product mills	81,462	3,017	20,952	57,493	9,967
315	Apparel	147,757	8,466	30,768	108,523	22,885
316	Leather and allied products	30,539	1,304	9,074	20,161	3,655
321	Wood products	235,144	8,438	55,445	171,261	37,978
322	Paper	310,927	16,289	109,952	184,686	20,273
323	Printing and related support activities	243,955	22,732	78,160	143,063	15,630
324	Petroleum and coal products	60,910	2,917	28,198	29,795	5,361
325	Chemicals	456,915	54,874	182,032	220,009	27,429
326	Plastics and rubber products	471,180	39,904	136,481	294,795	34,597
327	Nonmetallic mineral products	214,902	12,432	50,975	151,495	24,943
331	Primary metals	353,452	32,971	164,377	156,104	16,904
332	Fabricated metal products	652,397	57,416	193,736	401,245	50,349
333	Machinery	678,311	52,282	255,107	370,922	34,347
334	Computer and electronic products	656,433	70,440	258,943	327,050	26,195
335	Electrical equipment, appliances, and components	323,906	38,336	116,854	168,716	13,610
336	Transportation equipment	1,031,824	113,458	499,750	418,616	59,480
337	Furniture and related products	241,236	12,533	59,109	169,594	34,869
339	Miscellaneous	286,528	12,103	98,664	175,761	17,258

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

Table 18C. Use of Electronic Marketplaces Linking Specialized Business Buyers and Sellers in 2000 by Number of Responding Manufacturing Plants by Size Class

Employment Size Class ¹	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
Plant Count Totals	33,403	2,350	8,661	22,392	5,582
Plants with-					
1-4 employees	307	14	42	251	258
5-9 employees	711	52	132	527	532
10-19 employees	2,087	147	411	1,529	931
20-49 employees	5,727	385	1,197	4,145	1,475
50-99 employees	6,443	440	1,529	4,474	995
100-249 employees	9,631	637	2,499	6,495	804
250-499 employees	4,797	354	1,483	2,960	292
500-999 employees	2,319	196	821	1,302	136
1,000-2,499 employees	823	78	344	401	42
2,500 employees or more	187	24	106	57	10
Employment unknown	371	23	97	251	107

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 19A. Use of Online Access to Plants' Products or Catalogs in 2000
by Number of Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Plant Count Totals	33,962	11,503	9,220	13,239	5,023
311	Food Products	2,911	553	789	1,569	519
312	Beverage and tobacco	366	78	77	211	44
313	Textile mills	654	139	191	324	112
314	Textile product mills	399	141	102	156	93
315	Apparel	683	236	156	291	222
316	Leather and allied products	144	53	38	53	35
321	Wood products	1,639	366	413	860	503
322	Paper	1,477	315	457	705	150
323	Printing and related support activities	1,894	610	573	711	235
324	Petroleum and coal products	425	99	82	244	152
325	Chemicals	2,435	790	679	966	204
326	Plastics and rubber products	2,447	816	679	952	272
327	Nonmetallic mineral products	1,623	493	419	711	476
331	Primary metals	1,160	341	347	472	106
332	Fabricated metal products	5,009	1,706	1,291	2,012	753
333	Machinery	3,540	1,608	986	946	287
334	Computer and electronic products	1,825	1,055	417	353	99
335	Electrical equipment, appliances, and components	1,046	539	250	257	67
336	Transportation equipment	1,653	529	415	709	125
337	Furniture and related products	1,067	368	364	335	284
339	Miscellaneous	1,565	668	495	402	285

Respondent may be counted in more than one column.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 19B. Use of Online Access to Plants' Products or Catalogs in 2000
by Employment for Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Associated Employment Totals¹	7,581,743	2,835,694	2,133,253	2,612,796	452,141
311	Food Products	737,215	165,116	192,404	379,695	69,113
312	Beverage and tobacco	85,837	18,324	22,522	44,991	4,579
313	Textile mills	186,121	40,413	57,737	87,971	17,511
314	Textile product mills	83,408	29,107	20,906	33,395	8,021
315	Apparel	152,572	61,523	26,732	64,317	18,070
316	Leather and allied products	30,810	13,608	7,503	9,699	3,384
321	Wood products	240,439	66,311	68,630	105,498	32,683
322	Paper	308,369	70,420	109,197	128,752	22,831
323	Printing and related support activities	248,841	88,445	67,435	92,961	10,744
324	Petroleum and coal products	61,967	13,091	13,871	35,005	4,304
325	Chemicals	464,313	184,413	129,368	150,532	20,031
326	Plastics and rubber products	481,947	165,295	126,183	190,469	23,830
327	Nonmetallic mineral products	218,721	72,843	60,125	85,753	21,124
331	Primary metals	358,732	112,401	126,566	119,765	11,624
332	Fabricated metal products	664,333	266,830	183,484	214,019	38,413
333	Machinery	690,808	369,308	201,427	120,073	21,850
334	Computer and electronic products	660,132	361,487	173,807	124,838	22,496
335	Electrical equipment, appliances, and components	327,463	176,880	80,235	70,348	10,053
336	Transportation equipment	1,043,793	320,673	286,893	436,227	47,511
337	Furniture and related products	246,471	103,487	83,069	59,915	29,634
339	Miscellaneous	289,451	135,719	95,159	58,573	14,335

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 19C. Use of Online Access to Plants' Products or Catalogs in 2000
by Number of Responding Manufacturing Plants by Size Class**

Employment Size Class¹	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
Plant Count Totals	34,342	11,503	2,555	13,239	4,643
Plants with-					
1-4 employees	315	61	59	195	250
5-9 employees	727	170	148	409	516
10-19 employees	2,122	603	525	994	896
20-49 employees	5,861	1,856	1,519	2,486	1,341
50-99 employees	6,561	2,285	1,780	2,496	877
100-249 employees	9,756	3,316	2,747	3,693	679
250-499 employees	4,869	1,755	1,378	1,736	220
500-999 employees	2,353	904	657	792	102
1,000-2,499 employees	832	350	225	257	33
2,500 employees or more	189	76	60	53	8
Employment unknown	377	127	122	128	101

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 20A. Use of Online Ordering by Customers in 2000
by Number of Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Plant Count Totals	33,929	8,409	11,949	13,571	5,056
311	Food Products	2,906	559	877	1,470	524
312	Beverage and tobacco	366	77	85	204	44
313	Textile mills	662	139	232	291	104
314	Textile product mills	400	135	131	134	92
315	Apparel	681	249	160	272	224
316	Leather and allied products	142	46	40	56	37
321	Wood products	1,630	200	518	912	512
322	Paper	1,492	345	587	560	135
323	Printing and related support activities	1,907	637	694	576	222
324	Petroleum and coal products	425	58	107	260	152
325	Chemicals	2,432	525	886	1,021	207
326	Plastics and rubber products	2,450	709	884	857	269
327	Nonmetallic mineral products	1,608	230	486	892	491
331	Primary metals	1,164	268	468	428	102
332	Fabricated metal products	4,996	1,253	1,715	2,028	766
333	Machinery	3,523	818	1,436	1,269	304
334	Computer and electronic products	1,818	520	793	505	106
335	Electrical equipment, appliances, and components	1,042	323	384	335	71
336	Transportation equipment	1,658	631	479	548	120
337	Furniture and related products	1,071	228	400	443	280
339	Miscellaneous	1,556	459	587	510	294

Respondent may be counted in more than one column.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 20B. Use of Online Ordering by Customers in 2000
by Employment for Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Associated Employment Totals¹	7,592,085	2,419,236	2,694,687	2,478,162	441,799
311	Food Products	735,780	165,598	209,826	360,356	70,548
312	Beverage and tobacco	85,973	29,449	15,872	40,652	4,443
313	Textile mills	187,770	42,810	65,576	79,384	15,862
314	Textile product mills	83,111	34,015	24,359	24,737	8,318
315	Apparel	151,437	64,613	28,375	58,449	19,205
316	Leather and allied products	30,503	11,623	9,643	9,237	3,691
321	Wood products	237,885	31,696	87,473	118,716	35,237
322	Paper	313,352	78,118	134,595	100,639	17,848
323	Printing and related support activities	249,626	80,912	91,470	77,244	9,959
324	Petroleum and coal products	62,083	10,252	16,144	35,687	4,188
325	Chemicals	466,496	153,938	164,555	148,003	17,848
326	Plastics and rubber products	482,398	167,737	156,087	158,574	23,379
327	Nonmetallic mineral products	218,104	44,614	79,126	94,364	21,741
331	Primary metals	358,811	99,468	167,225	92,118	11,545
332	Fabricated metal products	662,427	204,441	247,561	210,425	40,319
333	Machinery	686,199	223,288	303,100	159,811	26,459
334	Computer and electronic products	662,297	248,809	277,177	136,311	20,331
335	Electrical equipment, appliances, and components	327,096	129,290	117,890	79,916	10,420
336	Transportation equipment	1,055,187	413,572	289,824	351,791	36,117
337	Furniture and related products	245,960	82,479	90,901	72,580	30,145
339	Miscellaneous	289,590	102,514	117,908	69,168	14,196

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 20C. Use of Online Ordering by Customers in 2000
by Number of Responding Manufacturing Plants by Size Class**

Employment Size Class¹	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
Plant Count Totals	33,929	8,409	11,949	13,571	5,056
Plants with-					
1-4 employees	314	43	70	201	251
5-9 employees	718	126	175	417	525
10-19 employees	2,115	417	612	1,086	903
20-49 employees	5,842	1,244	1,918	2,680	1,360
50-99 employees	6,557	1,348	2,390	2,819	881
100-249 employees	9,767	2,468	3,655	3,644	668
250-499 employees	4,860	1,453	1,802	1,605	229
500-999 employees	2,350	826	827	697	105
1,000-2,499 employees	836	307	295	234	29
2,500 employees or more	191	82	57	52	6
Employment unknown	379	95	148	136	99

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 21A. Use of Online Payment by Customers in 2000
by Number of Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Plant Count Totals	33,571	4,307	8,103	21,161	5,414
311	Food Products	2,877	298	672	1,907	553
312	Beverage and tobacco	364	58	71	235	46
313	Textile mills	650	80	123	447	116
314	Textile product mills	391	79	77	235	101
315	Apparel	674	157	134	383	231
316	Leather and allied products	141	26	24	91	38
321	Wood products	1,620	103	261	1,256	522
322	Paper	1,471	215	384	872	156
323	Printing and related support activities	1,876	193	515	1,168	253
324	Petroleum and coal products	424	59	62	303	153
325	Chemicals	2,407	297	653	1,457	232
326	Plastics and rubber products	2,416	345	598	1,473	303
327	Nonmetallic mineral products	1,587	119	309	1,159	512
331	Primary metals	1,152	165	265	722	114
332	Fabricated metal products	4,957	620	1,124	3,213	805
333	Machinery	3,487	399	903	2,185	340
334	Computer and electronic products	1,800	273	597	930	124
335	Electrical equipment, appliances, and components	1,024	144	267	613	89
336	Transportation equipment	1,643	380	407	856	135
337	Furniture and related products	1,056	90	230	736	295
339	Miscellaneous	1,554	207	427	920	296

