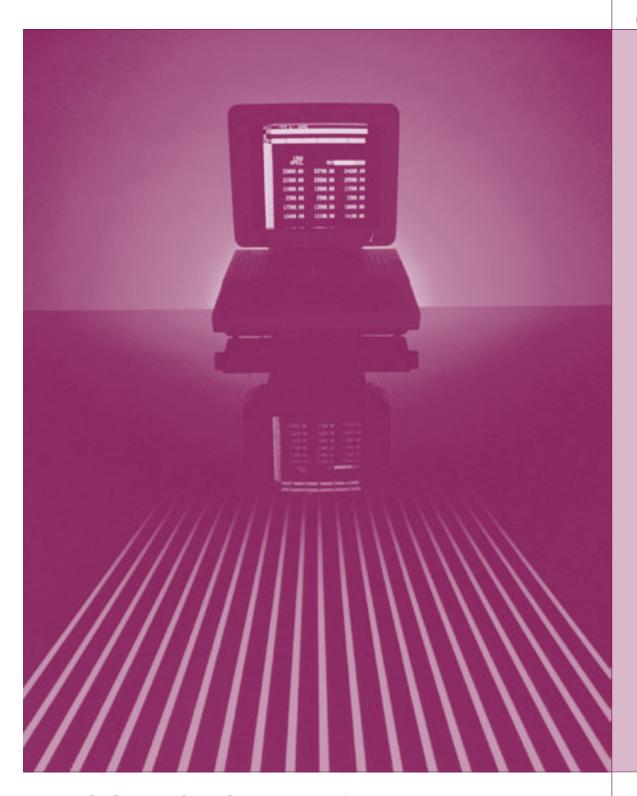
Information and Communication Technology: 2003

Issued June 2005

ICT/03



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ACKNOWLEDGMENTS

The Company Statistics Division prepared this report. Ruth A. Runyan, Assistant Division Chief for Surveys and Programs, was responsible for the overall planning, management, and coordination. Planning and implementation were under the direction of Charles A. Funk, Chief, Business Investment Branch, assisted by Jacqueline Eanes, Sara Prebble, Derrick Roy, and Victor Souphom, Section Chiefs. Primary staff assistance was provided by Ayub Abdallah, William Abriatis, Susan Andrichuk, George Chancellor, Tina Choe, Beth Evans, Jamie Faulkner, William Gainor, Venita Holland, Demetrius Lambeth, Anthony Matacale, Holly Merwin, Sean Morse, Conrad Munger, Omar Nix, Sherrita Powell, Monica Sovero, and James **Thomas.** Additional assistance was provided by Amanda Williams, Marie Rustin, John Seabold, Jessica Wellwood, and Jeremy Wiedemann.

General direction for statistical methodology was provided by **Carol Caldwell**, Assistant Division Chief for Research and Methodology, and **Mark Sands**, Chief, Statistical Research and Methods Branch. **Amy Newman-Smith, Ana Rodriguez, Matthew Falkenstein, Tameka Johnson**, and **Justin Smith** developed and implemented the sample design, nonresponse adjustment and estimation methodology.

The Economic Planning and Coordination Division, William Samples, Chief, Mailout and Data Collection Branch, coordinated survey mailout and data collection with Section Chiefs Betty McKay and Chris Berbert. Primary assistance was provided by Bernadette Gray and Dameka Hemsley.

The staff of the National Processing Center, **Mark Grice**, Assistant Division Chief for Processing, performed mailout preparation and receipt operations, clerical and analytical review activities, and data entry.

The Economic Statistical Methods and Programming Division, **Edward Bates Jr.**, Chief, Current Manufacturing and Company Statistics Annuals Branch, developed and implemented computer processing systems. **Nestor Baez Jr.**, Supervisory Computer Specialist Systems Analyst, supervised the preparation of computer programs. **Stephen Potemkin** was responsible for frame creation and sample selection. **Tony Duong, Barbara Harris, Kavita Khaneja, Zbigniew Gorski,** and **Diane Musachio** were responsible for frame creation, sample selection and primary programming.

