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2002 Economic Census

Information

Industry Series



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-- Not applicable for this report.

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

The economic census is the major source of facts about the structure and functioning of the nation's economy. It provides essential information for government, business, industry, and the general public. Title 13 of the United States Code (Sections 131, 191, and 224) directs the Census Bureau to take the economic census every 5 years, covering years ending in "2" and "7."

The economic census furnishes an important part of the framework for such composite measures as the gross domestic product estimates, input/output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions. Specific uses of economic census data include the following:

- Policymaking agencies of the federal government use the data to monitor economic activity and to assess the effectiveness of policies.
- State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.
- Trade associations study trends in their own and competing industries, which allows them to keep their members informed of market changes.
- Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

INDUSTRY CLASSIFICATIONS

Data from the 2002 Economic Census are published primarily according to the 2002 North American Industry Classification System (NAICS). NAICS was first adopted in the United States, Canada, and Mexico in 1997. The 2002 Economic Census covers the following NAICS sectors:

21	Mining
22	Utilities
23	Construction
31-33	Manufacturing
42	Wholesale Trade
44-45	Retail Trade
48-49	Transportation and Warehousing
51	Information
52	Finance and Insurance
53	Real Estate and Rental and Leasing
54	Professional, Scientific, and Technical Services
55	Management of Companies and Enterprises
56	Administrative and Support and Waste Management and Remediation Services
61	Educational Services
62	Health Care and Social Assistance
71	Arts, Entertainment, and Recreation
72	Accommodation and Food Services
81	Other Services (except Public Administration)

(Not listed above are the Agriculture, Forestry, Fishing, and Hunting sector (NAICS 11), partially covered by the census of agriculture conducted by the U.S. Department of Agriculture, and the Public Administration sector (NAICS 92), largely covered by the census of governments conducted by the Census Bureau.)

The 20 NAICS sectors are subdivided into 100 subsectors (three-digit codes), 317 industry groups (four-digit codes), and, as implemented in the United States, 1,179 industries (six-digit codes).

RELATIONSHIP TO HISTORICAL INDUSTRY CLASSIFICATIONS

Prior to the 1997 Economic Census, data were published according to the Standard Industrial Classification (SIC) system. While many of the individual NAICS industries correspond directly to industries as defined under the SIC system, most of the higher level groupings do not. Particular care should be taken in comparing data for retail trade, wholesale trade, and manufacturing, which are sector titles used in both NAICS and SIC, but cover somewhat different groups of industries. The 1997 Economic Census *Bridge Between NAICS and SIC* demonstrates the relationships between NAICS and SIC industries. Where changes are significant, it may not be possible to construct time series that include data for points both before and after 1997.

Most industry classifications remained unchanged between 1997 and 2002, but NAICS 2002 includes substantial revisions within the construction and wholesale trade sectors, and a number of revisions for the retail trade and information sectors. These changes are noted in industry definitions and will be demonstrated in the *Bridge Between NAICS 2002 and NAICS 1997*.

For 2002, data for enterprise support establishments (those functioning primarily to support the activities of their company's operating establishments, such as a warehouse or a research and development laboratory) are included in the industry that reflects their activities (such as warehousing). For 1997, such establishments were termed auxiliaries and were excluded from industry totals.

BASIS OF REPORTING

The economic census is conducted on an establishment basis. A company operating at more than one location is required to file a separate report for each store, factory, shop, or other location. Each establishment is assigned a separate industry classification based on its primary activity and not that of its parent company. (For selected industries, only payroll, employment, and classification are collected for individual establishments, while other data are collected on a consolidated basis.)

GEOGRAPHIC AREA CODING

Accurate and complete information on the physical location of each establishment is required to tabulate the census data for states, metropolitan and micropolitan statistical areas, counties, and corporate municipalities (places) including cities, towns, townships, villages, and boroughs. Respondents were required to report their physical location (street address, municipality, county, and state) if it differed from their mailing address. For establishments not surveyed by mail (and those single-establishment companies that did not provide acceptable information on physical location), location information from administrative sources is used as a basis for coding.

AVAILABILITY OF ADDITIONAL DATA

All results of the 2002 Economic Census are available on the Census Bureau Internet site (www.census.gov) and on digital versatile discs (DVD-ROMs) for sale by the Census Bureau. The American FactFinder system at the Internet site allows selective retrieval and downloading of the data. For more information, including a description of reports being issued, see the Internet site, write to the U.S. Census Bureau, Washington, DC 20233-6100, or call Customer Services at 301-763-4100.

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1954, 1958, and 1963. Prior to that time, individual components of the economic census were taken separately at varying intervals.

The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for the 1840 Decennial Census and subsequent censuses to include mining and some commercial activities. The 1905 Manufactures Census was the first time a census was taken apart

from the regular decennial population census. Censuses covering retail and wholesale trade and construction industries were added in 1930, as were some service trades in 1933. Censuses of construction, manufacturing, and the other business censuses were suspended during World War II.

The 1954 Economic Census was the first census to be fully integrated, providing comparable census data across economic sectors and using consistent time periods, concepts, definitions, classifications, and reporting units. It was the first census to be taken by mail, using lists of firms provided by the administrative records of other federal agencies. Since 1963, administrative records also have been used to provide basic statistics for very small firms, reducing or eliminating the need to send them census report forms.

The range of industries covered in the economic census expanded between 1967 and 2002. The census of construction industries began on a regular basis in 1967, and the scope of service industries, introduced in 1933, was broadened in 1967, 1977, and 1987. While a few transportation industries were covered as early as 1963, it was not until 1992 that the census broadened to include all of transportation, communications, and utilities. Also new for 1992 was coverage of financial, insurance, and real estate industries. With these additions, the economic census and the separate census of governments and census of agriculture collectively covered roughly 98 percent of all economic activity. New for 2002 is coverage of four industries classified in the agriculture, forestry, and fishing sector under the SIC system: landscape architectural services, landscaping services, veterinary services, and pet care services.

Printed statistical reports from the 1992 and earlier censuses provide historical figures for the study of long-term time series and are available in some large libraries. Reports for 1997 were published primarily on the Internet and copies of 1992 reports are also available there. CD-ROMs issued from the 1987, 1992, and 1997 Economic Censuses contain databases that include all or nearly all data published in print, plus additional statistics, such as ZIP Code statistics, published only on CD-ROM.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for the 2002 Economic Census and related surveys is published in the *Guide to the 2002 Economic Census* at www.census.gov/econ/census02/guide. More information on the methodology, procedures, and history of the census will be published in the *History of the 2002 Economic Census* at www.census.gov/econ/www/history.html.

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Information

SCOPE

The Information sector (sector 51) comprises establishments engaged in the following processes: (a) producing and distributing information and cultural products, (b) providing the means to transmit or distribute these products as well as data or communications, and (c) processing data.

The main components of this sector are the publishing industries, including software publishing, and both traditional publishing and publishing exclusively over the Internet; the telecommunications industries; the industries known as Internet service providers and Web search portals, data processing industries, and the information services industries.

The expressions “information age” and “global information economy” are used with considerable frequency today. The general idea of an “information economy” includes both the notion of industries primarily producing, processing, and distributing information, as well as the idea that every industry is using available information and information technology to reorganize and make themselves more productive.

For the purpose of developing NAICS, it is the transformation of information into a commodity that is produced and distributed by a number of growing industries that is at issue. The Information sector groups three types of establishments: (1) those engaged in producing and distributing information and cultural products; (2) those that provide the means to transmit or distribute these products as well as data or communications; and (3) those that process data. Cultural products are those that directly express attitudes, opinions, ideas, values, and artistic creativity; provide entertainment; or offer information and analysis concerning the past and present. Included in this definition are popular, mass-produced products, as well as cultural products that normally have a more limited audience, such as poetry books, literary magazines, or classical records.

The unique characteristics of information and cultural products, and of the processes involved in their production and distribution, distinguish the Information sector from the goods-producing and service-producing sectors. Some of these characteristics are:

1. Unlike traditional goods, an “information or cultural product,” such as a newspaper online or television program, does not necessarily have tangible qualities, nor is it necessarily associated with a particular form. A movie can be shown at a movie theater, on a television broadcast, through video-on-demand or rented at a local video store. A sound recording can be aired on radio, embedded in multimedia products, or sold at a record store.
2. Unlike traditional services, the delivery of these products does not require direct contact between the supplier and the consumer.
3. The value of these products to the consumer lies in their informational, educational, cultural, or entertainment content, not in the format in which they are distributed. Most of these products are protected from unlawful reproduction by copyright laws.
4. The intangible property aspect of information and cultural products makes the processes involved in their production and distribution very different from goods and services. Only those possessing the rights to these works are authorized to reproduce, alter, improve, and distribute them. Acquiring and using these rights often involves significant costs. In addition, technology is revolutionizing the distribution of these products. It is possible to distribute them in a physical form, via broadcast, or online.
5. Distributors of information and cultural products can easily add value to the products they distribute. For instance, broadcasters add advertising not contained in the original product.

This capacity means that unlike traditional distributors, they derive revenue not from sale of the distributed product to the final consumer, but from those who pay for the privilege of adding information to the original product. Similarly, a directory and mailing list publisher can acquire the rights to thousands of previously published newspaper and periodical articles and add new value by providing search and software and organizing the information in a way that facilitates research and retrieval. These products often command a much higher price than the original information.

The distribution modes for information commodities may either eliminate the necessity for traditional manufacture, or reverse the conventional order of manufacture-distribute: A newspaper distributed online, for example, can be printed locally or by the final consumer. Similarly, it is anticipated that packaged software, which today is mainly bought through the traditional retail channels, will soon be available mainly online. The NAICS Information sector is designed to make such economic changes transparent as they occur, or to facilitate designing surveys that will monitor the new phenomena and provide data to analyze the changes.

Many of the industries in the NAICS Information sector are engaged in producing products protected by copyright law, or in distributing them (other than distribution by traditional wholesale and retail methods). Examples are traditional publishing industries, software and directory and mailing list publishing industries, and film and sound industries. Broadcasting and telecommunications industries and information providers and processors are also included in the Information sector, because their technologies are so closely linked to other industries in the Information sector.

Many of the “kinds of business” included in this sector are not thought of as commercial businesses and the terms (such as “business,” “establishment,” and “firm”) used to describe them may not be descriptive of such services. However, these terms are applied to all “kinds of business” in order to maintain conformity in the measures of the production and delivery of goods and services and in the presentation of data.

Exclusions. The tabulations for this sector do not include central administrative offices, warehouses, or other establishments that serve information establishments within the same organization. Data for such establishments are classified according to the nature of the service they provide. For example, separate headquarters establishments are reported in NAICS sector 55, Management of Companies and Enterprises.

The reports described below exclude establishments of firms with no paid employees. These “nonemployers,” typically self-employed individuals or partnerships operating businesses that they have not chosen to incorporate, are reported separately in *Nonemployer Statistics*. The contribution of nonemployers, relatively large for this sector, may be examined at www.census.gov/nonemployerimpact.

Definitions. Industry categories are defined in Appendix B, NAICS Codes, Titles, and Descriptions. Other terms are defined in Appendix A, Explanation of Terms.

REPORTS

The following reports provide statistics on this sector.

Industry Series. There are 13 reports, each covering a group of related industries. The reports present, by kind of business for the United States, general statistics for establishments of firms with payroll on number of establishments, receipts, payroll, and employment; comparative statistics for 2002 and 1997; product lines; and concentration of business activity in the largest firms. The data in industry reports are preliminary and subject to change in the following reports.

Geographic Area Series. There is a separate report for each state, the District of Columbia, and the United States. Each state report presents, for establishments of firms with payroll, general statistics on number of establishments, receipts, expenses of tax-exempt establishments, payroll, and employment by kind of business for the state, metropolitan and micropolitan statistical areas, counties, and places with 2,500 inhabitants or more. Greater kind-of-business detail is shown for larger areas. The United States report presents data for the United States as a whole for detailed kind-of-business classifications.

Subject Series:

- **Product Lines.** This report presents product lines data for establishments of firms with payroll by kind of business. Data are presented for the United States and states.
- **Establishment and Firm Size (Including Legal Form of Organization).** This report presents receipts/revenue, payroll, and employment data for the United States by receipts/revenue size, by employment size, and by legal form of organization for establishments of firms with payroll; and by receipts/revenue size (including concentration by largest firms), by employment size, and by number of establishments operated (single units and multiunits) for firms with payroll.
- **Miscellaneous Subjects.** This report presents data for a variety of industry-specific topics for establishments of firms with payroll. Presentation of data varies by kind of business.

Other reports. Data for this sector are also included in reports with multisector coverage, including *Nonemployer Statistics*, *Comparative Statistics*, *Bridge Between 2002 NAICS and 1997 NAICS*, *Business Expenses*, and the Survey of Business Owners reports.

GEOGRAPHIC AREAS COVERED

The level of geographic detail varies by report. Maps are available at www.census.gov/econ2002maps. Notes specific to areas in the state are included in Appendix D, Geographic Notes. Data may be presented for –

1. The United States as a whole.
2. States and the District of Columbia.
3. Metropolitan and micropolitan statistical areas. A core based statistical area (CBSA) contains a core area with a substantial population nucleus, together with adjacent communities having a high degree of social and economic integration with that core. CBSAs are differentiated into metropolitan and micropolitan statistical areas based on size criteria. Both metropolitan and micropolitan statistical areas are defined in terms of entire counties, and are listed in Appendix E, Metropolitan and Micropolitan Statistical Areas.
 - a. Metropolitan Statistical Areas (metro areas). Metro areas have at least one urbanized area of 50,000 or more population, plus adjacent territory that has a high degree of social and economic integration with the core as measured by commuting ties.
 - b. Micropolitan Statistical Areas (micro areas). Micro areas have at least one urban cluster of at least 10,000, but less than 50,000 population, plus adjacent territory that has a high degree of social and economic integration with the core as measured by commuting ties.
 - c. Metropolitan Divisions (metro divisions). If specified criteria are met, a metro area containing a single core with a population of 2.5 million or more may be subdivided to form smaller groupings of counties referred to as Metropolitan Divisions.
 - d. Combined Statistical Areas (combined areas). If specified criteria are met, adjacent metro and micro areas, in various combinations, may become the components of a new set of areas called Combined Statistical Areas. The areas that combine retain their own designations as metro or micro areas within the larger combined area.
4. Counties and county equivalents defined as of January 1, 2002. Counties are the primary divisions of states, except in Louisiana where they are called parishes and in Alaska where they are called boroughs, census areas, and city and boroughs. Maryland, Missouri, Nevada, and Virginia have one place or more that is independent of any county organization and constitutes primary divisions of their states. These places are treated as counties and as places.
5. Economic places.