Respondent may be counted in more than one column.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 21B. Use of Online Payment by Customers in 2000
by Employment for Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Associated Employment Totals¹	7,522,786	1,580,824	2,054,517	3,887,445	511,098
311	Food Products	729,433	106,700	159,956	462,777	76,895
312	Beverage and tobacco	84,728	24,371	16,345	44,012	5,688
313	Textile mills	184,622	33,603	34,290	116,729	19,010
314	Textile product mills	81,702	21,643	19,219	40,840	9,727
315	Apparel	150,231	42,800	27,773	79,658	20,411
316	Leather and allied products	30,428	9,372	4,577	16,479	3,766
321	Wood products	237,182	15,350	52,045	169,787	35,940
322	Paper	306,657	53,845	87,146	165,666	24,543
323	Printing and related support activities	246,356	40,462	82,782	123,112	13,229
324	Petroleum and coal products	61,849	10,502	14,518	36,829	4,422
325	Chemicals	462,449	120,140	126,731	215,578	21,895
326	Plastics and rubber products	476,793	95,814	120,510	260,469	28,984
327	Nonmetallic mineral products	214,534	27,711	53,366	133,457	25,311
331	Primary metals	357,480	103,536	92,411	161,533	12,876
332	Fabricated metal products	655,301	108,180	180,913	366,208	47,445
333	Machinery	682,843	116,760	228,265	337,818	29,815
334	Computer and electronic products	657,275	183,045	225,867	248,363	25,353
335	Electrical equipment, appliances, and components	323,316	60,492	104,935	157,889	14,200
336	Transportation equipment	1,047,270	315,043	257,816	474,411	44,034
337	Furniture and related products	243,823	34,386	67,262	142,175	32,282
339	Miscellaneous	288,514	57,069	97,790	133,655	15,272

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 21C. Use of Online Payment by Customers in 2000
by Number of Responding Manufacturing Plants by Size Class**

Employment Size Class¹	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
Plant Count Totals	33,571	4,307	8,103	21,161	5,414
Plants with-					
1-4 employees	312	13	40	259	253
5-9 employees	713	42	94	577	530
10-19 employees	2,099	145	365	1,589	919
20-49 employees	5,779	503	1,143	4,133	1,423
50-99 employees	6,486	624	1,518	4,344	952
100-249 employees	9,646	1,308	2,471	5,867	789
250-499 employees	4,815	839	1,387	2,589	274
500-999 employees	2,325	498	681	1,146	130
1,000-2,499 employees	830	216	245	369	35
2,500 employees or more	192	73	52	67	5
Employment unknown	374	46	107	221	104

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 22A. Use of Online Management of Customers' Inventory in 2000
by Number of Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Plant Count Totals	33,471	2,840	5,800	24,831	5,514
311	Food Products	2,868	231	444	2,193	562
312	Beverage and tobacco	364	32	47	285	46
313	Textile mills	650	46	137	467	116
314	Textile product mills	396	43	68	285	96
315	Apparel	672	79	122	471	233
316	Leather and allied products	141	9	20	112	38
321	Wood products	1,612	58	192	1,362	530
322	Paper	1,474	202	363	909	153
323	Printing and related support activities	1,879	235	419	1,225	250
324	Petroleum and coal products	423	30	35	358	154
325	Chemicals	2,394	264	498	1,632	245
326	Plastics and rubber products	2,409	232	495	1,682	310
327	Nonmetallic mineral products	1,584	76	162	1,346	515
331	Primary metals	1,148	111	221	816	118
332	Fabricated metal products	4,945	374	798	3,773	817
333	Machinery	3,473	155	531	2,787	354
334	Computer and electronic products	1,791	173	374	1,244	133
335	Electrical equipment, appliances, and components	1,024	118	186	720	89
336	Transportation equipment	1,632	200	285	1,147	146
337	Furniture and related products	1,055	39	132	884	296
339	Miscellaneous	1,537	133	271	1,133	313

Respondent may be counted in more than one column.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 22B. Use of Online Management of Customers' Inventory in 2000
by Employment for Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Associated Employment Totals¹	7,493,853	992,062	1,588,719	4,913,072	540,031
311	Food Products	729,687	78,246	123,067	528,374	76,641
312	Beverage and tobacco	85,605	19,614	10,500	55,491	4,811
313	Textile mills	185,203	20,907	40,358	123,938	18,429
314	Textile product mills	82,844	12,794	18,293	51,757	8,585
315	Apparel	149,067	25,112	28,976	94,979	21,575
316	Leather and allied products	30,799	4,537	4,640	21,622	3,395
321	Wood products	235,915	9,069	40,307	186,539	37,207
322	Paper	309,180	52,828	84,146	172,206	22,020
323	Printing and related support activities	247,268	42,265	61,528	143,475	12,317
324	Petroleum and coal products	61,311	3,529	6,873	50,909	4,960
325	Chemicals	459,669	68,275	131,343	260,051	24,675
326	Plastics and rubber products	472,418	61,337	101,218	309,863	33,359
327	Nonmetallic mineral products	214,265	19,857	27,766	166,642	25,580
331	Primary metals	355,186	59,614	77,352	218,220	15,170
332	Fabricated metal products	655,175	67,056	138,729	449,390	47,571
333	Machinery	674,089	53,818	152,076	468,195	38,569
334	Computer and electronic products	656,852	112,548	172,481	371,823	25,776
335	Electrical equipment, appliances, and components	323,530	64,437	71,752	187,341	13,986
336	Transportation equipment	1,037,454	166,721	202,204	668,529	53,850
337	Furniture and related products	241,362	15,157	31,888	194,317	34,743
339	Miscellaneous	286,974	34,341	63,222	189,411	16,812

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 22C. Use of Online Management of Customers' Inventory in 2000
by Number of Responding Manufacturing Plants by Size Class**

Employment Size Class¹	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
Plant Count Totals	33,471	2,840	5,800	24,831	5,514
Plants with-					
1-4 employees	307	12	17	278	258
5-9 employees	711	20	58	633	532
10-19 employees	2,090	77	246	1,767	928
20-49 employees	5,753	320	753	4,680	1,449
50-99 employees	6,464	418	999	5,047	974
100-249 employees	9,640	852	1,882	6,906	795
250-499 employees	4,797	589	1,016	3,192	292
500-999 employees	2,325	341	519	1,465	130
1,000-2,499 employees	824	139	197	488	41
2,500 employees or more	189	40	43	106	8
Employment unknown	371	32	70	269	107

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 23A. Use of Online Customer Support in 2000
by Number of Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Plant Count Totals	33,724	7,474	10,948	15,302	5,261
311	Food Products	2,891	371	825	1,695	539
312	Beverage and tobacco	363	52	84	227	47
313	Textile mills	656	117	208	331	110
314	Textile product mills	397	95	133	169	95
315	Apparel	675	141	175	359	230
316	Leather and allied products	141	26	41	74	38
321	Wood products	1,622	215	425	982	520
322	Paper	1,488	317	497	674	139
323	Printing and related support activities	1,884	558	614	712	245
324	Petroleum and coal products	423	68	106	249	154
325	Chemicals	2,418	537	794	1,087	221
326	Plastics and rubber products	2,431	532	821	1,078	288
327	Nonmetallic mineral products	1,596	242	449	905	503
331	Primary metals	1,156	242	402	512	110
332	Fabricated metal products	4,978	1,006	1,621	2,351	784
333	Machinery	3,498	868	1,324	1,306	329
334	Computer and electronic products	1,815	697	647	471	109
335	Electrical equipment, appliances, and components	1,034	315	335	384	79
336	Transportation equipment	1,647	490	501	656	131
337	Furniture and related products	1,067	203	384	480	284
339	Miscellaneous	1,544	382	562	600	306

Respondent may be counted in more than one column.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 23B. Use of Online Customer Support in 2000
by Employment for Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Associated Employment Totals¹	7,548,499	2,083,413	2,614,231	2,850,855	485,385
311	Food Products	733,071	119,371	206,751	406,949	73,257
312	Beverage and tobacco	85,508	16,241	24,003	45,264	4,908
313	Textile mills	185,974	39,993	62,750	83,231	17,658
314	Textile product mills	83,865	24,590	30,153	29,122	7,564
315	Apparel	149,688	37,068	35,250	77,370	20,954
316	Leather and allied products	30,819	6,805	9,729	14,285	3,375
321	Wood products	236,487	36,346	78,712	121,429	36,635
322	Paper	310,529	80,917	109,044	120,568	20,671
323	Printing and related support activities	247,893	83,351	86,492	78,050	11,692
324	Petroleum and coal products	61,933	9,735	17,651	34,547	4,338
325	Chemicals	462,328	123,796	177,909	160,623	22,016
326	Plastics and rubber products	477,805	117,048	159,131	201,626	27,972
327	Nonmetallic mineral products	216,043	42,119	71,327	102,597	23,802
331	Primary metals	358,549	95,843	140,407	122,299	11,807
332	Fabricated metal products	659,091	148,886	252,842	257,363	43,655
333	Machinery	689,055	217,956	279,171	191,928	23,603
334	Computer and electronic products	661,750	291,449	250,730	119,571	20,878
335	Electrical equipment, appliances, and components	324,390	120,913	102,876	100,601	13,126
336	Transportation equipment	1,043,937	321,069	312,890	409,978	47,367
337	Furniture and related products	244,176	64,788	92,499	86,889	31,929
339	Miscellaneous	285,608	85,129	113,914	86,565	18,178

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 23C. Use of Online Customer Support
by Number of Responding Manufacturing Plants by Size Class**

Employment Size Class¹	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
Plant Count Totals	33,724	7,474	10,948	15,302	5,261
Plants with-					
1-4 employees	308	38	58	212	257
5-9 employees	723	112	167	444	520
10-19 employees	2,102	371	528	1,203	916
20-49 employees	5,803	1,179	1,665	2,959	1,399
50-99 employees	6,520	1,311	2,123	3,086	918
100-249 employees	9,709	2,130	3,333	4,246	726
250-499 employees	4,824	1,222	1,748	1,854	265
500-999 employees	2,336	677	824	835	119
1,000-2,499 employees	830	291	279	260	35
2,500 employees or more	192	66	68	58	5
Employment unknown	377	77	155	145	101