Wanda K. Cevis, Margaret A. Smith, Heather M. Lilley, and Catherine M. Raymond of the Administrative and Customer Services Division, Walter C. Odom, Chief, provided publications and printing management, graphics design and composition, and editorial review for print and electronic media. General direction and production management were provided by James R. Clark, Assistant Division Chief, and Susan L. Rappa, Chief, Publications Services Branch.

Finally, a special acknowledgment is due to the many businesses whose cooperation was essential to the success of this report.

If you have any questions concerning the statistics in this report, call 301-763-3324.

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Introduction

DESCRIPTION OF SURVEY

The Information and Communication Technology Survey (ICTS), a supplement to the Annual Capital Expenditures Survey (ACES), was created in response to economic data user and policymaker concerns about the lack of available data on e-business infrastructure investment by nonfarm businesses. Rapid changes and advances in information and communication technology (ICT) equipment have resulted in these assets having short useful lives and a tendency to be replaced much quicker than other types of equipment. Companies are expensing the full cost of such assets during the current annual period rather than capitalizing the value of such assets and expensing the cost over two or more years. In some cases this is due to the short useful life of the asset, and in other cases this is because companies have varying dollar levels for capitalization.

The ICTS data are critical for providing improved source data to the investment component of gross domestic product, capital stock estimates, and capital flow tables. The data will also be used to assess future productivity and economic growth prospects. In addition, the data provide facts about trends in such expenditures useful for identifying business opportunities, product development, and business planning.

The 2003 estimates in this report are based on data collected from a sample of 45,994 companies with employees. The sample frame for companies with employees was slightly more than 5.7 million.

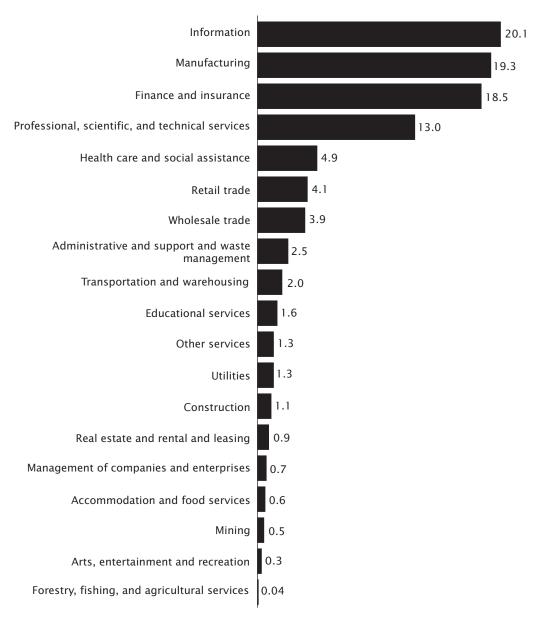
COMPOSITION OF INDUSTRY CATEGORY CODES

The industry categories used in the 2003 ICTS were comprised primarily of 3-digit and selected 4-digit industries from the North American Industry Classification System (NAICS): 1997. Industry combinations were developed through consultation with data users.

INFORMATION REQUESTED

Three survey forms (ICT-1(S), ICT-1(M), and ICT-1(L)) were used for the 2003 ICTS. Each company in the sample was sent one of the forms depending on the diversification of their operations. Recipients of these survey forms were asked to provide industry-level data for noncapitalized purchases, and operating leases and rental payments for three types of ICT equipment (computers and peripheral equipment; ICT equipment, excluding computers and peripherals; and, electromedical and electrotherapeutic apparatus). In addition, companies were asked to provide industry-level data for noncapitalized purchases and payroll for developing software, and noncapitalized software licensing and service/maintenance agreements. Additional detail regarding the ICTS forms and instructions can be found in Appendix C.