-
- a. Municipalities of 2,500 inhabitants or more defined as of January 1, 2002. These are areas of significant population incorporated as cities, boroughs, villages, or towns according to the 2000 Census of Population. For the economic census, boroughs, census areas, and city and boroughs in Alaska and boroughs in New York are not included in this category.
 - b. Consolidated cities defined as of January 1, 2002. Consolidated cities are consolidated governments that consist of separately incorporated municipalities.
 - c. Townships in Michigan, New Jersey, and Pennsylvania, and towns in New York, Wisconsin, and the six New England states with 10,000 inhabitants or more (according to the 2000 Census of Population).
 - d. Balance of county. Areas outside the entities listed above, including incorporated municipalities with populations of fewer than 2,500, towns and townships not qualifying as noted above, and the remainders of counties outside places are categorized as "Balance of county."

DOLLAR VALUES

All dollar values presented are expressed in current dollars; i.e., 2002 data are expressed in 2002 dollars, and 1997 data, in 1997 dollars. Consequently, when making comparisons with prior years, users of the data should consider the changes in prices that have occurred.

All dollar values are shown in thousands of dollars.

COMPARABILITY OF THE 1997 AND 2002 ECONOMIC CENSUSES

Both the 2002 Economic Census and the 1997 Economic Census present data based on the North American Industry Classification System (NAICS).

The 1997 Economic Census was the first census to present data based on NAICS, the successor to the Standard Industrial Classification (SIC) system. NAICS was revised for 2002 and a number of revisions affect the Information Sector. New industries were created for Internet publishing and broadcasting and Web search portals. Revisions to the hierarchical structure were made and revised NAICS codes were assigned to selected industries. Most tables in the 2002 Economic Census reports present data based on 2002 NAICS. A comparative table in the Industry Series reports, and the multisector Comparative Statistics report, present data for both 2002 and 1997 based on 1997 NAICS.

These tables for 2002 include information establishments that primarily serve other establishments of the same enterprise. These "enterprise support" establishments were not included in data for the information sector in 1997, but were instead included in the "Other auxiliary establishments" kind-of-business category in the "Auxiliaries, Excluding Corporate, Subsidiary, and Regional Managing Offices" reports.

RELIABILITY OF DATA

All data compiled for this sector are subject to nonsampling errors. Nonsampling errors can be attributed to many sources: inability to identify all cases in the actual universe; definition and classification difficulties; differences in the interpretation of questions; errors in recording or coding the data obtained; and other errors of collection, response, coverage, processing, and estimation for missing or misreported data. Data presented in the Miscellaneous Subjects and Product Lines reports for this sector are subject to sampling errors, as well as nonsampling errors.

The accuracy of these tabulated data is determined by the joint effects of the various nonsampling errors or by the joint effects of sampling and nonsampling errors. No direct measurement of these effects has been obtained except for estimation for missing or misreported data, as by the percentages shown in the tables. Precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize the effects of nonsampling errors. More information on the reliability of the data is included in Appendix C, Methodology.

DISCLOSURE

In accordance with federal law governing census reports (Title 13 of the United States Code), no data are published that would disclose the operations of an individual establishment or business. However, the number of establishments in a kind-of-business classification is not considered a disclosure; therefore, this information may be released even though other information is withheld. Techniques employed to limit disclosure are discussed at www.census.gov/epcd/ec02/disclosure.htm.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

The Census Bureau conducts the Service Annual Survey (SAS) each year. This survey, while providing more frequent observations, yields less kind-of-business and geographic detail than the economic census. In addition, the County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county, and Statistics of U.S. Businesses program provides annual statistics classified by the employment size of the enterprise, further classified by industry for the United States, and by broader categories for states and metropolitan areas.

CONTACTS FOR DATA USERS

Questions about these data may be directed to the U.S. Census Bureau, Service Sector Statistics Division, Service Census Branch, 1-800-541-8345 or scb@census.gov.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used with these data:

D	Withheld to avoid disclosing data of individual companies; data are included in higher level totals
N	Not available or not comparable
Q	Receipts not collected at this level of detail for multiestablishment firms
S	Withheld because estimates did not meet publication standards
X	Not applicable
Z	Less than half the unit shown
a	0 to 19 employees
b	20 to 99 employees
c	100 to 249 employees
e	250 to 499 employees
f	500 to 999 employees
g	1,000 to 2,499 employees
h	2,500 to 4,999 employees
i	5,000 to 9,999 employees
j	10,000 to 24,999 employees
k	25,000 to 49,999 employees
l	50,000 to 99,999 employees
m	100,000 employees or more
r	Revised
–	Represents zero (page image/print only)
(CC)	Consolidated city
(IC)	Independent city

Table 1. Summary Statistics for the United States: 2002

[These data are preliminary and are subject to change; they will be superseded by data released in later reports. Includes only establishments of firms with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see note at end of table. Enterprise support establishments are included. Because of this, comparability to 1997 Economic Census data may be limited. See introductory text for an explanation of the treatment of enterprise support establishments in the 2002 Economic Census compared to the 1997 Economic Census]

2002 NAICS code	Kind of business	Estab-lishments (number)	Receipts (\$1,000)	Annual payroll (\$1,000)	First-quarter payroll (\$1,000)	Paid employees for pay period including March 12 (number)	Percent of receipts—	
							From admini-strative records ¹	Estimated ²
517	Telecommunications	49 055	411 807 701	71 486 038	19 212 264	1 427 997	1.4	4.3
5171	Wired telecommunications carriers	27 891	238 262 752	46 949 234	12 772 082	835 372	1.1	2.6
51711	Wired telecommunications carriers	27 891	238 262 752	46 949 234	12 772 082	835 372	1.1	2.6
517110	Wired telecommunications carriers	27 891	238 262 752	46 949 234	12 772 082	835 372	1.1	2.6
5172	Wireless telecommunications carriers (except satellite)	11 175	100 106 033	13 348 034	3 585 203	286 128	1.4	3.3
51721	Wireless telecommunications carriers (except satellite)	11 175	100 106 033	13 348 034	3 585 203	286 128	1.4	3.3
517211	Paging	1 664	2 961 493	786 648	203 686	23 625	13.3	18.7
517212	Cellular and other wireless telecommunications	9 511	97 144 540	12 561 386	3 381 517	262 503	1.1	2.8
5173	Telecommunications resellers	2 526	9 390 740	1 375 305	373 642	34 003	9.6	19.3
51731	Telecommunications resellers	2 526	9 390 740	1 375 305	373 642	34 003	9.6	19.3
517310	Telecommunications resellers	2 526	9 390 740	1 375 305	373 642	34 003	9.6	19.3
5174	Satellite telecommunications	634	5 728 681	864 619	234 852	13 849	3.2	33.8
51741	Satellite telecommunications	634	5 728 681	864 619	234 852	13 849	3.2	33.8
517410	Satellite telecommunications	634	5 728 681	864 619	234 852	13 849	3.2	33.8
5175	Cable and other program distribution	6 118	56 709 967	8 328 039	2 082 968	247 112	.6	6.9
51751	Cable and other program distribution	6 118	56 709 967	8 328 039	2 082 968	247 112	.6	6.9
517510	Cable and other program distribution	6 118	56 709 967	8 328 039	2 082 968	247 112	.6	6.9
5179	Other telecommunications	711	1 609 528	620 807	163 517	11 533	11.5	40.0
51791	Other telecommunications	711	1 609 528	620 807	163 517	11 533	11.5	40.0
517910	Other telecommunications	711	1 609 528	620 807	163 517	11 533	11.5	40.0

¹Includes receipts information obtained from administrative records of other federal agencies.

²Includes receipts information that was imputed based on historic data, administrative data, industry averages, or other statistical methods.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling error. Data users who create their own estimates using data from this table should cite the Census Bureau as the source of the original data only. See also explanation of terms and geographic definitions. For the full technical documentation, see Appendix C.

Table 2. Comparative Statistics for the United States (1997 NAICS Basis): 2002 and 1997

[These data are preliminary and are subject to change; they will be superseded by data released in later reports. Includes only establishments of firms with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A. Data based on the 2002 and 1997 Economic Censuses. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see note at end of table. Enterprise support establishments are included. Because of this, comparability to 1997 Economic Census data may be limited. See introductory text for an explanation of the treatment of enterprise support establishments in the 2002 Economic Census compared to the 1997 Economic Census]

1997 NAICS code	Kind of business	Establishments (number)	Receipts (\$1,000)	Annual payroll (\$1,000)	Paid employees for pay period including March 12 (number)	
51322	Cable and other program distribution	2002..	6 118	56 709 967	8 328 039	247 112
		1997..	4 185	34 999 969	4 792 975	147 863
513220	Cable and other program distribution	2002..	6 118	56 709 967	8 328 039	247 112
		1997..	4 185	34 999 969	4 792 975	147 863
5133	Telecommunications	2002..	42 937	355 097 734	63 157 999	1 180 885
		1997..	30 012	260 500 898	47 459 520	1 010 389
51331	Wired telecommunications carriers	2002..	27 891	238 262 752	46 949 234	835 372
		1997..	20 815	208 790 552	39 564 540	815 427
513310	Wired telecommunications carriers	2002..	27 891	238 262 752	46 949 234	835 372
		1997..	20 815	208 790 552	39 564 540	815 427
51332	Wireless telecommunications carriers (except satellite)	2002..	11 175	100 106 033	13 348 034	286 128
		1997..	6 386	37 888 862	5 839 301	146 302
513321	Paging	2002..	1 664	2 961 493	786 648	23 625
		1997..	3 427	16 970 204	2 583 708	70 445
513322	Cellular and other wireless telecommunications	2002..	9 511	97 144 540	12 561 386	262 503
		1997..	2 959	20 918 658	3 255 593	75 857
51333	Telecommunications resellers	2002..	2 526	9 390 740	1 375 305	34 003
		1997..	1 656	7 592 298	1 185 078	30 028
513330	Telecommunications resellers	2002..	2 526	9 390 740	1 375 305	34 003
		1997..	1 656	7 592 298	1 185 078	30 028
51334	Satellite telecommunications	2002..	634	5 728 681	864 619	13 849
		1997..	521	5 096 182	599 282	11 931
513340	Satellite telecommunications	2002..	634	5 728 681	864 619	13 849
		1997..	521	5 096 182	599 282	11 931
51339	Other telecommunications	2002..	711	1 609 528	620 807	11 533
		1997..	634	1 133 004	271 319	6 701
513390	Other telecommunications	2002..	711	1 609 528	620 807	11 533
		1997..	634	1 133 004	271 319	6 701

Note: The data in this table are based on the 2002 and 1997 Economic Censuses. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling error. Data users who create their own estimates using data from this table should cite the Census Bureau as the source of the original data only. See also explanation of terms and geographic definitions. For the full technical documentation, see Appendix C.

Table 3. Product Lines by Kind of Business for the United States: 2002

[These data are preliminary and are subject to change; they will be superseded by data released in later reports. Includes only establishments of firms with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see note at end of table. Enterprise support establishments are included. Because of this, comparability to 1997 Economic Census data may be limited. See introductory text for an explanation of the treatment of enterprise support establishments in the 2002 Economic Census compared to the 1997 Economic Census.]

2002 NAICS code	2002 Product line code	Kind of business and product line	Establishments with the product line		Product line receipts			Response coverage ² (percent)
			Number	Total receipts (\$1,000)	Amount ¹ (\$1,000)	As percent of total receipts of—		
						Establishments with the product line	All establishments ¹	
517		Telecommunications	49 055	X	411 807 701	X	100.0	85.0
	31730	Mailing lists, rental or sale	N	N	6 372	N	Z	X
	32340	Television: Program rights	N	N	4 537	N	Z	X
	32380	Multichannel programming distribution services (analog and digital)	N	N	43 894 309	N	10.7	X
	32390	Air time - Program distribution networks: Advertising	N	N	3 242 109	N	.8	X
	32400	Cable and other program distribution: Related services	N	N	3 140 598	N	.8	X
	32410	Production and postproduction services - Television	N	N	1 134	N	Z	X
	32420	Carrier services, including network access services to other telecommunication carriers	N	N	63 345 240	N	15.4	X
	32430	Basic fixed local telephony - Residential	N	N	40 248 238	N	9.8	X
	32440	Basic fixed local telephony - Business	N	N	29 619 616	N	7.2	X
	32450	Basic fixed local telephony - Public	N	N	8 824 500	N	2.1	X
	32460	Calling features, including call waiting, caller ID, voice mail - Fixed telephony	N	N	12 981 410	N	3.2	X
	32470	Basic fixed long distance telephony - Outbound - Residential	N	N	25 625 978	N	6.2	X
	32480	Basic fixed long distance telephony - Outbound - Business	N	N	19 376 067	N	4.7	X
	32490	Basic fixed long distance telephony - Outbound - Public	N	N	1 474 928	N	.4	X
	32500	Basic fixed long distance telephony - Inbound	N	N	7 391 820	N	1.8	X
	32510	Basic fixed all distance telephony	N	N	1 381 144	N	.3	X
	32520	Private network services	N	N	8 105 906	N	2.0	X
	32530	Data transmission services	N	N	7 143 866	N	1.7	X
	32540	Mobile local access and use ³	N	N	63 388 294	N	15.4	X
	32550	Calling features, including call waiting, caller ID, voice mail - Mobile telephony ³	N	N	2 709 963	N	.7	X
	32560	Mobile long distance telephony ³	N	N	6 341 553	N	1.5	X
	32570	Mobile all distance telephony ³	N	N	10 376 089	N	2.5	X
	32580	Messaging (paging) services ³	N	N	3 032 371	N	.7	X
	32590	Mobile dispatch services ³	N	N	143 945	N	Z	X
	32600	Other telecommunication services, including telegraph, audio conferencing, telex, etc.	N	N	9 796 214	N	2.4	X
	32610	Telecommunications network installation services	N	N	1 302 342	N	.3	X
	32620	Telecommunications equipment sales	N	N	8 223 054	N	2.0	X
	32630	Telecommunications equipment rental, including leasing	N	N	846 795	N	.2	X
	32640	Telecommunications equipment maintenance	N	N	1 597 423	N	.4	X
	32650	Sale of directory advertising space - print, not specified by type	N	N	1 165 293	N	.3	X
	32710	Internet backbone services	N	N	2 846 947	N	.7	X
	35100	Computer network design and development services	N	N	403 967	N	.1	X
	35550	Internet access services	N	N	12 273 260	N	3.0	X
	39000	Merchandise sales	N	N	98 891	N	Z	X
	39500	All other receipts	N	N	11 453 528	N	2.8	X
5171		Wired telecommunications carriers	27 891	X	238 262 752	X	100.0	83.9
	31730	Mailing lists, rental or sale	Q	Q	2 383	Q	Z	X
	32380	Multichannel programming distribution services (analog and digital)	Q	Q	312 124	Q	.1	X
	32420	Carrier services, including network access services to other telecommunication carriers	Q	Q	56 115 643	Q	23.6	X
	32430	Basic fixed local telephony - Residential	Q	Q	38 510 409	Q	16.2	X
	32440	Basic fixed local telephony - Business	Q	Q	28 803 584	Q	12.1	X
	32450	Basic fixed local telephony - Public	Q	Q	8 770 452	Q	3.7	X
	32460	Calling features, including call waiting, caller ID, voice mail - Fixed telephony	Q	Q	12 878 102	Q	5.4	83.4
	32461	Residential	Q	Q	9 671 455	Q	4.1	X
	32462	Business	Q	Q	3 206 647	Q	1.3	X
	32470	Basic fixed long distance telephony - Outbound - Residential	Q	Q	22 978 060	Q	9.6	X
	32480	Basic fixed long distance telephony - Outbound - Business	Q	Q	17 929 272	Q	7.5	50.9
	32481	Switched access outbound - Intrastate	Q	Q	3 520 771	Q	1.5	X
	32482	Switched access outbound - Interstate	Q	Q	6 241 358	Q	2.6	X
	32483	Switched access outbound - International	Q	Q	1 924 349	Q	.8	X
	32484	Special access outbound - Intrastate	Q	Q	1 870 920	Q	.8	X
	32485	Special access outbound - Interstate	Q	Q	4 306 432	Q	1.8	X
	32486	Special access outbound - International	Q	Q	65 442	Q	Z	X
	32490	Basic fixed long distance telephony - Outbound - Public	Q	Q	1 248 497	Q	.5	X
	32500	Basic fixed long distance telephony - Inbound	Q	Q	6 888 176	Q	2.9	45.7
	32510	Basic fixed all distance telephony	Q	Q	1 167 487	Q	.5	X
	32520	Private network services	Q	Q	7 469 537	Q	3.1	61.2
	32521	Intrastate toll service	Q	Q	1 340 035	Q	.6	X
	32522	Interstate toll service	Q	Q	5 408 916	Q	2.3	X
	32523	International toll service	Q	Q	720 586	Q	.3	X
	32530	Data transmission services	Q	Q	6 199 597	Q	2.6	X
	32540	Mobile local access and use ³	Q	Q	100 070	Q	Z	X
	32550	Calling features, including call waiting, caller ID, voice mail - Mobile telephony ³	Q	Q	9 531	Q	Z	X
	32560	Mobile long distance telephony ³	Q	Q	73 861	Q	Z	X
	32570	Mobile all distance telephony ³	Q	Q	9 531	Q	Z	X
	32580	Messaging (paging) services ³	Q	Q	131 045	Q	.1	X
	32600	Other telecommunication services, including telegraph, audio conferencing, telex, etc.	Q	Q	3 190 338	Q	1.3	X
	32610	Telecommunications network installation services	Q	Q	1 091 243	Q	.5	X
	32620	Telecommunications equipment sales	Q	Q	2 253 966	Q	.9	X
	32630	Telecommunications equipment rental, including leasing	Q	Q	652 840	Q	.3	X
	32640	Telecommunications equipment maintenance	Q	Q	1 451 020	Q	.6	X
	32650	Sale of directory advertising space - print, not specified by type	Q	Q	1 165 105	Q	.5	X
	32710	Internet backbone services	Q	Q	2 678 073	Q	1.1	X
	35100	Computer network design and development services	Q	Q	383 603	Q	.2	82.9
	35102	Computer network design and development services, other than security	Q	Q	383 603	Q	.2	X
	35550	Internet access services	Q	Q	7 059 725	Q	3.0	66.8
	35551	Narrowband	Q	Q	1 455 786	Q	.6	X
	35552	Broadband	Q	Q	5 603 939	Q	2.4	X