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

Table 24A. Use of Integrated CAD/CAE (Computer Aided Design/Computer Aided Engineering) in 2000 by Number of Responding Manufacturing Plants by Subsector

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Plant Count Totals	33,932	15,352	3,256	15,324	5,053
311	Food Products	2,904	824	201	1,879	526
312	Beverage and tobacco	364	98	26	240	46
313	Textile mills	658	156	51	451	108
314	Textile product mills	391	111	39	241	101
315	Apparel	677	216	58	403	228
316	Leather and allied products	143	44	7	92	36
321	Wood products	1,628	517	133	978	514
322	Paper	1,500	687	129	684	127
323	Printing and related support activities	1,882	330	112	1,440	247
324	Petroleum and coal products	425	137	25	263	152
325	Chemicals	2,429	870	164	1,395	210
326	Plastics and rubber products	2,440	1,117	268	1,055	279
327	Nonmetallic mineral products	1,605	535	127	943	494
331	Primary metals	1,163	541	128	494	103
332	Fabricated metal products	5,017	2,624	602	1,791	745
333	Machinery	3,543	2,438	379	726	284
334	Computer and electronic products	1,824	1,157	221	446	100
335	Electrical equipment, appliances, and components	1,037	644	93	300	76
336	Transportation equipment	1,660	1,102	182	376	118
337	Furniture and related products	1,075	533	153	389	276
339	Miscellaneous	1,567	671	158	738	283

Respondent may be counted in more than one column.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

Table 24B. Use of Integrated CAD/CAE (Computer Aided Design/Computer Aided Engineering) in 2000 by Employment for Responding Manufacturing Plants by Subsector

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Associated Employment Totals¹	7,609,427	4,623,177	725,537	2,260,713	424,457
311	Food Products	740,601	303,019	53,590	383,992	65,727
312	Beverage and tobacco	85,700	38,020	4,719	42,961	4,716
313	Textile mills	187,631	59,251	17,195	111,185	16,001
314	Textile product mills	82,383	34,903	8,569	38,911	9,046
315	Apparel	151,435	62,456	13,229	75,750	19,207
316	Leather and allied products	31,154	12,846	1,591	16,717	3,040
321	Wood products	238,419	111,234	17,076	110,109	34,703
322	Paper	316,735	170,953	28,317	117,465	14,465
323	Printing and related support activities	247,958	70,851	13,847	163,260	11,627
324	Petroleum and coal products	62,108	43,269	4,532	14,307	4,163
325	Chemicals	462,838	251,336	49,398	162,104	21,506
326	Plastics and rubber products	483,967	271,664	49,296	163,007	21,810
327	Nonmetallic mineral products	218,025	114,934	18,621	84,470	21,820
331	Primary metals	353,809	222,114	40,626	91,069	16,547
332	Fabricated metal products	665,899	409,573	84,080	172,246	36,847
333	Machinery	692,152	530,481	66,251	95,420	20,506
334	Computer and electronic products	660,460	506,857	62,004	91,599	22,168
335	Electrical equipment, appliances, and components	329,101	242,444	23,897	62,760	8,415
336	Transportation equipment	1,061,558	842,006	105,423	114,129	29,746
337	Furniture and related products	246,316	149,240	35,097	61,979	29,789
339	Miscellaneous	291,178	175,726	28,179	87,273	12,608

Respondent may be counted in more than one column.

Note: Detail may not add due to independent rounding.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

Table 24C. Use of Integrated CAD/CAE (Computer Aided Design/Computer Aided Engineering) in 2000 by Number of Responding Manufacturing Plants by Size Class

Employment Size Class ¹	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
Plant Count Totals	33,932	15,352	3,256	15,324	5,053
Plants with-					
1-4 employees	315	52	20	243	250
5-9 employees	716	139	57	520	527
10-19 employees	2,104	539	167	1,398	914
20-49 employees	5,819	1,928	532	3,359	1,383
50-99 employees	6,560	2,686	644	3,230	878
100-249 employees	9,770	4,773	1,013	3,984	665
250-499 employees	4,875	2,795	468	1,612	214
500-999 employees	2,362	1,515	235	612	93
1,000-2,499 employees	844	610	66	168	21
2,500 employees or more	189	158	16	15	8
Employment unknown	378	157	38	183	100

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 25A. Use of Computer Networks in the Design of the Production Process in 2000
by Number of Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Plant Count Totals	33,632	10,233	4,340	19,059	5,353
311	Food Products	2,896	635	298	1,963	534
312	Beverage and tobacco	360	73	31	256	50
313	Textile mills	647	112	68	467	119
314	Textile product mills	395	86	48	261	97
315	Apparel	673	143	80	450	232
316	Leather and allied products	142	29	12	101	37
321	Wood products	1,620	334	157	1,129	522
322	Paper	1,476	393	152	931	151
323	Printing and related support activities	1,873	337	245	1,291	256
324	Petroleum and coal products	424	116	45	263	153
325	Chemicals	2,414	730	222	1,462	225
326	Plastics and rubber products	2,406	676	345	1,385	313
327	Nonmetallic mineral products	1,586	348	148	1,090	513
331	Primary metals	1,158	353	148	657	108
332	Fabricated metal products	4,963	1,618	730	2,615	799
333	Machinery	3,507	1,482	524	1,501	320
334	Computer and electronic products	1,810	763	300	747	114
335	Electrical equipment, appliances, and components	1,026	427	160	439	87
336	Transportation equipment	1,644	791	248	605	134
337	Furniture and related products	1,061	320	166	575	290
339	Miscellaneous	1,551	467	213	871	299

Respondent may be counted in more than one column.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 25B. Use of Computer Networks in the Design of the Production Process in 2000
by Employment for Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Associated Employment Totals¹	7,537,898	3,401,413	1,017,990	3,118,495	495,986
311	Food Products	736,346	253,327	73,335	409,684	69,982
312	Beverage and tobacco	83,828	24,710	10,401	48,717	6,588
313	Textile mills	183,691	40,049	16,414	127,228	19,941
314	Textile product mills	83,031	26,962	11,370	44,699	8,398
315	Apparel	150,664	45,582	20,087	84,995	19,978
316	Leather and allied products	30,854	8,240	3,731	18,883	3,340
321	Wood products	238,585	69,578	25,888	143,119	34,537
322	Paper	309,849	105,141	36,653	168,055	21,351
323	Printing and related support activities	246,905	63,797	37,896	145,212	12,680
324	Petroleum and coal products	62,072	36,192	7,971	17,909	4,199
325	Chemicals	462,199	219,907	68,294	173,998	22,145
326	Plastics and rubber products	474,916	176,525	68,951	229,440	30,861
327	Nonmetallic mineral products	215,852	75,220	23,309	117,323	23,993
331	Primary metals	358,721	143,227	48,067	167,427	11,635
332	Fabricated metal products	654,741	271,641	102,931	280,169	48,005
333	Machinery	684,313	358,583	99,194	226,536	28,345
334	Computer and electronic products	655,620	377,703	96,749	181,168	27,008
335	Electrical equipment, appliances, and components	323,784	174,509	51,886	97,389	13,732
336	Transportation equipment	1,051,115	697,702	137,284	216,129	40,189
337	Furniture and related products	243,550	101,610	35,877	106,063	32,555
339	Miscellaneous	287,262	131,208	41,702	114,352	16,524

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 25C. Use of Computer Networks in the Design of the Production Process in 2000
by Number of Responding Manufacturing Plants by Size Class**

Employment Size Class¹	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
Plant Count Totals	33,632	10,233	4,340	19,059	5,353
Plants with-					
1-4 employees	312	36	23	253	253
5-9 employees	715	94	63	558	528
10-19 employees	2,094	332	224	1,538	924
20-49 employees	5,775	1,150	690	3,935	1,427
50-99 employees	6,497	1,676	837	3,984	941
100-249 employees	9,682	3,173	1,329	5,180	753
250-499 employees	4,824	1,971	647	2,206	265
500-999 employees	2,337	1,100	333	904	118
1,000-2,499 employees	836	469	119	248	29
2,500 employees or more	187	131	18	38	10
Employment unknown	373	101	57	215	105

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 26A. Use of Computer Networks in Production Scheduling in 2000
by Number of Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Plant Count Totals	33,921	14,317	6,419	13,185	5,064
311	Food Products	2,923	1,092	486	1,345	507
312	Beverage and tobacco	368	141	54	173	42
313	Textile mills	657	287	140	230	109
314	Textile product mills	396	147	64	185	96
315	Apparel	675	267	119	289	230
316	Leather and allied products	144	60	15	69	35
321	Wood products	1,635	450	267	918	507
322	Paper	1,503	666	306	531	124
323	Printing and related support activities	1,883	525	490	868	246
324	Petroleum and coal products	427	171	59	197	150
325	Chemicals	2,436	1,125	421	890	203
326	Plastics and rubber products	2,437	1,049	517	871	282
327	Nonmetallic mineral products	1,602	531	265	806	497
331	Primary metals	1,160	541	242	377	106
332	Fabricated metal products	5,006	2,064	1,021	1,921	756
333	Machinery	3,524	1,672	662	1,190	303
334	Computer and electronic products	1,823	1,011	331	481	101
335	Electrical equipment, appliances, and components	1,036	587	173	276	77
336	Transportation equipment	1,659	928	288	443	119
337	Furniture and related products	1,069	413	219	437	282
339	Miscellaneous	1,558	590	280	688	292

Respondent may be counted in more than one column.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 26B. Use of Computer Networks in Production Scheduling in 2000
by Employment for Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Associated Employment Totals¹	7,611,534	4,442,578	1,328,716	1,840,240	422,350
311	Food Products	745,849	364,677	122,113	259,059	60,479
312	Beverage and tobacco	86,549	50,379	10,503	25,667	3,867
313	Textile mills	185,262	89,551	40,698	55,013	18,370
314	Textile product mills	82,266	41,742	16,070	24,454	9,163
315	Apparel	150,747	78,610	27,917	44,220	19,895
316	Leather and allied products	31,056	14,562	3,570	12,924	3,138
321	Wood products	241,052	90,929	41,874	108,249	32,070
322	Paper	316,458	179,690	58,159	78,609	14,742
323	Printing and related support activities	249,164	104,483	66,373	78,308	10,421
324	Petroleum and coal products	62,115	41,803	9,153	11,159	4,156
325	Chemicals	462,715	282,972	84,606	95,137	21,629
326	Plastics and rubber products	482,176	257,716	97,480	126,980	23,601
327	Nonmetallic mineral products	218,154	105,840	39,497	72,817	21,691
331	Primary metals	358,859	220,447	67,932	70,480	11,497
332	Fabricated metal products	664,930	347,233	134,262	183,435	37,816
333	Machinery	690,275	439,796	111,504	138,975	22,383
334	Computer and electronic products	664,317	457,856	110,775	95,686	18,311
335	Electrical equipment, appliances, and components	328,251	227,259	39,541	61,451	9,265
336	Transportation equipment	1,053,953	753,318	149,319	151,316	37,351
337	Furniture and related products	246,718	129,537	47,372	69,809	29,387
339	Miscellaneous	290,668	164,178	49,998	76,492	13,118