See footnotes at end of table.

Table 3. Product Lines by Kind of Business for the United States: 2002—Con.

[These data are preliminary and are subject to change; they will be superseded by data released in later reports. Includes only establishments of firms with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see note at end of table. Enterprise support establishments are included. Because of this, comparability to 1997 Economic Census data may be limited. See introductory text for an explanation of the treatment of enterprise support establishments in the 2002 Economic Census compared to the 1997 Economic Census.]

2002 NAICS code	2002 Product line code	Kind of business and product line	Establishments with the product line		Product line receipts			Response coverage ² (percent)
			Number	Total receipts (\$1,000)	Amount ¹ (\$1,000)	As percent of total receipts of—		
						Establishments with the product line	All establishments ¹	
5171		Wired telecommunications carriers—Con.						
	39000	Merchandise sales	Q	Q	40 505	Q	Z	83.9
	39041	Sale of other merchandise, not specified by type	Q	Q	40 505	Q	Z	X
	39500	All other receipts	Q	Q	8 698 973	Q	3.7	83.9
	39534	All other receipts	Q	Q	8 698 973	Q	3.7	X
51711		Wired telecommunications carriers	27 891	X	238 262 752	X	100.0	83.9
	31730	Mailing lists, rental or sale	Q	Q	2 383	Q	Z	X
	32380	Multichannel programming distribution services (analog and digital)	Q	Q	312 124	Q	.1	X
	32420	Carrier services, including network access services to other telecommunication carriers	Q	Q	56 115 643	Q	23.6	X
	32430	Basic fixed local telephony - Residential	Q	Q	38 510 409	Q	16.2	X
	32440	Basic fixed local telephony - Business	Q	Q	28 803 584	Q	12.1	X
	32450	Basic fixed local telephony - Public	Q	Q	8 770 452	Q	3.7	X
	32460	Calling features, including call waiting, caller ID, voice mail - Fixed telephony	Q	Q	12 878 102	Q	5.4	83.4
	32461	Residential	Q	Q	9 671 455	Q	4.1	X
	32462	Business	Q	Q	3 206 647	Q	1.3	X
	32470	Basic fixed long distance telephony - Outbound - Residential	Q	Q	22 978 060	Q	9.6	X
	32480	Basic fixed long distance telephony - Outbound - Business	Q	Q	17 929 272	Q	7.5	50.9
	32481	Switched access outbound - Intrastate	Q	Q	3 520 771	Q	1.5	X
	32482	Switched access outbound - Interstate	Q	Q	6 241 358	Q	2.6	X
	32483	Switched access outbound - International	Q	Q	1 924 349	Q	.8	X
	32484	Special access outbound - Intrastate	Q	Q	1 870 920	Q	.8	X
	32485	Special access outbound - Interstate	Q	Q	4 306 432	Q	1.8	X
	32486	Special access outbound - International	Q	Q	65 442	Q	Z	X
	32490	Basic fixed long distance telephony - Outbound - Public	Q	Q	1 248 497	Q	.5	X
	32500	Basic fixed long distance telephony - Inbound	Q	Q	6 888 176	Q	2.9	45.7
	32510	Basic fixed all distance telephony	Q	Q	1 167 487	Q	.5	X
	32520	Private network services	Q	Q	7 469 537	Q	3.1	61.2
	32521	Intrastate toll service	Q	Q	1 340 035	Q	.6	X
	32522	Interstate toll service	Q	Q	5 408 916	Q	2.3	X
	32523	International toll service	Q	Q	720 586	Q	.3	X
	32530	Data transmission services	Q	Q	6 199 597	Q	2.6	X
	32540	Mobile local access and use ³	Q	Q	100 070	Q	Z	X
	32550	Calling features, including call waiting, caller ID, voice mail - Mobile telephony ³	Q	Q	9 531	Q	Z	X
	32560	Mobile long distance telephony ³	Q	Q	73 861	Q	Z	X
	32570	Mobile all distance telephony ³	Q	Q	9 531	Q	Z	X
	32580	Messaging (paging) services ³	Q	Q	131 045	Q	.1	X
	32600	Other telecommunication services, including telegraph, audio conferencing, telex, etc.	Q	Q	3 190 338	Q	1.3	X
	32610	Telecommunications network installation services	Q	Q	1 091 243	Q	.5	X
	32620	Telecommunications equipment sales	Q	Q	2 253 966	Q	.9	X
	32630	Telecommunications equipment rental, including leasing	Q	Q	652 840	Q	.3	X
	32640	Telecommunications equipment maintenance	Q	Q	1 451 020	Q	.6	X
	32650	Sale of directory advertising space - print, not specified by type	Q	Q	1 165 105	Q	.5	X
	32710	Internet backbone services	Q	Q	2 678 073	Q	1.1	X
	35100	Computer network design and development services	Q	Q	383 603	Q	.2	82.9
	35102	Computer network design and development services, other than security	Q	Q	383 603	Q	.2	X
	35550	Internet access services	Q	Q	7 059 725	Q	3.0	66.8
	35551	Narrowband	Q	Q	1 455 786	Q	.6	X
	35552	Broadband	Q	Q	5 603 939	Q	2.4	X
	39000	Merchandise sales	Q	Q	40 505	Q	Z	83.9
	39041	Sale of other merchandise, not specified by type	Q	Q	40 505	Q	Z	X
	39500	All other receipts	Q	Q	8 698 973	Q	3.7	83.9
	39534	All other receipts	Q	Q	8 698 973	Q	3.7	X
51710		Wired telecommunications carriers	27 891	X	238 262 752	X	100.0	83.9
	31730	Mailing lists, rental or sale	Q	Q	2 383	Q	Z	X
	32380	Multichannel programming distribution services (analog and digital)	Q	Q	312 124	Q	.1	X
	32420	Carrier services, including network access services to other telecommunication carriers	Q	Q	56 115 643	Q	23.6	X
	32430	Basic fixed local telephony - Residential	Q	Q	38 510 409	Q	16.2	X
	32440	Basic fixed local telephony - Business	Q	Q	28 803 584	Q	12.1	X
	32450	Basic fixed local telephony - Public	Q	Q	8 770 452	Q	3.7	X
	32460	Calling features, including call waiting, caller ID, voice mail - Fixed telephony	Q	Q	12 878 102	Q	5.4	83.4
	32461	Residential	Q	Q	9 671 455	Q	4.1	X
	32462	Business	Q	Q	3 206 647	Q	1.3	X
	32470	Basic fixed long distance telephony - Outbound - Residential	Q	Q	22 978 060	Q	9.6	X
	32480	Basic fixed long distance telephony - Outbound - Business	Q	Q	17 929 272	Q	7.5	50.9
	32481	Switched access outbound - Intrastate	Q	Q	3 520 771	Q	1.5	X
	32482	Switched access outbound - Interstate	Q	Q	6 241 358	Q	2.6	X
	32483	Switched access outbound - International	Q	Q	1 924 349	Q	.8	X
	32484	Special access outbound - Intrastate	Q	Q	1 870 920	Q	.8	X
	32485	Special access outbound - Interstate	Q	Q	4 306 432	Q	1.8	X
	32486	Special access outbound - International	Q	Q	65 442	Q	Z	X
	32490	Basic fixed long distance telephony - Outbound - Public	Q	Q	1 248 497	Q	.5	X
	32500	Basic fixed long distance telephony - Inbound	Q	Q	6 888 176	Q	2.9	45.7
	32510	Basic fixed all distance telephony	Q	Q	1 167 487	Q	.5	X

See footnotes at end of table.

Table 3. Product Lines by Kind of Business for the United States: 2002—Con.

[These data are preliminary and are subject to change; they will be superseded by data released in later reports. Includes only establishments of firms with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see note at end of table. Enterprise support establishments are included. Because of this, comparability to 1997 Economic Census data may be limited. See introductory text for an explanation of the treatment of enterprise support establishments in the 2002 Economic Census compared to the 1997 Economic Census.]

2002 NAICS code	2002 Product line code	Kind of business and product line	Establishments with the product line		Product line receipts			Response coverage ² (percent)
			Number	Total receipts (\$1,000)	Amount ¹ (\$1,000)	As percent of total receipts of—		
						Establishments with the product line	All establishments ¹	
517110		Wired telecommunications carriers—Con.						
	32520	Private network services	Q	Q	7 469 537	Q	3.1	61.2
	32521	Intrastate toll service	Q	Q	1 340 035	Q	.6	X
	32522	Interstate toll service	Q	Q	5 408 916	Q	2.3	X
	32523	International toll service	Q	Q	720 586	Q	.3	X
	32530	Data transmission services	Q	Q	6 199 597	Q	2.6	X
	32540	Mobile local access and use ³	Q	Q	100 070	Q	Z	X
	32550	Calling features, including call waiting, caller ID, voice mail - Mobile telephony ³	Q	Q	9 531	Q	Z	X
	32560	Mobile long distance telephony ³	Q	Q	73 861	Q	Z	X
	32570	Mobile all distance telephony ³	Q	Q	9 531	Q	Z	X
	32580	Messaging (paging) services ³	Q	Q	131 045	Q	.1	X
	32600	Other telecommunication services, including telegraph, audio conferencing, telex, etc.	Q	Q	3 190 338	Q	1.3	X
	32610	Telecommunications network installation services	Q	Q	1 091 243	Q	.5	X
	32620	Telecommunications equipment sales	Q	Q	2 253 966	Q	.9	X
	32630	Telecommunications equipment rental, including leasing	Q	Q	652 840	Q	.3	X
	32640	Telecommunications equipment maintenance	Q	Q	1 451 020	Q	.6	X
	32650	Sale of directory advertising space - print, not specified by type	Q	Q	1 165 105	Q	.5	X
	32710	Internet backbone services	Q	Q	2 678 073	Q	1.1	X
	35100	Computer network design and development services	Q	Q	383 603	Q	.2	82.9
	35102	Computer network design and development services, other than security	Q	Q	383 603	Q	.2	X
	35550	Internet access services	Q	Q	7 059 725	Q	3.0	66.8
	35551	Narrowband	Q	Q	1 455 786	Q	.6	X
	35552	Broadband	Q	Q	5 603 939	Q	2.4	X
	39000	Merchandise sales	Q	Q	40 505	Q	Z	83.9
	39041	Sale of other merchandise, not specified by type	Q	Q	40 505	Q	Z	X
	39500	All other receipts	Q	Q	8 698 973	Q	3.7	83.9
	39534	All other receipts	Q	Q	8 698 973	Q	3.7	X
5172		Wireless telecommunications carriers (except satellite)	11 175	X	100 106 033	X	100.0	91.5
	32380	Multichannel programming distribution services (analog and digital)	Q	Q	7 325	Q	Z	X
	32420	Carrier services, including network access services to other telecommunication carriers	Q	Q	2 914 739	Q	2.9	X
	32430	Basic fixed local telephony - Residential	Q	Q	33 189	Q	Z	X
	32440	Basic fixed local telephony - Business	Q	Q	24 330	Q	Z	X
	32460	Calling features, including call waiting, caller ID, voice mail - Fixed telephony	Q	Q	3 889	Q	Z	90.8
	32461	Residential	Q	Q	3 307	Q	Z	X
	32462	Business	Q	Q	582	Q	Z	X
	32470	Basic fixed long distance telephony - Outbound - Residential	Q	Q	1 652	Q	Z	X
	32480	Basic fixed long distance telephony - Outbound - Business	Q	Q	6 133	Q	Z	90.9
	32481	Switched access outbound - Intrastate	Q	Q	3 046	Q	Z	X
	32482	Switched access outbound - Interstate	Q	Q	2 937	Q	Z	X
	32483	Switched access outbound - International	Q	Q	85	Q	Z	X
	32500	Basic fixed long distance telephony - Inbound	Q	Q	34 969	Q	Z	91.5
	32510	Basic fixed all distance telephony	Q	Q	3 882	Q	Z	X
	32520	Private network services	Q	Q	6 853	Q	Z	89.5
	32521	Intrastate toll service	Q	Q	4 028	Q	Z	X
	32522	Interstate toll service	Q	Q	2 071	Q	Z	X
	32530	Data transmission services	Q	Q	14 558	Q	Z	X
	32540	Mobile local access and use ³	Q	Q	63 009 973	Q	62.9	X
	32550	Calling features, including call waiting, caller ID, voice mail - Mobile telephony ³	Q	Q	2 696 488	Q	2.7	X
	32560	Mobile long distance telephony ³	Q	Q	6 259 804	Q	6.3	X
	32570	Mobile all distance telephony ³	Q	Q	10 162 666	Q	10.2	X
	32580	Messaging (paging) services ³	Q	Q	2 871 182	Q	2.9	X
	32590	Mobile dispatch services ³	Q	Q	143 945	Q	.1	X
	32600	Other telecommunication services, including telegraph, audio conferencing, telex, etc.	Q	Q	4 567 912	Q	4.6	X
	32610	Telecommunications network installation services	Q	Q	176 166	Q	.2	X
	32620	Telecommunications equipment sales	Q	Q	5 717 544	Q	5.7	X
	32630	Telecommunications equipment rental, including leasing	Q	Q	170 519	Q	.2	X
	32640	Telecommunications equipment maintenance	Q	Q	143 116	Q	.1	X
	35100	Computer network design and development services	Q	Q	2 912	Q	Z	91.5
	35102	Computer network design and development services, other than security	Q	Q	2 912	Q	Z	X
	35550	Internet access services	Q	Q	199 563	Q	.2	X
	39000	Merchandise sales	Q	Q	45 051	Q	Z	90.6
	39041	Sale of other merchandise, not specified by type	Q	Q	45 051	Q	Z	X
	39500	All other receipts	Q	Q	883 553	Q	.9	91.5
	39534	All other receipts	Q	Q	883 553	Q	.9	X
51721		Wireless telecommunications carriers (except satellite)	11 175	X	100 106 033	X	100.0	91.5
	32380	Multichannel programming distribution services (analog and digital)	Q	Q	7 325	Q	Z	X
	32420	Carrier services, including network access services to other telecommunication carriers	Q	Q	2 914 739	Q	2.9	X
	32430	Basic fixed local telephony - Residential	Q	Q	33 189	Q	Z	X
	32440	Basic fixed local telephony - Business	Q	Q	24 330	Q	Z	X
	32460	Calling features, including call waiting, caller ID, voice mail - Fixed telephony	Q	Q	3 889	Q	Z	90.8
	32461	Residential	Q	Q	3 307	Q	Z	X
	32462	Business	Q	Q	582	Q	Z	X

See footnotes at end of table.

Table 3. Product Lines by Kind of Business for the United States: 2002—Con.

[These data are preliminary and are subject to change; they will be superseded by data released in later reports. Includes only establishments of firms with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see note at end of table. Enterprise support establishments are included. Because of this, comparability to 1997 Economic Census data may be limited. See introductory text for an explanation of the treatment of enterprise support establishments in the 2002 Economic Census compared to the 1997 Economic Census.]

2002 NAICS code	2002 Product line code	Kind of business and product line	Establishments with the product line		Product line receipts			Response coverage ² (percent)
			Number	Total receipts (\$1,000)	Amount ¹ (\$1,000)	As percent of total receipts of—		
						Establishments with the product line	All establishments ¹	
51721		Wireless telecommunications carriers (except satellite)—Con.						
	32470	Basic fixed long distance telephony - Outbound - Residential	Q	Q	1 652	Q	Z	X
	32480	Basic fixed long distance telephony - Outbound - Business	Q	Q	6 133	Q	Z	90.9
	32481	Switched access outbound - Intrastate	Q	Q	3 046	Q	Z	X
	32482	Switched access outbound - Interstate	Q	Q	2 937	Q	Z	X
	32483	Switched access outbound - International	Q	Q	85	Q	Z	X
	32500	Basic fixed long distance telephony - Inbound	Q	Q	34 969	Q	Z	91.5
	32510	Basic fixed all distance telephony	Q	Q	3 882	Q	Z	X
	32520	Private network services	Q	Q	6 853	Q	Z	89.5
	32521	Intrastate toll service	Q	Q	4 028	Q	Z	X
	32522	Interstate toll service	Q	Q	2 071	Q	Z	X
	32530	Data transmission services	Q	Q	14 558	Q	Z	X
	32540	Mobile local access and use ³	Q	Q	63 009 973	Q	62.9	X
	32550	Calling features, including call waiting, caller ID, voice mail - Mobile telephony ³	Q	Q	2 696 488	Q	2.7	X
	32560	Mobile long distance telephony ³	Q	Q	6 259 804	Q	6.3	X
	32570	Mobile all distance telephony ³	Q	Q	10 162 666	Q	10.2	X
	32580	Messaging (paging) services ³	Q	Q	2 871 182	Q	2.9	X
	32590	Mobile dispatch services ³	Q	Q	143 945	Q	.1	X
	32600	Other telecommunication services, including telegraph, audio conferencing, telex, etc.	Q	Q	4 567 912	Q	4.6	X
	32610	Telecommunications network installation services	Q	Q	176 166	Q	.2	X
	32620	Telecommunications equipment sales	Q	Q	5 717 544	Q	5.7	X
	32630	Telecommunications equipment rental, including leasing	Q	Q	170 519	Q	.2	X
	32640	Telecommunications equipment maintenance	Q	Q	143 116	Q	.1	X
	35100	Computer network design and development services	Q	Q	2 912	Q	.1	91.5
	35102	Computer network design and development services, other than security	Q	Q	2 912	Q	Z	X
	35550	Internet access services	Q	Q	199 563	Q	.2	X
	39000	Merchandise sales	Q	Q	45 051	Q	Z	90.6
	39041	Sale of other merchandise, not specified by type	Q	Q	45 051	Q	Z	X
	39500	All other receipts	Q	Q	883 553	Q	.9	91.5
	39534	All other receipts	Q	Q	883 553	Q	.9	X
517211		Paging	1 664	X	2 961 493	X	100.0	54.1
	32380	Multichannel programming distribution services (analog and digital)	Q	Q	4 413	Q	.1	X
	32420	Carrier services, including network access services to other telecommunication carriers	Q	Q	8 707	Q	.3	X
	32430	Basic fixed local telephony - Residential	Q	Q	2 132	Q	.1	X
	32440	Basic fixed local telephony - Business	Q	Q	1 037	Q	Z	X
	32460	Calling features, including call waiting, caller ID, voice mail - Fixed telephony	Q	Q	977	Q	Z	41.7
	32461	Residential	Q	Q	701	Q	Z	X
	32470	Basic fixed long distance telephony - Outbound - Residential	Q	Q	681	Q	Z	X
	32480	Basic fixed long distance telephony - Outbound - Business	Q	Q	2 251	Q	.1	54.1
	32481	Switched access outbound - Intrastate	Q	Q	1 213	Q	Z	X
	32482	Switched access outbound - Interstate	Q	Q	1 038	Q	Z	X
	32500	Basic fixed long distance telephony - Inbound	Q	Q	30	Q	Z	54.1
	32540	Mobile local access and use ³	Q	Q	11 609	Q	.4	X
	32550	Calling features, including call waiting, caller ID, voice mail - Mobile telephony ³	Q	Q	652	Q	Z	X
	32560	Mobile long distance telephony ³	Q	Q	533	Q	Z	X
	32570	Mobile all distance telephony ³	Q	Q	1 273	Q	Z	X
	32580	Messaging (paging) services ³	Q	Q	2 591 671	Q	87.5	X
	32590	Mobile dispatch services ³	Q	Q	6 130	Q	.2	X
	32600	Other telecommunication services, including telegraph, audio conferencing, telex, etc.	Q	Q	10 424	Q	.4	X
	32610	Telecommunications network installation services	Q	Q	4 383	Q	.1	X
	32620	Telecommunications equipment sales	Q	Q	110 875	Q	3.7	X
	32630	Telecommunications equipment rental, including leasing	Q	Q	89 671	Q	3.0	X
	32640	Telecommunications equipment maintenance	Q	Q	90 708	Q	3.1	X
	35550	Internet access services	Q	Q	2 547	Q	.1	54.1
	35551	Narrowband	Q	Q	2 045	Q	.1	X
	35552	Broadband	Q	Q	502	Q	Z	X
	39000	Merchandise sales	Q	Q	12 053	Q	.4	54.1
	39041	Sale of other merchandise, not specified by type	Q	Q	12 053	Q	.4	X
	39500	All other receipts	Q	Q	8 440	Q	.3	54.1
	39534	All other receipts	Q	Q	8 440	Q	.3	X
517212		Cellular and other wireless telecommunications	9 511	X	97 144 540	X	100.0	92.7
	32420	Carrier services, including network access services to other telecommunication carriers	Q	Q	2 906 032	Q	3.0	X
	32430	Basic fixed local telephony - Residential	Q	Q	31 057	Q	Z	X
	32440	Basic fixed local telephony - Business	Q	Q	23 293	Q	Z	X
	32460	Calling features, including call waiting, caller ID, voice mail - Fixed telephony	Q	Q	2 912	Q	Z	92.4
	32461	Residential	Q	Q	2 606	Q	Z	X
	32462	Business	Q	Q	306	Q	Z	X
	32470	Basic fixed long distance telephony - Outbound - Residential	Q	Q	971	Q	Z	X
	32480	Basic fixed long distance telephony - Outbound - Business	Q	Q	3 882	Q	Z	92.1
	32481	Switched access outbound - Intrastate	Q	Q	1 833	Q	Z	X
	32482	Switched access outbound - Interstate	Q	Q	1 899	Q	Z	X
	32483	Switched access outbound - International	Q	Q	85	Q	Z	X
	32500	Basic fixed long distance telephony - Inbound	Q	Q	34 939	Q	Z	92.7

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2002 NAICS code	2002 Product line code	Kind of business and product line	Establishments with the product line		Product line receipts			Response coverage ² (percent)
			Number	Total receipts (\$1,000)	Amount ¹ (\$1,000)	As percent of total receipts of—		
						Establishments with the product line	All establishments ¹	
517212		Cellular and other wireless telecommunications—Con.						
	32510	Basic fixed all distance telephony	Q	Q	3 882	Q	Z	X
	32520	Private network services	Q	Q	6 794	Q	Z	90.6
	32521	Intrastate toll service	Q	Q	3 999	Q	Z	X
	32530	Data transmission services	Q	Q	14 558	Q	Z	X
	32540	Mobile local access and use ³	Q	Q	62 998 364	Q	64.9	X
	32550	Calling features, including call waiting, caller ID, voice mail - Mobile telephony ³	Q	Q	2 695 836	Q	2.8	X
	32560	Mobile long distance telephony ³	Q	Q	6 259 271	Q	6.4	X
	32570	Mobile all distance telephony ³	Q	Q	10 161 393	Q	10.5	X
	32580	Messaging (paging) services ³	Q	Q	279 511	Q	.3	X
	32590	Mobile dispatch services ³	Q	Q	137 815	Q	.1	X
	32600	Other telecommunication services, including telegraph, audio conferencing, telex, etc.	Q	Q	4 557 488	Q	4.7	X
	32610	Telecommunications network installation services	Q	Q	171 783	Q	.2	X
	32620	Telecommunications equipment sales	Q	Q	5 606 669	Q	5.8	X
	32630	Telecommunications equipment rental, including leasing	Q	Q	80 848	Q	.1	X
	32640	Telecommunications equipment maintenance	Q	Q	52 408	Q	.1	X
	35100	Computer network design and development services	Q	Q	2 912	Q	Z	92.7
	35102	Computer network design and development services, other than security	Q	Q	2 912	Q	Z	X
	35550	Internet access services	Q	Q	197 016	Q	.2	X
	39000	Merchandise sales	Q	Q	32 998	Q	Z	91.6
	39041	Sale of other merchandise, not specified by type	Q	Q	32 998	Q	Z	X
	39500	All other receipts	Q	Q	875 113	Q	.9	92.7
	39534	All other receipts	Q	Q	875 113	Q	.9	X
5173		Telecommunications resellers	2 526	X	9 390 740	X	100.0	52.5
	31730	Mailing lists, rental or sale	6	254 865	2 442	1.0	Z	X
	32380	Multichannel programming distribution services (analog and digital)	17	10 330	3 381	32.7	Z	X
	32420	Carrier services, including network access services to other telecommunication carriers	402	3 951 248	497 902	12.6	5.3	X
	32430	Basic fixed local telephony - Residential	792	3 860 439	1 151 597	29.8	12.3	X
	32440	Basic fixed local telephony - Business	699	3 840 719	739 716	19.3	7.9	X
	32450	Basic fixed local telephony - Public	132	89 118	50 899	57.1	.5	X
	32460	Calling features, including call waiting, caller ID, voice mail - Fixed telephony	473	1 036 268	80 292	7.7	.9	51.3
	32461	Residential	420	929 429	26 771	2.9	.3	X
	32462	Business	331	944 040	53 521	5.7	.6	X
	32470	Basic fixed long distance telephony - Outbound - Residential	754	5 684 497	2 460 212	43.3	26.2	X
	32480	Basic fixed long distance telephony - Outbound - Business	1 040	3 435 790	1 335 188	38.9	14.2	51.7
	32481	Switched access outbound - Intrastate	882	2 999 239	446 740	14.9	4.8	X
	32482	Switched access outbound - Interstate	857	2 767 460	372 184	13.4	4.0	X
	32483	Switched access outbound - International	643	2 571 895	299 817	11.7	3.2	X
	32484	Special access outbound - Intrastate	284	941 716	28 506	3.0	.3	X
	32485	Special access outbound - Interstate	290	821 497	168 795	20.5	1.8	X
	32486	Special access outbound - International	176	563 366	19 146	3.4	.2	X
	32490	Basic fixed long distance telephony - Outbound - Public	171	291 113	193 076	66.3	2.1	X
	32500	Basic fixed long distance telephony - Inbound	677	5 097 294	429 067	8.4	4.6	52.4
	32510	Basic fixed all distance telephony	220	606 360	182 088	30.0	1.9	X
	32520	Private network services	154	1 999 570	59 538	3.0	.6	52.5
	32521	Intrastate toll service	110	1 926 246	36 005	1.9	.4	X
	32522	Interstate toll service	61	139 930	21 274	15.2	.2	X
	32523	International toll service	33	53 848	2 259	4.2	Z	X
	32530	Data transmission services	149	523 346	39 159	7.5	.4	X
	32540	Mobile local access and use ³	363	2 297 257	278 251	12.1	3.0	X
	32550	Calling features, including call waiting, caller ID, voice mail - Mobile telephony ³	182	119 544	3 944	3.3	Z	X
	32560	Mobile long distance telephony ³	116	140 861	7 888	5.6	.1	X
	32570	Mobile all distance telephony ³	149	250 827	154 855	61.7	1.6	X
	32580	Messaging (paging) services ³	396	306 044	30 144	9.9	.3	X
	32600	Other telecommunication services, including telegraph, audio conferencing, telex, etc.	303	1 902 000	951 385	50.0	10.1	X
	32610	Telecommunications network installation services	154	427 279	10 987	2.6	.1	X
	32620	Telecommunications equipment sales	589	1 047 443	136 355	13.0	1.5	X
	32630	Telecommunications equipment rental, including leasing	110	155 980	12 208	7.8	.1	X
	32640	Telecommunications equipment maintenance	116	278 154	3 287	1.2	Z	X
	32650	Sale of directory advertising space - print, not specified by type	110	22 632	188	.8	Z	X
	32710	Internet backbone services	50	109 872	9 391	8.5	.1	X
	35100	Computer network design and development services	44	69 961	9 203	13.2	.1	52.5
	35102	Computer network design and development services, other than security	44	69 961	9 203	13.2	.1	X
	35550	Internet access services	325	2 552 028	330 557	13.0	3.5	52.5
	35551	Narrowband	123	356 033	19 248	5.4	.2	X
	35552	Broadband	275	2 334 161	311 309	13.3	3.3	X
	39000	Merchandise sales	215	318 064	13 335	4.2	.1	52.5
	39041	Sale of other merchandise, not specified by type	215	318 064	13 335	4.2	.1	X
	39500	All other receipts	556	4 774 910	214 205	4.5	2.3	52.5
	39534	All other receipts	556	4 774 910	214 205	4.5	2.3	X