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 26C. Use of Computer Networks in Production Scheduling in 2000
by Number of Responding Manufacturing Plants by Size Class**

Employment Size Class¹	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
Plant Count Totals	33,921	14,317	6,419	13,185	5,064
Plants with-					
1-4 employees	312	53	40	219	253
5-9 employees	715	117	103	495	528
10-19 employees	2,100	428	326	1,346	918
20-49 employees	5,817	1,570	1,122	3,125	1,385
50-99 employees	6,548	2,480	1,311	2,757	890
100-249 employees	9,781	4,606	2,005	3,170	654
250-499 employees	4,878	2,709	880	1,289	211
500-999 employees	2,361	1,468	402	491	94
1,000-2,499 employees	843	594	123	126	22
2,500 employees or more	190	151	22	17	7
Employment unknown	376	141	85	150	102

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 27A. Use of Computer Networks in Production Monitoring in 2000
by Number of Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Plant Count Totals	33,846	13,203	6,890	13,753	5,139
311	Food Products	2,918	1,029	527	1,362	512
312	Beverage and tobacco	367	131	58	178	43
313	Textile mills	662	300	135	227	104
314	Textile product mills	396	132	71	193	96
315	Apparel	674	256	119	299	231
316	Leather and allied products	144	52	18	74	35
321	Wood products	1,621	417	286	918	521
322	Paper	1,509	647	324	538	118
323	Printing and related support activities	1,892	527	483	882	237
324	Petroleum and coal products	424	176	67	181	153
325	Chemicals	2,446	1,114	437	895	193
326	Plastics and rubber products	2,427	949	554	924	292
327	Nonmetallic mineral products	1,599	537	259	803	500
331	Primary metals	1,160	533	251	376	106
332	Fabricated metal products	4,982	1,860	1,099	2,023	780
333	Machinery	3,511	1,432	760	1,319	316
334	Computer and electronic products	1,817	917	361	539	107
335	Electrical equipment, appliances, and components	1,032	508	209	315	81
336	Transportation equipment	1,651	808	330	513	127
337	Furniture and related products	1,069	344	235	490	282
339	Miscellaneous	1,545	534	307	704	305

Respondent may be counted in more than one column.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 27B. Use of Computer Networks in Production Monitoring in 2000
by Employment for Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Associated Employment Totals¹	7,606,627	4,138,243	1,461,726	2,006,658	427,257
311	Food Products	742,932	315,306	156,676	270,950	63,396
312	Beverage and tobacco	85,999	47,002	11,435	27,562	4,417
313	Textile mills	186,045	95,205	37,543	53,297	17,587
314	Textile product mills	82,094	37,774	17,429	26,891	9,335
315	Apparel	151,603	79,791	25,872	45,940	19,039
316	Leather and allied products	31,056	12,914	5,365	12,777	3,138
321	Wood products	239,435	81,888	49,522	108,025	33,687
322	Paper	318,532	176,201	58,765	83,566	12,668
323	Printing and related support activities	249,059	104,002	64,830	80,227	10,526
324	Petroleum and coal products	62,024	43,505	7,531	10,988	4,247
325	Chemicals	465,705	277,486	90,355	97,864	18,639
326	Plastics and rubber products	479,951	240,713	103,529	135,709	25,826
327	Nonmetallic mineral products	218,102	108,882	37,228	71,992	21,743
331	Primary metals	358,393	225,083	63,807	69,503	11,963
332	Fabricated metal products	662,120	312,308	152,301	197,511	40,626
333	Machinery	686,534	383,485	134,123	168,926	26,124
334	Computer and electronic products	664,599	437,807	114,815	111,977	18,029
335	Electrical equipment, appliances, and components	327,650	204,473	54,260	68,917	9,866
336	Transportation equipment	1,053,592	691,497	165,097	196,998	37,712
337	Furniture and related products	252,718	117,552	53,041	82,125	23,387
339	Miscellaneous	288,484	145,369	58,202	84,913	15,302

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 27C. Use of Computer Networks in Production Monitoring in 2000
by Number of Responding Manufacturing Plants by Size Class**

Employment Size Class¹	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
Plant Count Totals	33,846	13,203	6,890	13,753	5,139
Plants with-					
1-4 employees	307	58	40	209	258
5-9 employees	709	106	99	504	534
10-19 employees	2,097	384	337	1,376	921
20-49 employees	5,799	1,447	1,148	3,204	1,403
50-99 employees	6,543	2,296	1,373	2,874	895
100-249 employees	9,764	4,268	2,178	3,318	671
250-499 employees	4,862	2,460	992	1,410	227
500-999 employees	2,359	1,354	473	532	96
1,000-2,499 employees	839	559	135	145	26
2,500 employees or more	192	146	23	23	5
Employment unknown	375	125	92	158	103

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 28A. Use of Computer Networks in the Test and Acceptance of Product in 2000
by Number of Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Plant Count Totals	33,554	7,762	4,911	20,881	5,431
311	Food Products	2,890	614	381	1,895	540
312	Beverage and tobacco	363	81	39	243	47
313	Textile mills	653	148	101	404	113
314	Textile product mills	392	62	55	275	100
315	Apparel	663	94	76	493	242
316	Leather and allied products	142	18	13	111	37
321	Wood products	1,612	175	128	1,309	530
322	Paper	1,470	301	223	946	157
323	Printing and related support activities	1,861	197	209	1,455	268
324	Petroleum and coal products	424	132	57	235	153
325	Chemicals	2,422	884	355	1,183	217
326	Plastics and rubber products	2,404	535	427	1,442	315
327	Nonmetallic mineral products	1,586	276	181	1,129	513
331	Primary metals	1,158	359	210	589	108
332	Fabricated metal products	4,945	959	749	3,237	817
333	Machinery	3,487	863	580	2,044	340
334	Computer and electronic products	1,814	765	299	750	110
335	Electrical equipment, appliances, and components	1,031	366	184	481	82
336	Transportation equipment	1,643	541	291	811	135
337	Furniture and related products	1,051	105	129	817	300
339	Miscellaneous	1,543	287	224	1,032	307

Respondent may be counted in more than one column.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 28B. Use of Computer Networks in the Test and Acceptance of Product in 2000
by Employment for Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Associated Employment Totals¹	7,541,565	2,844,339	1,212,604	3,484,622	492,319
311	Food Products	730,901	187,657	113,400	429,844	75,427
312	Beverage and tobacco	85,065	33,557	10,530	40,978	5,351
313	Textile mills	186,150	52,016	30,371	103,763	17,482
314	Textile product mills	82,592	19,227	15,292	48,073	8,837
315	Apparel	148,989	30,557	21,914	96,518	21,653
316	Leather and allied products	30,854	5,258	4,653	20,943	3,340
321	Wood products	238,612	36,587	26,187	175,838	34,510
322	Paper	310,556	103,142	48,611	158,803	20,644
323	Printing and related support activities	243,879	43,960	32,105	167,814	15,706
324	Petroleum and coal products	61,955	37,648	6,097	18,210	4,316
325	Chemicals	464,257	231,685	88,072	144,500	20,087
326	Plastics and rubber products	475,463	144,694	87,657	243,112	30,314
327	Nonmetallic mineral products	214,011	64,736	26,351	122,924	25,834
331	Primary metals	358,067	169,116	66,996	121,955	12,289
332	Fabricated metal products	656,569	185,261	113,032	358,276	46,177
333	Machinery	682,566	282,969	109,984	289,613	30,092
334	Computer and electronic products	659,272	392,096	98,498	168,678	23,356
335	Electrical equipment, appliances, and components	327,114	165,206	56,486	105,422	10,402
336	Transportation equipment	1,049,176	515,770	168,391	365,015	42,128
337	Furniture and related products	247,444	46,197	36,997	164,250	28,661
339	Miscellaneous	288,073	97,000	50,980	140,093	15,713

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

Table 28C. Use of Computer Networks in the Test and Acceptance of Product in 2000 by Number of Responding Manufacturing Plants by Size Class

Employment Size Class ¹	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
Plant Count Totals	33,554	7,762	4,911	20,881	5,431
Plants with-					
1-4 employees	306	29	30	247	259
5-9 employees	705	57	70	578	538
10-19 employees	2,081	216	217	1,648	937
20-49 employees	5,752	715	730	4,307	1,450
50-99 employees	6,495	1,181	924	4,390	943
100-249 employees	9,660	2,396	1,535	5,729	775
250-499 employees	4,820	1,582	777	2,461	269
500-999 employees	2,340	951	395	994	115
1,000-2,499 employees	832	429	138	265	33
2,500 employees or more	190	117	29	44	7
Employment unknown	373	89	66	218	105

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

Table 29A. Use of Computer Networks in the Outsourcing of Research and Development in 2000 by Number of Responding Manufacturing Plants by Subsector

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Plant Count Totals	33,486	3,308	3,183	26,995	5,499
311	Food Products	2,893	211	235	2,447	537
312	Beverage and tobacco	362	17	22	323	48
313	Textile mills	652	29	53	570	114
314	Textile product mills	393	33	36	324	99
315	Apparel	667	67	65	535	238
316	Leather and allied products	143	9	11	123	36
321	Wood products	1,624	102	120	1,402	518
322	Paper	1,469	118	121	1,230	158
323	Printing and related support activities	1,854	117	151	1,586	275
324	Petroleum and coal products	428	45	45	338	149
325	Chemicals	2,401	219	193	1,989	238
326	Plastics and rubber products	2,403	249	246	1,908	316
327	Nonmetallic mineral products	1,593	123	123	1,347	506
331	Primary metals	1,150	113	103	934	116
332	Fabricated metal products	4,933	464	507	3,962	829
333	Machinery	3,473	444	381	2,648	354
334	Computer and electronic products	1,801	322	227	1,252	123
335	Electrical equipment, appliances, and components	1,013	145	97	771	100
336	Transportation equipment	1,640	233	174	1,233	138
337	Furniture and related products	1,052	97	97	858	299
339	Miscellaneous	1,542	151	176	1,215	308