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2002 NAICS code	2002 Product line code	Kind of business and product line	Establishments with the product line		Product line receipts			Response coverage ² (percent)
			Number	Total receipts (\$1,000)	Amount ¹ (\$1,000)	As percent of total receipts of—		
						Establishments with the product line	All establishments ¹	
51731		Telecommunications resellers	2 526	X	9 390 740	X	100.0	52.5
	31730	Mailing lists, rental or sale	6	254 865	2 442	1.0	Z	X
	32380	Multichannel programming distribution services (analog and digital)	17	10 330	3 381	32.7	Z	X
	32420	Carrier services, including network access services to other telecommunication carriers	402	3 951 248	497 902	12.6	5.3	X
	32430	Basic fixed local telephony - Residential	792	3 860 439	1 151 597	29.8	12.3	X
	32440	Basic fixed local telephony - Business	699	3 840 719	739 716	19.3	7.9	X
	32450	Basic fixed local telephony - Public	132	89 118	50 899	57.1	.5	X
	32460	Calling features, including call waiting, caller ID, voice mail - Fixed telephony	473	1 036 268	80 292	7.7	.9	51.3
	32461	Residential	420	929 429	26 771	2.9	.3	X
	32462	Business	331	944 040	53 521	5.7	.6	X
	32470	Basic fixed long distance telephony - Outbound - Residential	754	5 684 497	2 460 212	43.3	26.2	X
	32480	Basic fixed long distance telephony - Outbound - Business	1 040	3 435 790	1 335 188	38.9	14.2	51.7
	32481	Switched access outbound - Intrastate	882	2 999 239	446 740	14.9	4.8	X
	32482	Switched access outbound - Interstate	857	2 767 460	372 184	13.4	4.0	X
	32483	Switched access outbound - International	643	2 571 895	299 817	11.7	3.2	X
	32484	Special access outbound - Intrastate	284	941 716	28 506	3.0	.3	X
	32485	Special access outbound - Interstate	290	821 497	168 795	20.5	1.8	X
	32486	Special access outbound - International	176	563 366	19 146	3.4	.2	X
	32490	Basic fixed long distance telephony - Outbound - Public	171	291 113	193 076	66.3	2.1	X
	32500	Basic fixed long distance telephony - Inbound	677	5 097 294	429 067	8.4	4.6	52.4
	32510	Basic fixed all distance telephony	220	606 360	182 088	30.0	1.9	X
	32520	Private network services	154	1 999 570	59 538	3.0	.6	52.5
	32521	Intrastate toll service	110	1 926 246	36 005	1.9	.4	X
	32522	Interstate toll service	61	139 930	21 274	15.2	.2	X
	32523	International toll service	33	53 848	2 259	4.2	Z	X
	32530	Data transmission services	149	523 346	39 159	7.5	.4	X
	32540	Mobile local access and use ³	363	2 297 257	278 251	12.1	3.0	X
	32550	Calling features, including call waiting, caller ID, voice mail - Mobile telephony ³	182	119 544	3 944	3.3	Z	X
	32560	Mobile long distance telephony ³	116	140 861	7 888	5.6	.1	X
	32570	Mobile all distance telephony ³	149	250 827	154 855	61.7	1.6	X
	32580	Messaging (paging) services ³	396	306 044	30 144	9.9	.3	X
	32600	Other telecommunication services, including telegraph, audio conferencing, telex, etc.	303	1 902 000	951 385	50.0	10.1	X
	32610	Telecommunications network installation services	154	427 279	10 987	2.6	.1	X
	32620	Telecommunications equipment sales	589	1 047 443	136 355	13.0	1.5	X
	32630	Telecommunications equipment rental, including leasing	110	155 980	12 208	7.8	.1	X
	32640	Telecommunications equipment maintenance	116	278 154	3 287	1.2	Z	X
	32650	Sale of directory advertising space - print, not specified by type	110	22 632	188	.8	Z	X
	32710	Internet backbone services	50	109 872	9 391	8.5	.1	X
	35100	Computer network design and development services	44	69 961	9 203	13.2	.1	52.5
	35102	Computer network design and development services, other than security	44	69 961	9 203	13.2	.1	X
	35550	Internet access services	325	2 552 028	330 557	13.0	3.5	52.5
	35551	Narrowband	123	356 033	19 248	5.4	.2	X
	35552	Broadband	275	2 334 161	311 309	13.3	3.3	X
	39000	Merchandise sales	215	318 064	13 335	4.2	.1	52.5
	39041	Sale of other merchandise, not specified by type	215	318 064	13 335	4.2	.1	X
	39500	All other receipts	556	4 774 910	214 205	4.5	2.3	52.5
	39534	All other receipts	556	4 774 910	214 205	4.5	2.3	X
517310		Telecommunications resellers	2 526	X	9 390 740	X	100.0	52.5
	31730	Mailing lists, rental or sale	6	254 865	2 442	1.0	Z	X
	32380	Multichannel programming distribution services (analog and digital)	17	10 330	3 381	32.7	Z	X
	32420	Carrier services, including network access services to other telecommunication carriers	402	3 951 248	497 902	12.6	5.3	X
	32430	Basic fixed local telephony - Residential	792	3 860 439	1 151 597	29.8	12.3	X
	32440	Basic fixed local telephony - Business	699	3 840 719	739 716	19.3	7.9	X
	32450	Basic fixed local telephony - Public	132	89 118	50 899	57.1	.5	X
	32460	Calling features, including call waiting, caller ID, voice mail - Fixed telephony	473	1 036 268	80 292	7.7	.9	51.3
	32461	Residential	420	929 429	26 771	2.9	.3	X
	32462	Business	331	944 040	53 521	5.7	.6	X
	32470	Basic fixed long distance telephony - Outbound - Residential	754	5 684 497	2 460 212	43.3	26.2	X
	32480	Basic fixed long distance telephony - Outbound - Business	1 040	3 435 790	1 335 188	38.9	14.2	51.7
	32481	Switched access outbound - Intrastate	882	2 999 239	446 740	14.9	4.8	X
	32482	Switched access outbound - Interstate	857	2 767 460	372 184	13.4	4.0	X
	32483	Switched access outbound - International	643	2 571 895	299 817	11.7	3.2	X
	32484	Special access outbound - Intrastate	284	941 716	28 506	3.0	.3	X
	32485	Special access outbound - Interstate	290	821 497	168 795	20.5	1.8	X
	32486	Special access outbound - International	176	563 366	19 146	3.4	.2	X
	32490	Basic fixed long distance telephony - Outbound - Public	171	291 113	193 076	66.3	2.1	X
	32500	Basic fixed long distance telephony - Inbound	677	5 097 294	429 067	8.4	4.6	52.4
	32510	Basic fixed all distance telephony	220	606 360	182 088	30.0	1.9	X
	32520	Private network services	154	1 999 570	59 538	3.0	.6	52.5
	32521	Intrastate toll service	110	1 926 246	36 005	1.9	.4	X
	32522	Interstate toll service	61	139 930	21 274	15.2	.2	X
	32523	International toll service	33	53 848	2 259	4.2	Z	X
	32530	Data transmission services	149	523 346	39 159	7.5	.4	X
	32540	Mobile local access and use ³	363	2 297 257	278 251	12.1	3.0	X
	32550	Calling features, including call waiting, caller ID, voice mail - Mobile telephony ³	182	119 544	3 944	3.3	Z	X
	32560	Mobile long distance telephony ³	116	140 861	7 888	5.6	.1	X

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			Number	Total receipts (\$1,000)	Amount ¹ (\$1,000)	As percent of total receipts of—		
						Establishments with the product line	All establishments ¹	
517310		Telecommunications resellers—Con.						
	32570	Mobile all distance telephony ³	149	250 827	154 855	61.7	1.6	X
	32580	Messaging (paging) services ³	396	306 044	30 144	9.9	.3	X
	32600	Other telecommunication services, including telegraph, audio conferencing, telex, etc.	303	1 902 000	951 385	50.0	10.1	X
	32610	Telecommunications network installation services	154	427 279	10 987	2.6	.1	X
	32620	Telecommunications equipment sales	589	1 047 443	136 355	13.0	1.5	X
	32630	Telecommunications equipment rental, including leasing	110	155 980	12 208	7.8	.1	X
	32640	Telecommunications equipment maintenance	116	278 154	3 287	1.2	Z	X
	32650	Sale of directory advertising space - print, not specified by type	110	22 632	188	.8	Z	X
	32710	Internet backbone services	50	109 872	9 391	8.5	.1	X
	35100	Computer network design and development services	44	69 961	9 203	13.2	.1	52.5
	35102	Computer network design and development services, other than security	44	69 961	9 203	13.2	.1	X
	35550	Internet access services	325	2 552 028	330 557	13.0	3.5	52.5
	35551	Narrowband	123	356 033	19 248	5.4	.2	X
	35552	Broadband	275	2 334 161	311 309	13.3	3.3	X
	39000	Merchandise sales	215	318 064	13 335	4.2	.1	52.5
	39041	Sale of other merchandise, not specified by type	215	318 064	13 335	4.2	.1	X
	39500	All other receipts	556	4 774 910	214 205	4.5	2.3	52.5
	39534	All other receipts	556	4 774 910	214 205	4.5	2.3	X
5174		Satellite telecommunications	634	X	5 728 681	X	100.0	31.5
	31730	Mailing lists, rental or sale	9	10 884	1 547	14.2	Z	X
	32380	Multichannel programming distribution services (analog and digital)	18	31 393	24 461	77.9	.4	X
	32420	Carrier services, including network access services to other telecommunication carriers	435	4 618 062	3 721 045	80.6	65.0	X
	32480	Basic fixed long distance telephony - Outbound - Business	9	458	401	87.6	Z	31.5
	32481	Switched access outbound - Intrastate	9	458	50	10.9	Z	X
	32482	Switched access outbound - Interstate	9	458	275	60.0	Z	X
	32483	Switched access outbound - International	9	458	76	16.6	Z	X
	32500	Basic fixed long distance telephony - Inbound	9	6 359	2 521	39.6	Z	31.5
	32510	Basic fixed all distance telephony	9	54 537	23 717	43.5	.4	X
	32520	Private network services	109	1 887 887	561 572	29.7	9.8	X
	32530	Data transmission services	154	1 026 007	748 838	73.0	13.1	X
	32570	Mobile all distance telephony ³	9	98 075	49 037	50.0	.9	X
	32600	Other telecommunication services, including telegraph, audio conferencing, telex, etc.	36	613 141	122 248	19.9	2.1	X
	32610	Telecommunications network installation services	27	285 861	23 946	8.4	.4	X
	32620	Telecommunications equipment sales	100	586 216	90 740	15.5	1.6	X
	32630	Telecommunications equipment rental, including leasing	27	73 041	11 228	15.4	.2	X
	32710	Internet backbone services	36	937 842	159 483	17.0	2.8	X
	35100	Computer network design and development services	9	82 493	8 249	10.0	.1	31.5
	35102	Computer network design and development services, other than security	9	82 493	8 249	10.0	.1	X
	35550	Internet access services	27	205 717	54 020	26.3	.9	31.5
	35551	Narrowband	9	11 734	10	.1	Z	X
	35552	Broadband	27	205 717	54 010	26.3	.9	X
	39500	All other receipts	91	2 008 132	125 628	6.3	2.2	31.5
	39534	All other receipts	91	2 008 132	125 628	6.3	2.2	X
51741		Satellite telecommunications	634	X	5 728 681	X	100.0	31.5
	31730	Mailing lists, rental or sale	9	10 884	1 547	14.2	Z	X
	32380	Multichannel programming distribution services (analog and digital)	18	31 393	24 461	77.9	.4	X
	32420	Carrier services, including network access services to other telecommunication carriers	435	4 618 062	3 721 045	80.6	65.0	X
	32480	Basic fixed long distance telephony - Outbound - Business	9	458	401	87.6	Z	31.5
	32481	Switched access outbound - Intrastate	9	458	50	10.9	Z	X
	32482	Switched access outbound - Interstate	9	458	275	60.0	Z	X
	32483	Switched access outbound - International	9	458	76	16.6	Z	X
	32500	Basic fixed long distance telephony - Inbound	9	6 359	2 521	39.6	Z	31.5
	32510	Basic fixed all distance telephony	9	54 537	23 717	43.5	.4	X
	32520	Private network services	109	1 887 887	561 572	29.7	9.8	X
	32530	Data transmission services	154	1 026 007	748 838	73.0	13.1	X
	32570	Mobile all distance telephony ³	9	98 075	49 037	50.0	.9	X
	32600	Other telecommunication services, including telegraph, audio conferencing, telex, etc.	36	613 141	122 248	19.9	2.1	X
	32610	Telecommunications network installation services	27	285 861	23 946	8.4	.4	X
	32620	Telecommunications equipment sales	100	586 216	90 740	15.5	1.6	X
	32630	Telecommunications equipment rental, including leasing	27	73 041	11 228	15.4	.2	X
	32710	Internet backbone services	36	937 842	159 483	17.0	2.8	X
	35100	Computer network design and development services	9	82 493	8 249	10.0	.1	31.5
	35102	Computer network design and development services, other than security	9	82 493	8 249	10.0	.1	X
	35550	Internet access services	27	205 717	54 020	26.3	.9	31.5
	35551	Narrowband	9	11 734	10	.1	Z	X
	35552	Broadband	27	205 717	54 010	26.3	.9	X
	39500	All other receipts	91	2 008 132	125 628	6.3	2.2	31.5
	39534	All other receipts	91	2 008 132	125 628	6.3	2.2	X

See footnotes at end of table.

Table 3. Product Lines by Kind of Business for the United States: 2002—Con.

[These data are preliminary and are subject to change; they will be superseded by data released in later reports. Includes only establishments of firms with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see note at end of table. Enterprise support establishments are included. Because of this, comparability to 1997 Economic Census data may be limited. See introductory text for an explanation of the treatment of enterprise support establishments in the 2002 Economic Census compared to the 1997 Economic Census.]

2002 NAICS code	2002 Product line code	Kind of business and product line	Establishments with the product line		Product line receipts			Response coverage ² (percent)
			Number	Total receipts (\$1,000)	Amount ¹ (\$1,000)	As percent of total receipts of—		
						Establishments with the product line	All establishments ¹	
517410		Satellite telecommunications	634	X	5 728 681	X	100.0	31.5
	31730	Mailing lists, rental or sale	9		10 884	14.2	Z	X
	32380	Multichannel programming distribution services (analog and digital)	18		31 393	77.9	.4	X
	32420	Carrier services, including network access services to other telecommunication carriers	435		4 618 062	80.6	65.0	X
	32480	Basic fixed long distance telephony - Outbound - Business	9		458	87.6	Z	31.5
	32481	Switched access outbound - Intrastate	9		458	10.9	Z	X
	32482	Switched access outbound - Interstate	9		458	60.0	Z	X
	32483	Switched access outbound - International	9		458	16.6	Z	X
	32500	Basic fixed long distance telephony - Inbound	9		6 359	39.6	Z	31.5
	32510	Basic fixed all distance telephony	9		54 537	43.5	.4	X
	32520	Private network services	109		1 887 887	29.7	9.8	X
	32530	Data transmission services	154		1 026 007	748 838	73.0	13.1
	32570	Mobile all distance telephony ³	9		98 075	49 037	50.0	.9
	32600	Other telecommunication services, including telegraph, audio conferencing, telex, etc.	36		613 141	19.9	2.1	X
	32610	Telecommunications network installation services	27		285 861	23 946	8.4	.4
	32620	Telecommunications equipment sales	100		586 216	90 740	15.5	1.6
	32630	Telecommunications equipment rental, including leasing	27		73 041	11 228	15.4	.2
	32710	Internet backbone services	36		937 842	159 483	17.0	2.8
	35100	Computer network design and development services	9		82 493	8 249	10.0	.1
	35102	Computer network design and development services, other than security	9		82 493	8 249	10.0	.1
	35550	Internet access services	27		205 717	54 020	26.3	.9
	35551	Narrowband	9		11 734	.1	Z	X
	35552	Broadband	27		205 717	54 010	26.3	.9
	39500	All other receipts	91		2 008 132	125 628	6.3	2.2
	39534	All other receipts	91		2 008 132	125 628	6.3	2.2
5175		Cable and other program distribution	6 118	X	56 709 967	X	100.0	90.8
	32340	Television: Program rights	Q	Q	4 537	Q	Z	X
	32380	Multichannel programming distribution services (analog and digital)	Q	Q	43 547 018	Q	76.8	88.8
	32381	Basic programming package, including startup and reconnect fees ...	Q	Q	35 879 259	Q	63.3	X
	32382	Premium programming package	Q	Q	4 956 086	Q	8.7	X
	32383	Pay-per-view	Q	Q	2 711 673	Q	4.8	X
	32390	Air time - Program distribution networks: Advertising	Q	Q	3 242 109	Q	5.7	26.2
	32391	National and regional (net)	Q	Q	1 581 339	Q	2.8	X
	32392	Local (net)	Q	Q	1 660 770	Q	2.9	X
	32400	Cable and other program distribution: Related services	Q	Q	3 140 598	Q	5.5	52.3
	32401	Installation services, installing cable and/or outlets on customer's premise	Q	Q	415 505	Q	.7	X
	32402	Equipment rental	Q	Q	987 006	Q	1.7	X
	32403	Equipment sales, including decoders, satellite dishes, etc.	Q	Q	566 413	Q	1.0	X
	32404	Other related services	Q	Q	1 171 674	Q	2.1	X
	32410	Production and postproduction services - Television	Q	Q	1 134	Q	Z	X
	32420	Carrier services, including network access services to other telecommunication carriers	Q	Q	53 307	Q	.1	X
	32430	Basic fixed local telephony - Residential	Q	Q	534 775	Q	.9	X
	32440	Basic fixed local telephony - Business	Q	Q	21 550	Q	Z	X
	32460	Calling features, including call waiting, caller ID, voice mail - Fixed telephony	Q	Q	13 043	Q	Z	X
	32470	Basic fixed long distance telephony - Outbound - Residential	Q	Q	42 532	Q	.1	X
	32480	Basic fixed long distance telephony - Outbound - Business	Q	Q	19 848	Q	Z	X
	32500	Basic fixed long distance telephony - Inbound	Q	Q	567	Q	Z	X
	32520	Private network services	Q	Q	7 939	Q	Z	X
	32530	Data transmission services	Q	Q	1 701	Q	Z	X
	35550	Internet access services	Q	Q	4 544 170	Q	8.0	58.8
	35551	Narrowband	Q	Q	24 130	Q	Z	X
	35552	Broadband	Q	Q	4 520 040	Q	8.0	X
	39500	All other receipts	Q	Q	1 531 169	Q	2.7	87.7
	39533	All other receipts	Q	Q	1 531 169	Q	2.7	X
51751		Cable and other program distribution	6 118	X	56 709 967	X	100.0	90.8
	32340	Television: Program rights	Q	Q	4 537	Q	Z	X
	32380	Multichannel programming distribution services (analog and digital)	Q	Q	43 547 018	Q	76.8	88.8
	32381	Basic programming package, including startup and reconnect fees ...	Q	Q	35 879 259	Q	63.3	X
	32382	Premium programming package	Q	Q	4 956 086	Q	8.7	X
	32383	Pay-per-view	Q	Q	2 711 673	Q	4.8	X
	32390	Air time - Program distribution networks: Advertising	Q	Q	3 242 109	Q	5.7	26.2
	32391	National and regional (net)	Q	Q	1 581 339	Q	2.8	X
	32392	Local (net)	Q	Q	1 660 770	Q	2.9	X
	32400	Cable and other program distribution: Related services	Q	Q	3 140 598	Q	5.5	52.3
	32401	Installation services, installing cable and/or outlets on customer's premise	Q	Q	415 505	Q	.7	X
	32402	Equipment rental	Q	Q	987 006	Q	1.7	X
	32403	Equipment sales, including decoders, satellite dishes, etc.	Q	Q	566 413	Q	1.0	X
	32404	Other related services	Q	Q	1 171 674	Q	2.1	X
	32410	Production and postproduction services - Television	Q	Q	1 134	Q	Z	X
	32420	Carrier services, including network access services to other telecommunication carriers	Q	Q	53 307	Q	.1	X
	32430	Basic fixed local telephony - Residential	Q	Q	534 775	Q	.9	X
	32440	Basic fixed local telephony - Business	Q	Q	21 550	Q	Z	X

See footnotes at end of table.

Table 3. Product Lines by Kind of Business for the United States: 2002—Con.

[These data are preliminary and are subject to change; they will be superseded by data released in later reports. Includes only establishments of firms with payroll. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see note at end of table. Enterprise support establishments are included. Because of this, comparability to 1997 Economic Census data may be limited. See introductory text for an explanation of the treatment of enterprise support establishments in the 2002 Economic Census compared to the 1997 Economic Census.]

2002 NAICS code	2002 Product line code	Kind of business and product line	Establishments with the product line		Product line receipts			Response coverage ² (percent)
			Number	Total receipts (\$1,000)	Amount ¹ (\$1,000)	As percent of total receipts of—		
						Estab-lishments with the product line	All estab-lishments ¹	
51751		Cable and other program distribution—Con.						
	32460	Calling features, including call waiting, caller ID, voice mail - Fixed telephony	Q	Q	13 043	Q	Z	X
	32470	Basic fixed long distance telephony - Outbound - Residential	Q	Q	42 532	Q	.1	X
	32480	Basic fixed long distance telephony - Outbound - Business	Q	Q	19 848	Q	Z	X
	32500	Basic fixed long distance telephony - Inbound	Q	Q	567	Q	Z	X
	32520	Private network services	Q	Q	7 939	Q	Z	X
	32530	Data transmission services	Q	Q	1 701	Q	Z	X
	35550	Internet access services	Q	Q	4 544 170	Q	8.0	58.8
	35551	Narrowband	Q	Q	24 130	Q	Z	X
	35552	Broadband	Q	Q	4 520 040	Q	8.0	X
	39500	All other receipts	Q	Q	1 531 169	Q	2.7	87.7
	39533	All other receipts	Q	Q	1 531 169	Q	2.7	X
517510		Cable and other program distribution	6 118	X	56 709 967	X	100.0	90.8
	32340	Television: Program rights	Q	Q	4 537	Q	Z	X
	32380	Multichannel programming distribution services (analog and digital)	Q	Q	43 547 018	Q	76.8	88.8
	32381	Basic programming package, including startup and reconnect fees	Q	Q	35 879 259	Q	63.3	X
	32382	Premium programming package	Q	Q	4 956 086	Q	8.7	X
	32383	Pay-per-view	Q	Q	2 711 673	Q	4.8	X
	32390	Air time - Program distribution networks: Advertising	Q	Q	3 242 109	Q	5.7	26.2
	32391	National and regional (net)	Q	Q	1 581 339	Q	2.8	X
	32392	Local (net)	Q	Q	1 660 770	Q	2.9	X
	32400	Cable and other program distribution: Related services	Q	Q	3 140 598	Q	5.5	52.3
	32401	Installation services, installing cable and/or outlets on customer's premise	Q	Q	415 505	Q	.7	X
	32402	Equipment rental	Q	Q	987 006	Q	1.7	X
	32403	Equipment sales, including decoders, satellite dishes, etc.	Q	Q	566 413	Q	1.0	X
	32404	Other related services	Q	Q	1 171 674	Q	2.1	X
	32410	Production and postproduction services - Television	Q	Q	1 134	Q	Z	X
	32420	Carrier services, including network access services to other telecommunication carriers	Q	Q	53 307	Q	.1	X
	32430	Basic fixed local telephony - Residential	Q	Q	534 775	Q	.9	X
	32440	Basic fixed local telephony - Business	Q	Q	21 550	Q	Z	X
	32460	Calling features, including call waiting, caller ID, voice mail - Fixed telephony	Q	Q	13 043	Q	Z	X
	32470	Basic fixed long distance telephony - Outbound - Residential	Q	Q	42 532	Q	.1	X
	32480	Basic fixed long distance telephony - Outbound - Business	Q	Q	19 848	Q	Z	X
	32500	Basic fixed long distance telephony - Inbound	Q	Q	567	Q	Z	X
	32520	Private network services	Q	Q	7 939	Q	Z	X
	32530	Data transmission services	Q	Q	1 701	Q	Z	X
	35550	Internet access services	Q	Q	4 544 170	Q	8.0	58.8
	35551	Narrowband	Q	Q	24 130	Q	Z	X
	35552	Broadband	Q	Q	4 520 040	Q	8.0	X
	39500	All other receipts	Q	Q	1 531 169	Q	2.7	87.7
	39533	All other receipts	Q	Q	1 531 169	Q	2.7	X
5179		Other telecommunications	711	X	1 609 528	X	100.0	20.8
51791		Other telecommunications	711	X	1 609 528	X	100.0	20.8
517910		Other telecommunications	711	X	1 609 528	X	100.0	20.8

¹Product line receipts and/or product line percents may not sum to total due to exclusion of selected lines to avoid disclosing data for individual companies, due to rounding, and/or due to exclusion of lines that did not meet publication criteria.

²Receipts of establishments reporting product lines as percent of total receipts.

³Mobile telephony (local and long distance), including cellular, PCS, ESMR technology, and satellite services

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling error. Data users who create their own estimates using data from this table should cite the Census Bureau as the source of the original data only. See also explanation of terms and geographic definitions. For the full technical documentation, see Appendix C.

Table 4. Concentration by Largest Firms for the United States: 2002

[These data are preliminary and are subject to change; they will be superseded by data released in later reports. Includes only firms and establishments of firms with payroll. Excludes data for corporate, subsidiary, and regional managing offices and establishments of these firms that are classified in other categories than those specified in this table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A. For method of assignment to categories shown, see Appendix C. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see note at end of table. Enterprise support establishments are included. Because of this, comparability to 1997 Economic Census data may be limited. See introductory text for an explanation of the treatment of enterprise support establishments in the 2002 Economic Census compared to the 1997 Economic Census.]