Respondent may be counted in more than one column.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

Table 29B. Use of Computer Networks in the Outsourcing of Research and Development in 2000 by Employment for Responding Manufacturing Plants by Subsector

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Associated Employment Totals¹	7,467,994	995,639	696,293	5,776,062	565,890
311	Food Products	734,931	73,858	54,830	606,243	71,397
312	Beverage and tobacco	84,539	4,384	3,621	76,534	5,877
313	Textile mills	184,984	8,174	12,419	164,391	18,648
314	Textile product mills	81,545	8,001	6,939	66,605	9,884
315	Apparel	148,725	19,475	16,389	112,861	21,917
316	Leather and allied products	30,622	1,001	3,411	26,210	3,572
321	Wood products	239,808	17,514	21,889	200,405	33,314
322	Paper	308,184	29,648	22,596	255,940	23,016
323	Printing and related support activities	243,762	21,530	15,301	206,931	15,823
324	Petroleum and coal products	60,921	9,140	4,629	47,152	5,350
325	Chemicals	456,748	54,400	48,122	354,226	27,596
326	Plastics and rubber products	471,589	62,535	39,219	369,835	34,188
327	Nonmetallic mineral products	213,202	26,575	17,734	168,893	26,643
331	Primary metals	356,270	46,018	34,367	275,885	14,086
332	Fabricated metal products	654,165	84,035	66,404	503,726	48,581
333	Machinery	670,590	98,234	70,353	502,003	42,068
334	Computer and electronic products	644,849	144,555	81,734	418,560	37,779
335	Electrical equipment, appliances, and components	319,566	52,749	31,518	235,299	17,950
336	Transportation equipment	1,029,968	162,947	97,409	769,612	61,336
337	Furniture and related products	247,271	33,796	20,059	193,416	28,834
339	Miscellaneous	285,755	37,070	27,350	221,335	18,031

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 29C. Use of Computer Networks in the Outsourcing of Research and Development in 2000
by Number of Responding Manufacturing Plants by Size Class**

Employment Size Class¹	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
Plant Count Totals	33,486	3,308	3,183	26,995	5,499
Plants with-					
1-4 employees	314	17	30	267	251
5-9 employees	704	48	62	594	539
10-19 employees	2,098	140	200	1,758	920
20-49 employees	5,766	426	566	4,774	1,436
50-99 employees	6,472	575	660	5,237	966
100-249 employees	9,628	975	898	7,755	807
250-499 employees	4,795	596	431	3,768	294
500-999 employees	2,326	325	200	1,801	129
1,000-2,499 employees	824	136	80	608	41
2,500 employees or more	185	37	18	130	12
Employment unknown	374	33	38	303	104

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 30A. Use of Computer Networks for Order Fulfillment in 2000
by Number of Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Plant Count Totals	33,740	12,346	8,351	13,043	5,245
311	Food Products	2,907	1,065	693	1,149	523
312	Beverage and tobacco	369	151	67	151	41
313	Textile mills	661	236	158	267	105
314	Textile product mills	393	150	98	145	99
315	Apparel	676	256	136	284	229
316	Leather and allied products	144	48	28	68	35
321	Wood products	1,621	414	339	868	521
322	Paper	1,490	570	390	530	137
323	Printing and related support activities	1,884	551	554	779	245
324	Petroleum and coal products	427	157	77	193	150
325	Chemicals	2,435	1,139	563	733	204
326	Plastics and rubber products	2,420	941	634	845	299
327	Nonmetallic mineral products	1,596	493	341	762	503
331	Primary metals	1,150	432	299	419	116
332	Fabricated metal products	4,959	1,623	1,200	2,136	803
333	Machinery	3,504	1,208	934	1,362	323
334	Computer and electronic products	1,809	803	504	502	115
335	Electrical equipment, appliances, and components	1,037	496	243	298	76
336	Transportation equipment	1,645	751	392	502	133
337	Furniture and related products	1,057	311	269	477	294
339	Miscellaneous	1,556	551	432	573	294

Respondent may be counted in more than one column.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 30B. Use of Computer Networks for Order Fulfillment in 2000
by Employment for Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Associated Employment Totals¹	7,608,939	3,806,633	1,877,050	1,898,569	424,945
311	Food Products	740,113	353,552	155,371	231,190	66,215
312	Beverage and tobacco	85,700	49,831	14,689	21,233	4,716
313	Textile mills	187,631	80,010	42,378	64,418	16,001
314	Textile product mills	82,383	42,416	18,905	21,480	9,046
315	Apparel	151,435	73,427	28,560	48,314	19,207
316	Leather and allied products	31,154	13,325	6,635	11,006	3,040
321	Wood products	238,419	76,524	59,955	101,894	34,703
322	Paper	316,735	164,455	77,651	73,562	14,465
323	Printing and related support activities	247,958	101,321	71,771	75,316	11,627
324	Petroleum and coal products	62,108	29,703	17,896	14,641	4,163
325	Chemicals	462,838	265,687	121,510	77,320	21,506
326	Plastics and rubber products	483,967	231,145	117,799	133,782	21,810
327	Nonmetallic mineral products	218,025	87,552	55,269	74,328	21,820
331	Primary metals	353,809	185,131	87,756	85,251	16,547
332	Fabricated metal products	665,899	278,516	169,929	211,827	36,847
333	Machinery	692,152	348,418	187,991	148,881	20,506
334	Computer and electronic products	660,460	383,220	172,803	107,900	22,168
335	Electrical equipment, appliances, and components	329,101	196,833	70,079	59,008	8,415
336	Transportation equipment	1,061,558	597,195	248,104	203,099	29,746
337	Furniture and related products	246,316	101,048	69,407	73,800	29,789
339	Miscellaneous	291,178	147,324	82,592	60,319	12,608

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 30C. Use of Computer Networks for Order Fulfillment in 2000
by Number of Responding Manufacturing Plants by Size Class**

Employment Size Class¹	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
Plant Count Totals	33,740	12,346	8,351	13,043	5,245
Plants with-					
1-4 employees	311	53	53	205	254
5-9 employees	715	120	126	469	528
10-19 employees	2,098	421	417	1,260	920
20-49 employees	5,771	1,472	1,329	2,970	1,431
50-99 employees	6,521	2,070	1,672	2,779	917
100-249 employees	9,701	3,880	2,536	3,285	734
250-499 employees	4,852	2,290	1,295	1,267	237
500-999 employees	2,364	1,272	590	502	91
1,000-2,499 employees	842	511	192	139	23
2,500 employees or more	188	127	38	23	9
Employment unknown	377	130	103	144	101

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 31A. Use of Computer Networks for Order Tracking in 2000
by Number of Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Plant Count Totals	33,955	14,150	8,711	11,094	5,030
311	Food Products	2,928	1,113	724	1,091	502
312	Beverage and tobacco	371	160	71	140	39
313	Textile mills	662	252	170	240	104
314	Textile product mills	401	181	97	123	91
315	Apparel	681	306	140	235	224
316	Leather and allied products	142	60	31	51	37
321	Wood products	1,625	468	348	809	517
322	Paper	1,506	657	415	434	121
323	Printing and related support activities	1,895	686	605	604	234
324	Petroleum and coal products	431	162	76	193	146
325	Chemicals	2,446	1,236	559	651	193
326	Plastics and rubber products	2,440	1,036	693	711	279
327	Nonmetallic mineral products	1,608	568	365	675	491
331	Primary metals	1,164	469	323	372	102
332	Fabricated metal products	4,993	1,910	1,296	1,787	769
333	Machinery	3,519	1,478	951	1,090	308
334	Computer and electronic products	1,823	943	505	375	101
335	Electrical equipment, appliances, and components	1,038	563	245	230	75
336	Transportation equipment	1,656	819	409	428	122
337	Furniture and related products	1,064	408	286	370	287
339	Miscellaneous	1,562	675	402	485	288

Respondent may be counted in more than one column.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 31B. Use of Computer Networks for Order Tracking in 2000
by Employment for Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Associated Employment Totals¹	7,621,242	4,098,100	1,956,982	1,566,160	412,642
311	Food Products	746,625	355,171	166,788	224,666	59,703
312	Beverage and tobacco	86,499	51,290	14,511	20,698	3,917
313	Textile mills	187,413	82,394	49,107	55,912	16,219
314	Textile product mills	84,065	48,169	19,592	16,304	7,364
315	Apparel	150,597	86,057	25,541	38,999	20,045
316	Leather and allied products	30,730	14,506	7,422	8,802	3,464
321	Wood products	238,695	83,677	62,060	92,958	34,427
322	Paper	317,259	177,017	84,345	55,897	13,941
323	Printing and related support activities	249,025	123,311	77,629	48,085	10,560
324	Petroleum and coal products	62,267	30,688	16,365	15,214	4,004
325	Chemicals	466,483	282,520	120,888	63,075	17,861
326	Plastics and rubber products	483,736	243,438	128,907	111,391	22,041
327	Nonmetallic mineral products	218,300	92,860	61,914	63,526	21,545
331	Primary metals	359,447	193,715	95,381	70,351	10,909
332	Fabricated metal products	663,604	309,061	183,646	170,897	39,142
333	Machinery	687,836	370,240	198,279	119,317	24,822
334	Computer and electronic products	666,361	410,812	176,544	79,005	16,267
335	Electrical equipment, appliances, and components	325,586	209,058	70,994	45,534	11,930
336	Transportation equipment	1,054,258	633,165	253,960	167,133	37,046
337	Furniture and related products	250,843	133,507	67,625	49,711	25,262
339	Miscellaneous	291,613	167,444	75,484	48,685	12,173

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 31C. Use of Computer Networks for Order Tracking in 2000
by Number of Responding Manufacturing Plants by Size Class**

Employment Size Class¹	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
Plant Count Totals	33,955	14,150	8,711	11,094	5,030
Plants with-					
1-4 employees	314	60	60	194	251
5-9 employees	717	159	137	421	526
10-19 employees	2,120	550	424	1,146	898
20-49 employees	5,828	1,873	1,397	2,558	1,374
50-99 employees	6,562	2,460	1,744	2,358	876
100-249 employees	9,769	4,410	2,670	2,689	666
250-499 employees	4,868	2,491	1,324	1,053	221
500-999 employees	2,362	1,325	604	433	93
1,000-2,499 employees	843	539	200	104	22
2,500 employees or more	192	134	39	19	5
Employment unknown	380	149	112	119	98