2002 NAICS code	Kind of business and largest firms based on receipts	Establishments (number)	Receipts		Annual payroll (\$1,000)	First-quarter payroll (\$1,000)	Paid employees for pay period including March 12 (number)
			Amount (\$1,000)	As percent of total			
517	Telecommunications						
	All firms	49 055	411 807 701	100.0	71 486 038	19 212 264	1 427 997
	4 largest firms	20 049	187 006 904	45.4	37 134 247	10 086 275	682 049
	8 largest firms	27 232	260 421 288	63.2	47 943 442	12 955 586	901 326
	20 largest firms	31 491	324 448 819	78.8	55 803 320	14 988 307	1 089 593
	50 largest firms	34 665	355 663 367	86.4	60 927 937	16 431 917	1 195 284
5171	Wired telecommunications carriers						
	All firms	27 891	238 262 752	100.0	46 949 234	12 772 082	835 372
	4 largest firms	14 880	141 854 118	59.5	29 382 848	7 753 276	490 924
	8 largest firms	21 185	193 197 363	81.1	37 915 348	10 262 273	659 419
	20 largest firms	22 926	209 899 577	88.1	41 190 593	11 184 076	723 257
	50 largest firms	23 767	220 693 933	92.6	43 096 958	11 751 120	756 730
51711	Wired telecommunications carriers						
	All firms	27 891	238 262 752	100.0	46 949 234	12 772 082	835 372
	4 largest firms	14 880	141 854 118	59.5	29 382 848	7 753 276	490 924
	8 largest firms	21 185	193 197 363	81.1	37 915 348	10 262 273	659 419
	20 largest firms	22 926	209 899 577	88.1	41 190 593	11 184 076	723 257
	50 largest firms	23 767	220 693 933	92.6	43 096 958	11 751 120	756 730
517110	Wired telecommunications carriers						
	All firms	27 891	238 262 752	100.0	46 949 234	12 772 082	835 372
	4 largest firms	14 880	141 854 118	59.5	29 382 848	7 753 276	490 924
	8 largest firms	21 185	193 197 363	81.1	37 915 348	10 262 273	659 419
	20 largest firms	22 926	209 899 577	88.1	41 190 593	11 184 076	723 257
	50 largest firms	23 767	220 693 933	92.6	43 096 958	11 751 120	756 730
5172	Wireless telecommunications carriers (except satellite)						
	All firms	11 175	100 106 033	100.0	13 348 034	3 585 203	286 128
	4 largest firms	4 577	61 172 578	61.1	8 025 828	2 267 636	165 974
	8 largest firms	5 860	81 042 998	81.0	10 459 057	2 843 637	213 005
	20 largest firms	7 042	89 283 891	89.2	11 505 288	3 106 257	237 665
	50 largest firms	7 447	94 401 067	94.3	12 252 889	3 300 745	257 858
51721	Wireless telecommunications carriers (except satellite)						
	All firms	11 175	100 106 033	100.0	13 348 034	3 585 203	286 128
	4 largest firms	4 577	61 172 578	61.1	8 025 828	2 267 636	165 974
	8 largest firms	5 860	81 042 998	81.0	10 459 057	2 843 637	213 005
	20 largest firms	7 042	89 283 891	89.2	11 505 288	3 106 257	237 665
	50 largest firms	7 447	94 401 067	94.3	12 252 889	3 300 745	257 858
517211	Paging						
	All firms	1 664	2 961 493	100.0	786 648	203 686	23 625
	4 largest firms	278	1 554 401	52.5	353 152	93 356	9 512
	8 largest firms	300	1 892 176	63.9	490 329	125 189	14 063
	20 largest firms	439	2 180 811	73.6	581 833	149 431	16 324
	50 largest firms	531	2 411 272	81.4	633 565	162 914	17 932
517212	Cellular and other wireless telecommunications						
	All firms	9 511	97 144 540	100.0	12 561 386	3 381 517	262 503
	4 largest firms	4 577	61 172 578	63.0	8 025 828	2 267 636	165 974
	8 largest firms	5 857	81 015 182	83.4	10 450 382	2 841 285	212 848
	20 largest firms	6 808	88 810 268	91.4	11 320 084	3 058 489	232 415
	50 largest firms	7 128	92 902 628	95.6	11 831 578	3 194 523	244 363
5173	Telecommunications resellers						
	All firms	2 526	9 390 740	100.0	1 375 305	373 642	34 003
	4 largest firms	60	2 240 294	23.9	194 234	58 239	3 554
	8 largest firms	66	2 783 769	29.6	269 592	77 584	5 593
	20 largest firms	97	3 817 370	40.7	466 654	129 702	9 670
	50 largest firms	251	5 083 086	54.1	631 749	177 366	14 106
51731	Telecommunications resellers						
	All firms	2 526	9 390 740	100.0	1 375 305	373 642	34 003
	4 largest firms	60	2 240 294	23.9	194 234	58 239	3 554
	8 largest firms	66	2 783 769	29.6	269 592	77 584	5 593
	20 largest firms	97	3 817 370	40.7	466 654	129 702	9 670
	50 largest firms	251	5 083 086	54.1	631 749	177 366	14 106
517310	Telecommunications resellers						
	All firms	2 526	9 390 740	100.0	1 375 305	373 642	34 003
	4 largest firms	60	2 240 294	23.9	194 234	58 239	3 554
	8 largest firms	66	2 783 769	29.6	269 592	77 584	5 593
	20 largest firms	97	3 817 370	40.7	466 654	129 702	9 670
	50 largest firms	251	5 083 086	54.1	631 749	177 366	14 106
5174	Satellite telecommunications						
	All firms	634	5 728 681	100.0	864 619	234 852	13 849
	4 largest firms	21	1 671 232	29.2	157 063	43 202	1 777
	8 largest firms	70	2 601 116	45.4	339 539	84 606	4 333
	20 largest firms	133	3 955 871	69.1	529 846	142 668	7 937
	50 largest firms	193	5 010 575	87.5	706 528	192 123	10 516

See footnotes at end of table.

Table 4. Concentration by Largest Firms for the United States: 2002—Con.

[These data are preliminary and are subject to change; they will be superseded by data released in later reports. Includes only firms and establishments of firms with payroll. Excludes data for corporate, subsidiary, and regional managing offices and establishments of these firms that are classified in other categories than those specified in this table. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see Appendix A. For method of assignment to categories shown, see Appendix C. Data based on the 2002 Economic Census. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see note at end of table. Enterprise support establishments are included. Because of this, comparability to 1997 Economic Census data may be limited. See introductory text for an explanation of the treatment of enterprise support establishments in the 2002 Economic Census compared to the 1997 Economic Census]

2002 NAICS code	Kind of business and largest firms based on receipts	Establishments (number)	Receipts		Annual payroll (\$1,000)	First-quarter payroll (\$1,000)	Paid employees for pay period including March 12 (number)
			Amount (\$1,000)	As percent of total			
51741	Satellite telecommunications						
	All firms	634	5 728 681	100.0	864 619	234 852	13 849
	4 largest firms	21	1 671 232	29.2	157 063	43 202	1 777
	8 largest firms	70	2 601 116	45.4	339 539	84 606	4 333
	20 largest firms	133	3 955 871	69.1	529 846	142 668	7 937
	50 largest firms	193	5 010 575	87.5	706 528	192 123	10 516
517410	Satellite telecommunications						
	All firms	634	5 728 681	100.0	864 619	234 852	13 849
	4 largest firms	21	1 671 232	29.2	157 063	43 202	1 777
	8 largest firms	70	2 601 116	45.4	339 539	84 606	4 333
	20 largest firms	133	3 955 871	69.1	529 846	142 668	7 937
	50 largest firms	193	5 010 575	87.5	706 528	192 123	10 516
5175	Cable and other program distribution						
	All firms	6 118	56 709 967	100.0	8 328 039	2 082 968	247 112
	4 largest firms	2 510	27 686 309	48.8	4 402 870	1 123 394	134 364
	8 largest firms	3 712	44 557 375	78.6	6 392 450	1 592 307	195 857
	20 largest firms	4 284	51 555 570	90.9	7 478 406	1 866 539	221 668
	50 largest firms	4 540	54 377 322	95.9	7 861 012	1 964 532	232 452
51751	Cable and other program distribution						
	All firms	6 118	56 709 967	100.0	8 328 039	2 082 968	247 112
	4 largest firms	2 510	27 686 309	48.8	4 402 870	1 123 394	134 364
	8 largest firms	3 712	44 557 375	78.6	6 392 450	1 592 307	195 857
	20 largest firms	4 284	51 555 570	90.9	7 478 406	1 866 539	221 668
	50 largest firms	4 540	54 377 322	95.9	7 861 012	1 964 532	232 452
517510	Cable and other program distribution						
	All firms	6 118	56 709 967	100.0	8 328 039	2 082 968	247 112
	4 largest firms	2 510	27 686 309	48.8	4 402 870	1 123 394	134 364
	8 largest firms	3 712	44 557 375	78.6	6 392 450	1 592 307	195 857
	20 largest firms	4 284	51 555 570	90.9	7 478 406	1 866 539	221 668
	50 largest firms	4 540	54 377 322	95.9	7 861 012	1 964 532	232 452
5179	Other telecommunications						
	All firms	711	1 609 528	100.0	620 807	163 517	11 533
	4 largest firms	72	504 414	31.3	169 975	46 482	3 335
	8 largest firms	94	756 570	47.0	278 326	73 194	4 956
	20 largest firms	126	1 098 545	68.3	438 599	115 287	7 159
	50 largest firms	281	1 356 401	84.3	537 303	141 718	8 747
51791	Other telecommunications						
	All firms	711	1 609 528	100.0	620 807	163 517	11 533
	4 largest firms	72	504 414	31.3	169 975	46 482	3 335
	8 largest firms	94	756 570	47.0	278 326	73 194	4 956
	20 largest firms	126	1 098 545	68.3	438 599	115 287	7 159
	50 largest firms	281	1 356 401	84.3	537 303	141 718	8 747
517910	Other telecommunications						
	All firms	711	1 609 528	100.0	620 807	163 517	11 533
	4 largest firms	72	504 414	31.3	169 975	46 482	3 335
	8 largest firms	94	756 570	47.0	278 326	73 194	4 956
	20 largest firms	126	1 098 545	68.3	438 599	115 287	7 159
	50 largest firms	281	1 356 401	84.3	537 303	141 718	8 747

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling error. Data users who create their own estimates using data from this table should cite the Census Bureau as the source of the original data only. See also explanation of terms and geographic definitions. For the full technical documentation, see Appendix C.

Appendix A.

Explanation of Terms

ANNUAL PAYROLL

Payroll includes all forms of compensation such as salaries, wages, commissions, dismissal pay, bonuses, vacation allowances, sick-leave pay, and employee contributions to qualified pension plans paid during the year to all employees and reported on Internal Revenue Service (IRS) Form 941 as taxable Medicare Wages and tips (even if not subject to income or FICA tax). Also included are tips and gratuities received by employees from patrons and reported to employers. If an employee works at more than one location, the payroll is included in the one location where they spend most of their time. Also included are salaries of members of professional service organizations or associations that operate under state professional corporation statutes and file a corporate federal income tax return. Excluded are payrolls of departments or concessions operated by other companies at the establishment; payments to or withdrawals by proprietors or partners of an unincorporated company; and annuities or supplemental unemployment compensation benefits, even if income tax was withheld. Payroll is reported before deductions for social security, income tax, insurance, union dues, etc. This definition of payroll is the same as that used by the IRS on Form 941.

ESTABLISHMENTS

An establishment is a single physical location at which business is conducted and/or services are provided. It is not necessarily identical to a company or enterprise, which may consist of one establishment or more. Economic census figures represent a summary of reports for individual establishments rather than companies. For cases where a census report was received, separate information was obtained for each location where business was conducted. When administrative records of other federal agencies were used instead of a census report, no information was available on the number of locations operated. Each economic census establishment was tabulated according to the physical location at which the business was conducted. The count of establishments represents those in business at any time during 2002.

When two activities or more were carried on at a single location under a single ownership, all activities generally were grouped together as a single establishment. The entire establishment was classified on the basis of its major activity and all data for it were included in that classification. However, when distinct and separate economic activities (for which different industry classification codes were appropriate) were conducted at a single location under a single ownership, separate establishment reports for each of the different activities were obtained in the census.

Leased service departments (separately owned businesses operated as departments or concessions of other service establishments or of retail businesses, such as a separately owned shoe-shine parlor in a barber shop, or a beauty shop in a department store) are treated as separate service establishments for census purposes. Leased retail departments located in service establishments (e.g., a gift shop located in a hotel) are considered separate retail establishments.

FIRMS

A firm is a business organization or entity consisting of one domestic establishment (location) or more under common ownership or control. All establishments of subsidiary firms are included as part of the owning or controlling firm. For the economic census, the terms "firm" and "company" are synonymous.

FIRST-QUARTER PAYROLL

Represents payroll paid to persons employed at any time during the quarter January to March 2002.

PAID EMPLOYEES FOR PAY PERIOD INCLUDING MARCH 12

Paid employees consists of full- and part-time employees, including salaried officers and executives of corporations, who were on the payroll during the pay period including March 12. Included are employees on paid sick leave, paid holidays, and paid vacations, and salaried members of professional service organizations or associations that operate under state professional corporation statutes and file corporate federal income tax returns. Not included are proprietors and partners of unincorporated businesses; employees of departments or concessions operated by other companies at the establishment; full- and part-time leased employees whose payroll was filed under an employee leasing company's Employer Identification Number (EIN); and temporary staffing obtained from a staffing service. The definition of paid employees is the same as that used by the Internal Revenue Service (IRS) on Form 941.

RECEIPTS

Includes gross receipts from customers or clients for services provided, from the use of facilities, and from merchandise sold during 2002, whether or not payment was received in 2002. Receipts include royalties, license fees, and other payments from the marketing of intangible products (e.g., licensing the use of or granting reproduction rights for software, musical compositions, and other intellectual property). Receipts also include the rental and leasing of vehicles, equipment, instruments, tools, etc.; total value of service contracts; market value of compensation received in lieu of cash; amounts received for work subcontracted to others; dues and assessments from members and affiliates; this establishment's share of receipts from departments, concessions, and vending and amusement machines operated by others. Sales to and receipts from foreign parent firms, subsidiaries, and branches are included. Receipts also include advertising sales, and sales of goods and services marketed through sales offices. For public broadcast stations and libraries, receipts include contributions, gifts, grants, and income from interest, rental of real estate, and dividends.

Receipts do not include sales and other taxes (including Hawaii's General Excise Tax) collected directly from customers or clients and paid directly to a local, state, or federal tax agency. Also excluded are gross receipts collected on behalf of others; gross receipts from departments or concessions operated by others; sales of used equipment previously rented or leased to customers; proceeds from the sale of real estate (land and buildings), investments, or other assets (except inventory held for resale); contributions, gifts, grants, and income from interest, rental of real estate, and dividends, EXCEPT for public broadcast stations and libraries; domestic intracompany transfers; receipts of foreign parent firms and subsidiaries; and other nonoperating income (e.g., franchise fees).

Appendix B.

NAICS Codes, Titles, and Descriptions

PART 1. 2002 NAICS

517 TELECOMMUNICATIONS

Industries in the Telecommunications subsector include establishments providing telecommunications and the services related to that activity. The Telecommunications subsector is primarily engaged in operating, maintaining, and/or providing access to facilities for the transmission of voice, data, text, sound, and video. A transmission facility may be based on a single technology or a combination of technologies. Establishments primarily engaged as independent contractors in the maintenance and installation of broadcasting and telecommunications systems are classified in Sector 23, Construction.

5171 WIRED TELECOMMUNICATIONS CARRIERS

This industry group comprises establishments primarily engaged in operating, maintaining or providing access to facilities for the transmission of voice, data, text, sound, and video using wired telecommunications networks. Transmission facilities may be based on a single technology or a combination of technologies.

51711 WIRED TELECOMMUNICATIONS CARRIERS

This industry comprises establishments engaged in (1) operating and maintaining switching and transmission facilities to provide direct communications via landlines, microwave, or a combination of landlines and satellite linkups or (2) furnishing telegraph and other nonvocal communications using their own facilities.

517110 WIRED TELECOMMUNICATIONS CARRIERS

This industry comprises establishments engaged in (1) operating and maintaining switching and transmission facilities to provide direct communications via landlines, microwave, or a combination of landlines and satellite linkups or (2) furnishing telegraph and other nonvocal communications using their own facilities.

5172 WIRELESS TELECOMMUNICATIONS CARRIERS (EXCEPT SATELLITE)

This industry comprises establishments primarily engaged in operating and maintaining or providing access to facilities for the transmission of voice, data, text, sound, and video using wireless telecommunications networks. Transmission facilities may be based on a single technology or a combination of technologies.