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

Table 32A. Use of Computer Networks for Transportation and Shipping Logistics in 2000 by Number of Responding Manufacturing Plants by Subsector

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Plant Count Totals	33,813	12,897	8,165	12,751	5,172
311	Food Products	2,905	1,063	695	1,147	525
312	Beverage and tobacco	370	152	69	149	40
313	Textile mills	658	239	156	263	108
314	Textile product mills	400	171	98	131	92
315	Apparel	673	293	131	249	232
316	Leather and allied products	146	58	28	60	33
321	Wood products	1,619	402	338	879	523
322	Paper	1,491	591	394	506	136
323	Printing and related support activities	1,884	650	496	738	245
324	Petroleum and coal products	425	158	73	194	152
325	Chemicals	2,433	1,148	553	732	206
326	Plastics and rubber products	2,426	935	686	805	293
327	Nonmetallic mineral products	1,609	533	323	753	490
331	Primary metals	1,160	425	313	422	106
332	Fabricated metal products	4,969	1,630	1,210	2,129	793
333	Machinery	3,513	1,306	899	1,308	314
334	Computer and electronic products	1,817	862	463	492	107
335	Electrical equipment, appliances, and components	1,040	534	228	278	73
336	Transportation equipment	1,660	761	392	507	118
337	Furniture and related products	1,060	353	260	447	291
339	Miscellaneous	1,555	633	360	562	295

Respondent may be counted in more than one column.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

Table 32B. Use of Computer Networks for Transportation and Shipping Logistics in 2000 by Employment for Responding Manufacturing Plants by Subsector

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Associated Employment Totals¹	7,579,700	3,809,984	1,920,354	1,849,362	454,184
311	Food Products	742,731	356,679	166,107	219,945	63,597
312	Beverage and tobacco	86,203	48,762	15,818	21,623	4,213
313	Textile mills	186,211	83,586	46,291	56,334	17,421
314	Textile product mills	81,955	41,383	22,457	18,115	9,474
315	Apparel	149,229	82,322	27,605	39,302	21,413
316	Leather and allied products	31,214	15,074	6,214	9,926	2,980
321	Wood products	238,783	74,475	56,437	107,871	34,339
322	Paper	314,923	166,264	79,744	68,915	16,277
323	Printing and related support activities	247,766	114,804	68,547	64,415	11,819
324	Petroleum and coal products	61,623	32,004	13,219	16,400	4,648
325	Chemicals	463,670	270,264	120,343	73,063	20,674
326	Plastics and rubber products	481,461	232,376	128,435	120,650	24,316
327	Nonmetallic mineral products	218,024	91,764	54,950	71,310	21,821
331	Primary metals	357,284	177,771	99,169	80,344	13,072
332	Fabricated metal products	661,216	275,503	174,286	211,427	41,530
333	Machinery	682,666	339,999	192,449	150,218	29,992
334	Computer and electronic products	658,440	360,360	175,388	122,692	24,188
335	Electrical equipment, appliances, and components	327,148	192,924	69,228	64,996	10,368
336	Transportation equipment	1,058,213	586,481	271,505	200,227	33,091
337	Furniture and related products	240,897	112,926	63,262	64,709	35,208
339	Miscellaneous	290,043	154,263	68,900	66,880	13,743

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

Table 32C. Use of Computer Networks for Transportation and Shipping Logistics in 2000 by Number of Responding Manufacturing Plants by Size Class

Employment Size Class ¹	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
Plant Count Totals	33,813	12,897	8,165	12,751	5,172
Plants with-					
1-4 employees	309	67	52	190	256
5-9 employees	718	169	119	430	525
10-19 employees	2,112	483	399	1,230	906
20-49 employees	5,809	1,631	1,277	2,901	1,393
50-99 employees	6,544	2,199	1,594	2,751	894
100-249 employees	9,714	3,976	2,536	3,202	721
250-499 employees	4,838	2,335	1,253	1,250	251
500-999 employees	2,364	1,271	583	510	91
1,000-2,499 employees	839	513	204	122	26
2,500 employees or more	190	125	45	20	7
Employment unknown	376	128	103	145	102

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 33A. Use of Automated Warehouses in 2000
by Number of Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Plant Count Totals	33,522	3,840	6,230	23,452	5,463
311	Food Products	2,890	403	625	1,862	540
312	Beverage and tobacco	365	61	69	235	45
313	Textile mills	650	103	81	466	116
314	Textile product mills	391	53	76	262	101
315	Apparel	667	107	112	448	238
316	Leather and allied products	142	11	28	103	37
321	Wood products	1,605	88	208	1,309	537
322	Paper	1,481	248	334	899	146
323	Printing and related support activities	1,868	156	363	1,349	261
324	Petroleum and coal products	425	60	59	306	152
325	Chemicals	2,398	429	464	1,505	241
326	Plastics and rubber products	2,400	273	556	1,571	319
327	Nonmetallic mineral products	1,587	125	225	1,237	512
331	Primary metals	1,157	120	211	826	109
332	Fabricated metal products	4,939	405	807	3,727	823
333	Machinery	3,495	306	554	2,635	332
334	Computer and electronic products	1,800	260	390	1,150	124
335	Electrical equipment, appliances, and components	1,028	165	230	633	85
336	Transportation equipment	1,641	236	343	1,062	137
337	Furniture and related products	1,057	74	190	793	294
339	Miscellaneous	1,536	157	305	1,074	314

Respondent may be counted in more than one column.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 33B. Use of Automated Warehouses in 2000
by Employment for Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Associated Employment Totals¹	7,521,478	1,666,946	1,734,825	4,119,707	512,406
311	Food Products	736,621	168,546	173,678	394,397	69,707
312	Beverage and tobacco	84,963	25,169	19,242	40,552	5,453
313	Textile mills	185,289	39,227	27,781	118,281	18,343
314	Textile product mills	81,197	17,901	18,338	44,958	10,232
315	Apparel	148,126	41,321	31,572	75,233	22,516
316	Leather and allied products	30,768	3,052	9,097	18,619	3,426
321	Wood products	236,762	21,147	39,137	176,478	36,360
322	Paper	312,931	82,988	77,262	152,681	18,269
323	Printing and related support activities	246,290	43,775	58,025	144,490	13,295
324	Petroleum and coal products	61,881	17,597	14,853	29,431	4,390
325	Chemicals	458,769	147,343	120,874	190,552	25,575
326	Plastics and rubber products	476,167	88,329	118,182	269,656	29,610
327	Nonmetallic mineral products	215,067	35,338	44,664	135,065	24,778
331	Primary metals	357,706	66,441	80,639	210,626	12,650
332	Fabricated metal products	654,661	89,382	140,961	424,318	48,085
333	Machinery	683,843	136,838	138,555	408,450	28,815
334	Computer and electronic products	660,446	198,713	174,649	287,084	22,182
335	Electrical equipment, appliances, and components	322,969	85,263	85,581	152,125	14,547
336	Transportation equipment	1,037,153	271,301	223,531	542,321	54,151
337	Furniture and related products	243,386	30,048	62,610	150,728	32,719
339	Miscellaneous	286,483	57,227	75,594	153,662	17,303

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 33C. Use of Automated Warehouses in 2000
by Number of Responding Manufacturing Plants by Size Class**

Employment Size Class¹	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
Plant Count Totals	33,522	3,840	6,230	23,452	5,463
Plants with-					
1-4 employees	307	15	34	258	258
5-9 employees	711	27	64	620	532
10-19 employees	2,094	93	214	1,787	924
20-49 employees	5,750	309	747	4,694	1,452
50-99 employees	6,476	448	1,109	4,919	962
100-249 employees	9,642	1,154	1,985	6,503	793
250-499 employees	4,808	833	1,152	2,823	281
500-999 employees	2,340	553	591	1,196	115
1,000-2,499 employees	834	289	217	328	31
2,500 employees or more	189	76	44	69	8
Employment unknown	371	43	73	255	107

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 34A. Use of E-mail within the Plant
by Number of Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Plant Count Totals	34,342	27,236	2,555	4,551	4,643
311	Food Products	2,982	2,456	185	341	448
312	Beverage and tobacco	372	321	10	41	38
313	Textile mills	671	531	48	92	95
314	Textile product mills	403	294	33	76	89
315	Apparel	690	469	76	145	215
316	Leather and allied products	146	101	16	29	33
321	Wood products	1,659	1,084	160	415	483
322	Paper	1,524	1,336	76	112	103
323	Printing and related support activities	1,905	1,448	157	300	224
324	Petroleum and coal products	427	340	24	63	150
325	Chemicals	2,476	2,227	96	153	163
326	Plastics and rubber products	2,475	2,024	202	249	244
327	Nonmetallic mineral products	1,639	1,130	155	354	460
331	Primary metals	1,166	950	104	112	100
332	Fabricated metal products	5,043	3,673	495	875	719
333	Machinery	3,548	2,847	268	433	279
334	Computer and electronic products	1,841	1,708	70	63	83
335	Electrical equipment, appliances, and components	1,059	948	44	67	54
336	Transportation equipment	1,667	1,485	84	98	111
337	Furniture and related products	1,078	718	125	235	273
339	Miscellaneous	1,571	1,146	127	298	279

Respondent may be counted in more than one column.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 34B. Use of E-mail within the Plant in 2000
by Employment for Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Associated Employment Totals¹	7,699,260	7,096,036	288,097	315,127	334,624
311	Food Products	761,656	692,648	32,964	36,044	44,672
312	Beverage and tobacco	86,595	80,754	839	5,002	3,821
313	Textile mills	190,461	167,209	10,519	12,733	13,171
314	Textile product mills	83,947	75,063	4,173	4,711	7,482
315	Apparel	153,834	127,240	10,844	15,750	16,808
316	Leather and allied products	31,508	26,270	2,092	3,146	2,686
321	Wood products	243,518	190,455	19,270	33,793	29,604
322	Paper	318,197	300,019	9,809	8,369	13,003
323	Printing and related support activities	252,069	233,693	7,673	10,703	7,516
324	Petroleum and coal products	62,252	59,274	528	2,450	4,019
325	Chemicals	474,069	459,532	8,581	5,956	10,275
326	Plastics and rubber products	489,326	447,896	22,105	19,325	16,451
327	Nonmetallic mineral products	221,217	193,490	10,485	17,242	18,628
331	Primary metals	360,149	331,680	16,912	11,557	10,207
332	Fabricated metal products	672,334	581,654	45,802	44,878	30,412
333	Machinery	696,053	650,065	21,630	24,358	16,605
334	Computer and electronic products	668,381	654,536	7,768	6,077	14,247
335	Electrical equipment, appliances, and components	332,063	315,253	10,717	6,093	5,453
336	Transportation equipment	1,062,833	1,037,627	14,516	10,690	28,471
337	Furniture and related products	246,496	208,064	18,625	19,807	29,609
339	Miscellaneous	292,302	263,614	12,245	16,443	11,484

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 34C. Use of E-mail within the Plant in 2000
by Number of Responding Manufacturing Plants by Size Class**

Employment Size Class¹	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
Plant Count Totals	34,342	27,236	2,555	4,551	4,643
Plants with-					
1-4 employees	311	190	23	98	254
5-9 employees	708	311	81	316	535
10-19 employees	2,138	1,074	240	824	880
20-49 employees	5,895	3,737	670	1,488	1,307
50-99 employees	6,647	5,130	615	902	791
100-249 employees	9,894	8,593	624	677	541
250-499 employees	4,932	4,592	197	143	157
500-999 employees	2,393	2,280	63	50	62
1,000-2,499 employees	847	835	(D)	(D)	18
2,500 employees or more	194	193	(D)	(D)	3
Employment unknown	383	301	35	47	95

Respondent may be counted in more than one column.

(D) Withheld to avoid disclosing data of individual companies; data are included in higher level totals.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 35A. Use of E-mail with Vendors or Customers
by Number of Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Plant Count Totals	34,476	29,948	2,236	2,292	4,509
311	Food Products	2,981	2,479	224	278	449
312	Beverage and tobacco	371	327	13	31	39
313	Textile mills	671	549	54	68	95
314	Textile product mills	407	328	35	44	85
315	Apparel	696	558	59	79	209
316	Leather and allied products	147	123	9	15	32
321	Wood products	1,657	1,247	180	230	485
322	Paper	1,524	1,379	69	76	103
323	Printing and related support activities	1,926	1,724	107	95	203
324	Petroleum and coal products	432	347	28	57	145
325	Chemicals	2,478	2,250	115	113	161
326	Plastics and rubber products	2,482	2,170	162	150	237
327	Nonmetallic mineral products	1,641	1,225	179	237	458
331	Primary metals	1,178	1,051	77	50	88
332	Fabricated metal products	5,069	4,392	367	310	693
333	Machinery	3,571	3,263	179	129	256
334	Computer and electronic products	1,845	1,774	39	32	79
335	Electrical equipment, appliances, and components	1,056	997	31	28	57
336	Transportation equipment	1,677	1,554	68	55	101
337	Furniture and related products	1,090	862	123	105	261
339	Miscellaneous	1,577	1,349	118	110	273

Respondent may be counted in more than one column.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 35B. Use of E-mail with Vendors or Customers in 2000
by Employment for Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Associated Employment Totals¹	7,711,271	7,241,506	254,211	215,554	322,613
311	Food Products	759,420	684,437	33,136	41,847	46,908
312	Beverage and tobacco	87,293	83,006	1,371	2,916	3,123
313	Textile mills	189,819	166,230	10,466	13,123	13,813
314	Textile product mills	85,918	75,430	5,652	4,836	5,511
315	Apparel	154,416	136,588	6,496	11,332	16,226
316	Leather and allied products	31,512	28,055	393	3,064	2,682
321	Wood products	243,032	197,094	23,224	22,714	30,090
322	Paper	318,989	303,982	8,908	6,099	12,211
323	Printing and related support activities	252,257	241,915	5,270	5,072	7,328
324	Petroleum and coal products	62,578	57,804	2,160	2,614	3,693
325	Chemicals	474,614	458,942	11,105	4,567	9,730
326	Plastics and rubber products	490,496	458,802	16,719	14,975	15,281
327	Nonmetallic mineral products	221,549	196,686	12,237	12,626	18,296
331	Primary metals	360,220	340,776	14,437	5,007	10,136
332	Fabricated metal products	674,027	623,718	31,775	18,534	28,719
333	Machinery	695,149	667,670	17,017	10,462	17,509
334	Computer and electronic products	669,616	660,536	5,220	3,860	13,012
335	Electrical equipment, appliances, and components	331,916	321,921	4,214	5,781	5,600
336	Transportation equipment	1,067,022	1,044,245	14,947	7,830	24,282
337	Furniture and related products	249,475	220,786	18,052	10,637	26,630
339	Miscellaneous	291,953	272,883	11,412	7,658	11,833

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 35C. Use of E-mail with Vendors or Customers in 2000
by Number of Responding Manufacturing Plants by Size Class**

Employment Size Class¹	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
Plant Count Totals	34,476	29,948	2,236	2,292	4,509
Plants with-					
1-4 employees	319	205	33	81	246
5-9 employees	728	519	73	136	515
10-19 employees	2,159	1,606	221	332	859
20-49 employees	5,936	4,728	553	655	1,266
50-99 employees	6,654	5,664	533	457	784
100-249 employees	9,916	8,960	544	412	519
250-499 employees	4,940	4,636	176	128	149
500-999 employees	2,396	2,290	51	55	59
1,000-2,499 employees	849	829	11	9	16
2,500 employees or more	193	193	0	0	4
Employment unknown	386	318	41	27	92

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 36A. Use of Online Employee Training
by Number of Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Plant Count Totals	33,866	13,174	7,042	13,650	5,119
311	Food Products	2,920	1,139	616	1,165	510
312	Beverage and tobacco	363	172	62	129	47
313	Textile mills	652	224	128	300	114
314	Textile product mills	396	117	72	207	96
315	Apparel	678	181	111	386	227
316	Leather and allied products	144	35	23	86	35
321	Wood products	1,621	432	316	873	521
322	Paper	1,494	684	303	507	133
323	Printing and related support activities	1,887	663	396	828	242
324	Petroleum and coal products	431	241	61	129	146
325	Chemicals	2,457	1,450	415	592	182
326	Plastics and rubber products	2,431	954	550	927	288
327	Nonmetallic mineral products	1,606	498	292	816	493
331	Primary metals	1,155	466	271	418	111
332	Fabricated metal products	4,986	1,535	1,138	2,313	776
333	Machinery	3,521	1,345	762	1,414	306
334	Computer and electronic products	1,821	972	387	462	103
335	Electrical equipment, appliances, and components	1,041	499	223	319	72
336	Transportation equipment	1,645	828	340	477	133
337	Furniture and related products	1,062	269	233	560	289
339	Miscellaneous	1,555	470	343	742	295

Respondent may be counted in more than one column.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 36B. Use of Online Employee Training in 2000
by Employment for Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Associated Employment Totals¹	7,595,599	4,375,441	1,412,900	1,807,258	438,285
311	Food Products	743,372	361,112	150,604	231,656	62,956
312	Beverage and tobacco	85,986	57,965	12,111	15,910	4,430
313	Textile mills	185,144	74,732	35,691	74,721	18,488
314	Textile product mills	83,128	37,239	15,090	30,799	8,301
315	Apparel	152,593	61,189	26,666	64,738	18,049
316	Leather and allied products	31,103	11,802	6,070	13,231	3,091
321	Wood products	238,540	87,652	50,797	100,091	34,582
322	Paper	315,348	185,818	61,791	67,739	15,852
323	Printing and related support activities	249,618	132,817	49,723	67,078	9,967
324	Petroleum and coal products	62,287	51,677	5,090	5,520	3,984
325	Chemicals	473,083	345,572	76,043	51,468	11,261
326	Plastics and rubber products	481,300	243,766	98,673	138,861	24,477
327	Nonmetallic mineral products	218,330	98,615	43,177	76,538	21,515
331	Primary metals	357,353	196,444	84,506	76,403	13,003
332	Fabricated metal products	661,534	295,669	153,574	212,291	41,212
333	Machinery	687,403	395,475	133,105	158,823	25,255
334	Computer and electronic products	656,628	492,929	95,633	68,066	26,000
335	Electrical equipment, appliances, and components	328,700	208,009	56,422	64,269	8,816
336	Transportation equipment	1,052,498	794,016	130,274	128,208	38,806
337	Furniture and related products	240,890	95,498	60,260	85,132	35,215
339	Miscellaneous	290,761	147,445	67,600	75,716	13,025

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 36C. Use of Online Employee Training in 2000
by Number of Responding Manufacturing Plants by Size Class**

Employment Size Class¹	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
Plant Count Totals	33,866	13,174	7,042	13,650	5,119
Plants with-					
1-4 employees	312	91	51	170	253
5-9 employees	708	141	119	448	535
10-19 employees	2,106	441	363	1,302	912
20-49 employees	5,806	1,395	1,129	3,282	1,396
50-99 employees	6,537	2,087	1,489	2,961	901
100-249 employees	9,759	4,083	2,184	3,492	676
250-499 employees	4,865	2,567	1,048	1,250	224
500-999 employees	2,366	1,449	433	484	89
1,000-2,499 employees	838	617	127	94	27
2,500 employees or more	190	163	18	9	7
Employment unknown	379	140	81	158	99

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 37A. Use of Online Employee Recruiting in 2000
by Number of Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Plant Count Totals	33,746	12,882	5,848	15,016	5,239
311	Food Products	2,909	1,076	478	1,355	521
312	Beverage and tobacco	366	147	65	154	44
313	Textile mills	646	164	130	352	120
314	Textile product mills	392	103	65	224	100
315	Apparel	675	123	103	449	230
316	Leather and allied products	143	28	21	94	36
321	Wood products	1,625	386	249	990	517
322	Paper	1,488	562	258	668	139
323	Printing and related support activities	1,881	696	377	808	248
324	Petroleum and coal products	427	169	62	196	150
325	Chemicals	2,420	1,088	357	975	219
326	Plastics and rubber products	2,420	915	463	1,042	299
327	Nonmetallic mineral products	1,603	473	238	892	496
331	Primary metals	1,153	447	219	487	113
332	Fabricated metal products	4,974	1,577	987	2,410	788
333	Machinery	3,504	1,459	621	1,424	323
334	Computer and electronic products	1,822	1,186	230	406	102
335	Electrical equipment, appliances, and components	1,042	551	149	342	71
336	Transportation equipment	1,644	850	292	502	134
337	Furniture and related products	1,058	316	206	536	293
339	Miscellaneous	1,554	566	278	710	296