51721 WIRELESS TELECOMMUNICATIONS CARRIERS (EXCEPT SATELLITE)

This industry comprises establishments primarily engaged in operating and maintaining switching and transmission facilities that provide omni-directional communications via airwaves. Included in this industry are establishments providing wireless telecommunications network services, such as cellular telephone or paging services.

517211 PAGING

This industry comprises establishments primarily engaged in operating paging networks. The establishments of this industry may also supply and maintain equipment used to receive signals.

517212 CELLULAR AND OTHER WIRELESS TELECOMMUNICATIONS

This industry comprises establishments primarily engaged in operating cellular telecommunications and other wireless telecommunications networks (except paging).

5173 TELECOMMUNICATIONS RESELLERS

This industry comprises establishments primarily engaged in purchasing access and network capacity from owners and operators of the networks and reselling wired and wireless telecommunications services to businesses and households. Establishments in this industry resell telecommunications; they do not operate and maintain telecommunications switching and transmission facilities.

51731 TELECOMMUNICATIONS RESELLERS

This industry comprises establishments primarily engaged in purchasing access and network capacity from owners and operators of the networks and reselling wired and wireless telecommunications services to businesses and households. Establishments in this industry resell telecommunications; they do not operate and maintain telecommunications switching and transmission facilities.

517310 TELECOMMUNICATIONS RESELLERS

This industry comprises establishments primarily engaged in purchasing access and network capacity from owners and operators of the networks and reselling wired and wireless telecommunications services to businesses and households. Establishments in this industry resell telecommunications; they do not operate and maintain telecommunications switching and transmission facilities.

5174 SATELLITE TELECOMMUNICATIONS

This industry comprises establishments primarily engaged in providing point-to-point telecommunications services to other establishments in the telecommunications and broadcasting industries by forwarding and receiving communications signals via a system of satellites or reselling satellite telecommunications.

51741 SATELLITE TELECOMMUNICATIONS

This industry comprises establishments primarily engaged in providing point-to-point telecommunications services to other establishments in the telecommunications and broadcasting industries by forwarding and receiving communications signals via a system of satellites or reselling satellite telecommunications.

517410 SATELLITE TELECOMMUNICATIONS

This industry comprises establishments primarily engaged in providing point-to-point telecommunications services to other establishments in the telecommunications and broadcasting industries by forwarding and receiving communications signals via a system of satellites or reselling satellite telecommunications.

5175 CABLE AND OTHER PROGRAM DISTRIBUTION

This industry comprises establishments primarily engaged as third-party distribution systems for broadcast programming. The establishments of this industry deliver visual, aural, or textual programming received from cable networks, local television stations, or radio networks to consumers via cable or direct-to-home satellite systems on a subscription or fee basis. These establishments do not generally originate programming material.

51751 CABLE AND OTHER PROGRAM DISTRIBUTION

This industry comprises establishments primarily engaged as third-party distribution systems for broadcast programming. The establishments of this industry deliver visual, aural, or textual programming received from cable networks, local television stations, or radio networks to consumers via cable or direct-to-home satellite systems on a subscription or fee basis. These establishments do not generally originate programming material.

517510 CABLE AND OTHER PROGRAM DISTRIBUTION

This industry comprises establishments primarily engaged as third-party distribution systems for broadcast programming. The establishments of this industry deliver visual, aural, or textual programming received from cable networks, local television stations, or radio networks to consumers via cable or direct-to-home satellite systems on a subscription or fee basis. These establishments do not generally originate programming material.

5179 OTHER TELECOMMUNICATIONS

This industry comprises establishments primarily engaged in providing specialized telecommunications applications, such as satellite tracking, communications telemetry, and radar station operations; or providing satellite terminal stations and associated facilities operationally connected with one or more terrestrial communications systems and capable of transmitting telecommunications to or receiving telecommunications from satellite systems.

51791 OTHER TELECOMMUNICATIONS

This industry comprises establishments primarily engaged in providing specialized telecommunications applications, such as satellite tracking, communications telemetry, and radar station operations; or providing satellite terminal stations and associated facilities operationally connected with one or more terrestrial communications systems and capable of transmitting telecommunications to or receiving telecommunications from satellite systems.

517910 OTHER TELECOMMUNICATIONS

This industry comprises establishments primarily engaged in providing specialized telecommunications applications, such as satellite tracking, communications telemetry, and radar station operations; or providing satellite terminal stations and associated facilities operationally connected with one or more terrestrial communications systems and capable of transmitting telecommunications to or receiving telecommunications from satellite systems.

PART 2. 1997 NAICS

5133 TELECOMMUNICATIONS

This industry group comprises establishments primarily engaged in operating, maintaining or providing access to facilities for the transmission of voice, data, text, and full motion picture video between network termination points and telecommunications reselling. Transmission facilities may be based on a single technology or a combination of technologies.

51331 WIRED TELECOMMUNICATIONS CARRIERS

This industry comprises establishments engaged in (1) operating and maintaining switching and transmission facilities to provide direct communications via landlines, microwave, or a combination of landlines and satellite linkups or (2) furnishing telegraph and other nonvocal communications using their own facilities.

513310 WIRED TELECOMMUNICATIONS CARRIERS

This industry comprises establishments engaged in: (1) operating and maintaining switching and transmission facilities to provide direct communications via landlines, microwave, or a combination of landlines and satellite linkups or (2) furnishing telegraph and other nonvocal communications using their own facilities.

51332 WIRELESS TELECOMMUNICATIONS CARRIERS (EXCEPT SATELLITE)

This industry comprises establishments primarily engaged in operating and maintaining switching and transmission facilities that provide direct communications via airwaves. Included in this industry are establishments providing wireless telecommunications network services, such as cellular telephone or paging services.

513321 PAGING

This industry comprises establishments primarily engaged in operating paging networks. The establishments of this industry may also supply and maintain equipment used to receive signals.

513322 CELLULAR AND OTHER WIRELESS TELECOMMUNICATIONS

This industry comprises establishments primarily engaged in operating cellular telecommunications and other wireless telecommunications networks (except paging).

51333 TELECOMMUNICATIONS RESELLERS

This industry comprises establishments primarily engaged in purchasing access and network capacity from owners and operators of the networks and reselling wired and wireless telecommunications services to businesses and households. Establishments in this industry resell telecommunications; they do not operate and maintain telecommunications switching and transmission facilities.

513330 TELECOMMUNICATIONS RESELLERS

This industry comprises establishments primarily engaged in purchasing access and network capacity from owners and operators of the networks and reselling wired and wireless telecommunications services to businesses and households. Establishments in this industry resell telecommunications; they do not operate and maintain telecommunications switching and transmission facilities.

51334 SATELLITE TELECOMMUNICATIONS

This industry comprises establishments primarily engaged in providing point-to-point telecommunications services to other establishments in the telecommunications and broadcasting industries by forwarding and receiving communications signals via a system of satellites or reselling satellite telecommunications.

513340 SATELLITE TELECOMMUNICATIONS

This industry comprises establishments primarily engaged in providing point-to-point telecommunications services to other establishments in the telecommunications and broadcasting industries by forwarding and receiving communications signals via a system of satellites or reselling satellite telecommunications.

51322 CABLE AND OTHER PROGRAM DISTRIBUTION

This industry comprises establishments primarily engaged as third-party distribution systems for broadcast programming. The establishments of this industry deliver visual, aural, or textual programming received from cable networks, local television stations, or radio networks to consumers via cable or direct-to-home satellite systems on a subscription or fee basis. These establishments do not generally originate programming material.

513220 CABLE AND OTHER PROGRAM DISTRIBUTION

This industry comprises establishments primarily engaged as third-party distribution systems for broadcast programming. The establishments of this industry deliver visual, aural, or textual programming received from cable networks, local television stations, or radio networks to consumers via cable or direct-to-home satellite systems on a subscription or fee basis. These establishments do not generally originate programming material.

51339 OTHER TELECOMMUNICATIONS

This industry comprises establishments primarily engaged in (1) providing specialized telecommunications applications, such as satellite tracking, communications telemetry, and radar station operations or (2) providing satellite terminal stations and associated facilities operationally connected with one or more terrestrial communications systems and capable of transmitting telecommunications to or receiving telecommunications from satellite systems.

513390 OTHER TELECOMMUNICATIONS

This industry comprises establishments primarily engaged in: (1) providing specialized telecommunications applications, such as satellite tracking, communications telemetry, and radar station operations or (2) providing satellite terminal stations and associated facilities operationally connected with one or more terrestrial communications systems and capable of transmitting telecommunications to or receiving telecommunications from satellite systems.

Appendix C.

Methodology

SOURCES OF THE DATA

For this sector, large- and medium-size firms, plus all firms known to operate more than one establishment, were sent report forms to be completed for each of their establishments and returned to the Census Bureau. For most very small firms, data from existing administrative records of other federal agencies were used instead. These records provide basic information on location, kind of business, receipts, payroll, number of employees, and legal form of organization.

Firms in the 2002 Economic Census are divided into those sent report forms and those not sent report forms. The coverage of and the method of obtaining census information from each are described below:

1. Establishments sent a report form:
 - a. Large employers, i.e., all multiestablishment firms, and all employer firms with payroll above a specified cutoff. (The term “employers” refers to firms with one or more paid employees at any time during 2002 as shown in the active administrative records of other federal agencies.)
 - b. A sample of small employers, i.e., single-establishment firms with payroll below a specified cutoff in classifications for which specialized data precludes reliance solely on administrative records sources. The sample was stratified by industry and geography.
2. Establishments not sent a report form:
 - a. Small employers, i.e., single-establishment firms with payroll below a specified cutoff, not selected into the small employer sample. Although the payroll cutoff varies by kind of business, small employers not sent a report form generally include firms with less than 10 employees and represent about 10 percent of total receipts of establishments covered in the census. Data on receipts, payroll, and employment for these small employers were derived or estimated from administrative records of other federal agencies.
 - b. All nonemployers, i.e., all firms with no paid employees during 2002. Receipts information for these firms was obtained from administrative records of other federal agencies. Although consisting of many firms, nonemployers account for less than 10 percent of total receipts of all establishments covered in the census. Data for nonemployers are not included in this report, but are released in the annual *Nonemployer Statistics* series.

The report forms used to collect information for establishments in this sector are available at help.econ.census.gov/econhelp/resources/.

A more detailed examination of census methodology is presented in the *History of the Economic Census* at www.census.gov/econ/www/history.html.

INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

The classifications for all establishments are based on the *North American Industry Classification System, United States, 2002* manual. Changes between 1997 and 2002 affecting this sector are discussed in the text at the beginning of this report. Tables at www.census.gov/epcd/naics02/ identify all industries that changed between the 1997 North American Industry Classification System (NAICS) and 2002 NAICS.

The method of assigning classifications and the level of detail at which establishments were classified depends on whether a report form was obtained for the establishment.

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1. Establishments that returned a report form were classified on the basis of their self-designation, product line receipts, and responses to other industry-specific inquiries.
 2. Establishments without a report form:
 - a. Small employers not sent a form were, where possible, classified on the basis of the most current kind-of-business classification available from one of the Census Bureau's current sample surveys or the 1997 Economic Census. Otherwise, the classification was obtained from administrative records of other federal agencies. If the census or administrative record classifications proved inadequate (none corresponded to a 2002 Economic Census classification in the detail required for employers), the firm was sent a brief inquiry requesting information necessary to assign a kind-of-business code.
 - b. Nonemployers were classified on the basis of information obtained from administrative records of other federal agencies.

RELIABILITY OF DATA

All data compiled in the economic census are subject to nonsampling errors. Nonsampling errors can be attributed to many sources during the development or execution of the census:

- inability to identify all cases in the actual universe;
- definition and classification difficulties;
- differences in the interpretation of questions;
- errors in recording or coding the data obtained; and
- other errors of collection, response, coverage, processing, and estimation for missing or misreported data.

Data presented in the Miscellaneous Subjects and the Product Lines reports for this sector are subject to sampling errors, as well as nonsampling errors. Specifically, these data are estimated based on information obtained from census report forms mailed to all large employers and to a sample of small employers in the universe. Sampling errors affect these estimates, insofar, as they may differ from results that would be obtained from a complete enumeration.

The accuracy of these tabulated data is determined by the joint effects of the various nonsampling errors or by the joint effects of sampling and nonsampling errors. No direct measurement of these effects has been obtained except for estimation for missing or misreported data; however, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize the effects of nonsampling errors.

The Census Bureau obtains limited information extracted from administrative records of other federal agencies, such as gross receipts from federal income tax records and employment and payroll from payroll tax records. This information is used in conjunction with other information available to the Census Bureau to develop estimates for nonemployers, small employers, and other establishments for which responses were not received in time for publication.

Key tables in this report include a column for "Percent of receipts from administrative records." This includes receipts information obtained from administrative records of other federal agencies. The "Percent of receipts estimated" includes receipts information that was imputed based on historic company ratios or administrative records, or on industry averages.

The Census Bureau recommends that data users incorporate this information into their analyses, as nonsampling error and sampling error could impact the conclusions drawn from economic census data.

TREATMENT OF NONRESPONSE

Census report forms included two different types of inquiries, "basic" and "industry-specific." Data for the basic inquiries, which include location, kind of business or operation, receipts, payroll, and number of employees, were available from a combination of sources for all establishments. Data for industry-specific inquiries, tailored to the particular kinds of business or operation covered by the report form, were available only from establishments responding to those inquiries.

Data for industry-specific inquiries in this sector were expanded in most cases to account for establishments that did not respond to the particular inquiry for which data are presented. Unless otherwise noted in specific reports, data for industry-specific inquiries were expanded in direct relationship to total receipts of all establishments included in the category. In a few cases, expansion on the basis of the receipts was not appropriate, and another basic data item was used as the basis for expansion of reported data to account for nonrespondents.

All reports in which industry-specific data were expanded include a coverage indicator for each publication category, which shows the receipts of establishments responding to the industry-specific inquiry as a percent of total receipts for all establishments for which data are shown. For some inquiries, coverage is determined by the ratio of total payroll or employment of establishments responding to the inquiry to total payroll or employment of all establishments in the category.

CONCENTRATION CATEGORIES

Concentration categories are based on aggregate receipts of all establishments operated by the same firm in a given kind-of-business classification or group for which data are presented. For example, a firm operating two service establishments – a motion picture film laboratory (NAICS 512199) and a sound recording studio (NAICS 512240) – would be treated as two one-establishment firms at the most detailed NAICS level, and as a two-establishment firm in NAICS 512.

DISCLOSURE

In accordance with federal law governing census reports (Title 13 of the United States Code), no data are published that would disclose the operations of an individual establishment or business. However, the number of establishments in a kind-of-business classification is not considered a disclosure; therefore, this information may be released even though other information is withheld. Techniques employed to limit disclosure are discussed at www.census.gov/epcd/ec02/disclosure.htm.

Appendix D. Geographic Notes

Not applicable for this report.

Appendix E. Metropolitan and Micropolitan Statistical Areas

Not applicable for this report.