Respondent may be counted in more than one column.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 37B. Use of Online Employee Recruiting in 2000
by Employment for Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Associated Employment Totals¹	7,576,407	4,232,704	1,166,648	2,177,055	457,477
311	Food Products	740,962	328,237	128,222	284,503	65,366
312	Beverage and tobacco	86,364	50,400	13,280	22,684	4,052
313	Textile mills	184,462	51,991	39,621	92,850	19,170
314	Textile product mills	81,387	31,589	14,025	35,773	10,042
315	Apparel	151,682	39,316	23,579	88,787	18,960
316	Leather and allied products	31,177	10,171	4,102	16,904	3,017
321	Wood products	238,261	80,920	39,535	117,806	34,861
322	Paper	313,645	152,265	51,546	109,834	17,555
323	Printing and related support activities	246,040	137,795	41,865	66,380	13,545
324	Petroleum and coal products	62,389	36,754	8,822	16,813	3,882
325	Chemicals	466,756	300,348	68,015	98,393	17,588
326	Plastics and rubber products	479,275	233,340	82,921	163,014	26,502
327	Nonmetallic mineral products	216,457	102,207	30,421	83,829	23,388
331	Primary metals	356,969	200,373	57,875	98,721	13,387
332	Fabricated metal products	659,569	298,946	124,390	236,233	43,177
333	Machinery	689,558	426,103	95,058	168,397	23,100
334	Computer and electronic products	655,477	531,682	62,398	61,397	27,151
335	Electrical equipment, appliances, and components	327,388	215,952	39,265	72,171	10,128
336	Transportation equipment	1,050,602	733,251	150,904	166,447	40,702
337	Furniture and related products	249,254	102,565	48,474	98,215	26,851
339	Miscellaneous	288,733	168,499	42,330	77,904	15,053

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 37C. Use of Online Employee Recruiting in 2000
by Number of Responding Manufacturing Plants by Size Class**

Employment Size Class¹	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
Plant Count Totals	33,746	12,882	5,848	15,016	5,239
Plants with-					
1-4 employees	306	64	25	217	259
5-9 employees	711	118	108	485	532
10-19 employees	2,100	383	344	1,373	918
20-49 employees	5,774	1,363	1,006	3,405	1,428
50-99 employees	6,512	2,076	1,249	3,187	926
100-249 employees	9,735	4,082	1,779	3,874	700
250-499 employees	4,858	2,490	818	1,550	231
500-999 employees	2,350	1,423	329	598	105
1,000-2,499 employees	832	579	112	141	33
2,500 employees or more	192	155	17	20	5
Employment unknown	376	149	61	166	102

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 38A. Use of Online Employee Management of Own Benefits in 2000
by Number of Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Plant Count Totals	33,880	11,861	6,108	15,911	5,105
311	Food Products	2,912	1,028	537	1,347	518
312	Beverage and tobacco	365	141	80	144	45
313	Textile mills	653	176	107	370	113
314	Textile product mills	398	97	65	236	94
315	Apparel	673	168	118	387	232
316	Leather and allied products	142	45	20	77	37
321	Wood products	1,640	496	243	901	502
322	Paper	1,495	581	256	658	132
323	Printing and related support activities	1,891	586	359	946	238
324	Petroleum and coal products	425	182	67	176	152
325	Chemicals	2,444	1,152	436	856	195
326	Plastics and rubber products	2,438	832	460	1,146	281
327	Nonmetallic mineral products	1,609	471	294	844	490
331	Primary metals	1,152	376	238	538	114
332	Fabricated metal products	4,986	1,490	853	2,643	776
333	Machinery	3,511	1,250	642	1,619	316
334	Computer and electronic products	1,821	831	393	597	103
335	Electrical equipment, appliances, and components	1,035	439	188	408	78
336	Transportation equipment	1,655	732	315	608	123
337	Furniture and related products	1,070	311	177	582	281
339	Miscellaneous	1,565	477	260	828	285

Respondent may be counted in more than one column.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 38B. Use of Online Employee Management of Own Benefits in 2000
by Employment for Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Associated Employment Totals¹	7,609,593	3,516,215	1,647,652	2,445,726	424,291
311	Food Products	737,947	293,234	148,787	295,926	68,381
312	Beverage and tobacco	85,047	31,265	30,875	22,907	5,369
313	Textile mills	186,237	50,950	41,016	94,271	17,395
314	Textile product mills	83,891	27,349	17,338	39,204	7,538
315	Apparel	152,318	45,722	34,465	72,131	18,324
316	Leather and allied products	30,863	11,800	5,008	14,055	3,331
321	Wood products	239,624	81,653	47,993	109,978	33,498
322	Paper	316,077	143,207	68,884	103,986	15,123
323	Printing and related support activities	249,778	109,754	59,607	80,417	9,807
324	Petroleum and coal products	61,968	34,731	12,236	15,001	4,303
325	Chemicals	470,195	277,574	97,890	94,731	14,149
326	Plastics and rubber products	481,545	198,825	100,111	182,609	24,232
327	Nonmetallic mineral products	216,856	89,541	48,098	79,217	22,989
331	Primary metals	356,154	129,490	108,690	117,974	14,202
332	Fabricated metal products	660,161	243,004	136,101	281,056	42,585
333	Machinery	685,611	315,870	157,031	212,710	27,047
334	Computer and electronic products	664,129	399,948	154,377	109,804	18,499
335	Electrical equipment, appliances, and components	327,625	170,888	70,913	85,824	9,891
336	Transportation equipment	1,058,481	639,630	186,829	232,022	32,823
337	Furniture and related products	254,461	91,598	61,006	101,857	21,644
339	Miscellaneous	290,625	130,182	60,397	100,046	13,161

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 38C. Use of Online Employee Management of Own Benefits in 2000
by Number of Responding Manufacturing Plants by Size Class**

Employment Size Class¹	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
Plant Count Totals	33,880	11,861	6,108	15,911	5,105
Plants with-					
1-4 employees	312	68	33	211	253
5-9 employees	715	143	82	490	528
10-19 employees	2,114	430	284	1,400	904
20-49 employees	5,825	1,547	845	3,433	1,377
50-99 employees	6,544	2,126	1,113	3,305	894
100-249 employees	9,749	3,685	1,797	4,267	686
250-499 employees	4,849	2,066	1,017	1,766	240
500-999 employees	2,366	1,080	597	689	89
1,000-2,499 employees	839	464	209	166	26
2,500 employees or more	192	124	47	21	5
Employment unknown	375	128	84	163	103

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 39A. Use of Online Requests for Maintenance or Repairs in 2000
by Number of Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Plant Count Totals	33,754	9,378	7,755	16,621	5,231
311	Food Products	2,916	821	714	1,381	514
312	Beverage and tobacco	365	126	74	165	45
313	Textile mills	655	160	133	362	111
314	Textile product mills	394	78	77	239	98
315	Apparel	671	118	111	442	234
316	Leather and allied products	142	30	24	88	37
321	Wood products	1,628	314	319	995	514
322	Paper	1,496	496	367	633	131
323	Printing and related support activities	1,873	394	409	1,070	256
324	Petroleum and coal products	421	163	76	182	156
325	Chemicals	2,444	1,152	460	832	195
326	Plastics and rubber products	2,421	672	608	1,141	298
327	Nonmetallic mineral products	1,597	368	336	893	502
331	Primary metals	1,150	373	296	481	116
332	Fabricated metal products	4,963	995	1,139	2,829	799
333	Machinery	3,505	924	851	1,730	322
334	Computer and electronic products	1,814	700	428	686	110
335	Electrical equipment, appliances, and components	1,036	349	279	408	77
336	Transportation equipment	1,648	592	440	616	130
337	Furniture and related products	1,060	214	264	582	291
339	Miscellaneous	1,555	339	350	866	295

Respondent may be counted in more than one column.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 39B. Use of Online Requests for Maintenance or Repairs in 2000
by Employment for Responding Manufacturing Plants by Subsector**

[Data are based on the North American Industry Classification System (NAICS).]

NAICS Code	Description	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
	Associated Employment Totals¹	7,568,247	3,203,684	1,911,857	2,452,706	465,637
311	Food Products	738,234	277,884	179,859	280,491	68,094
312	Beverage and tobacco	86,028	38,922	23,468	23,638	4,388
313	Textile mills	186,478	59,184	36,990	90,304	17,154
314	Textile product mills	83,874	25,717	22,100	36,057	7,555
315	Apparel	150,341	40,293	29,281	80,767	20,301
316	Leather and allied products	30,854	8,255	5,581	17,018	3,340
321	Wood products	238,160	63,125	62,708	112,327	34,962
322	Paper	316,360	145,723	81,678	88,959	14,840
323	Printing and related support activities	248,301	86,573	58,322	103,406	11,284
324	Petroleum and coal products	61,692	43,453	9,021	9,218	4,579
325	Chemicals	469,823	281,075	91,189	97,559	14,521
326	Plastics and rubber products	479,176	188,653	118,326	172,197	26,601
327	Nonmetallic mineral products	217,070	76,533	54,190	86,347	22,775
331	Primary metals	357,123	176,977	91,051	89,095	13,233
332	Fabricated metal products	658,206	192,911	183,406	281,889	44,540
333	Machinery	685,408	281,686	174,553	229,169	27,250
334	Computer and electronic products	652,862	359,364	152,130	141,368	29,766
335	Electrical equipment, appliances, and components	326,046	142,705	100,944	82,397	11,470
336	Transportation equipment	1,053,130	542,524	283,390	227,216	38,174
337	Furniture and related products	239,438	67,195	71,276	100,967	36,667
339	Miscellaneous	289,643	104,932	82,394	102,317	14,143

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)

**Table 39C. Use of Online Requests for Maintenance or Repairs in 2000
by Number of Responding Manufacturing Plants by Size Class**

Employment Size Class¹	Total Item Respondents	Used in 2000	Plans to Use by 12/2002	No Plans to Use by 12/2002	Total Item Nonrespondents
Plant Count Totals	33,754	9,378	7,755	16,621	5,231
Plants with-					
1-4 employees	310	65	49	196	255
5-9 employees	710	100	110	500	533
10-19 employees	2,096	291	363	1,442	922
20-49 employees	5,780	965	1,057	3,758	1,422
50-99 employees	6,527	1,402	1,478	3,647	911
100-249 employees	9,714	2,884	2,464	4,366	721
250-499 employees	4,855	1,861	1,313	1,681	234
500-999 employees	2,361	1,106	592	663	94
1,000-2,499 employees	833	470	194	169	32
2,500 employees or more	190	120	47	23	7
Employment unknown	378	114	88	176	100

Respondent may be counted in more than one column.

¹ Employment data are from the 1999 Annual Survey of Manufactures.

Source: U.S. Census Bureau, 1999 Annual Survey of Manufactures: March 2002

[Back](#)