Figure 1. Noncapitalized ICT Expenditures by Business Sectors for Companies With Employees: 2003 (Billion dollars)



SUMMARY OF FINDINGS

In 2003, U.S. businesses with employees invested \$229.3 billion on information and communication technology (ICT) equipment, including computer software. Noncapitalized spending was \$97.2 billion, or 42.4 percent of total spending and capitalized spending was \$132.1 billion (as reported in the 2003 Annual Capital Expenditures Survey), or 57.6 percent of total spending.

Of the 2003 noncapitalized spending (\$97.2 billion), purchases totaled \$23.5 billion (24.2 percent), operating leases and rental payments totaled nearly \$19.7 billion (20.3 percent), and computer software expenditures totaled \$53.9 billion (55.5 percent). Of the capitalized spending (\$132.1 billion), purchases totaled \$87.8 billion (66.5 percent), and computer software expenditures totaled \$44.3 billion (33.5 percent). Additional information regarding capitalized spending can be found in the 2003 Annual Capital Expenditures Survey publication located at http://www.census.gov/csd/ace/index.html.

Of the noncapitalized purchases (\$23.5 billion), computer and peripheral equipment accounted for \$16.8 billion, ICT equipment excluding computers and peripherals accounted for \$6.4 billion, and electromedical and electrotherapeutic apparatus accounted for \$0.4 billion.

Of the noncapitalized operating leases and rental payments (\$19.7 billion), computer and peripheral equipment accounted for \$12.4 billion, ICT equipment excluding computers and peripherals accounted for \$6.6 billion, and electromedical and electrotherapeutic apparatus accounted for nearly \$0.7 billion.

Of the \$53.9 billion for noncapitalized software expenditures, \$33.2 billion, or 61.5 percent, was spent on purchases and payroll for developing software, and \$20.7 billion was spent on software licensing and service/maintenance agreements.

Highlights of noncapitalized ICT expenditures by business sector for companies with employees [Business sector data are based on the 1997 North American Industry Classification System]

Information. The information sector (e.g., publishing, broadcasting, telecommunications), spent \$20.1 billion on noncapitalized ICT expenditures. This spending level accounts for 20.6 percent of total noncapitalized expenditures. Of this sector's spending, equipment purchases accounted for \$2.3 billion; operating leases and rental payments accounted for \$4.9 billion; purchases and payroll for developing computer software accounted for \$8.3 billion; and, software licensing and service/maintenance agreements accounted for \$4.6 billion.

Manufacturing. The manufacturing sector spent \$19.3 billion on noncapitalized ICT expenditures in 2003 and accounts for 19.8 percent of total noncapitalized expenditures. Of this sector's spending, equipment purchases

accounted for \$6.2 billion; operating leases and rental payments accounted for \$3.2 billion; purchases and payroll for developing computer software accounted for \$5.7 billion; and, software licensing and service/maintenance agreements accounted for \$4.1 billion.

Noncapitalized spending by durable goods manufacturers totaled \$13.9 billion in 2003, or 72.2 percent of this sector's spending. Equipment purchases accounted for \$4.9 billion; operating leases and rental payments accounted for \$2.0 billion; purchases and payroll for developing computer software accounted for \$4.2 billion; and, software licensing and service/maintenance agreements accounted for \$2.7 billion.

Nondurable goods manufacturers spent \$5.4 billion on noncapitalized expenditures in 2003. Of this total, spending was about the same for equipment purchases, operating leases and rental payments, purchases and payroll for developing computer software, and software licensing and service/maintenance agreements.

Finance and insurance. This sector spent \$18.5 billion on noncapitalized expenditures, accounting for 19.0 percent of total noncapitalized expenditures. Of this sector's spending, equipment purchases accounted for \$4.4 billion; operating leases and rental payments accounted for \$3.1 billion; purchases and payroll for developing computer software accounted for \$6.6 billion; and, software licensing and service/maintenance agreements accounted for \$4.4 billion.

Professional, scientific, and technical services. Non-capitalized ICT spending in this sector totaled \$13.0 billion, or 13.4 percent of total noncapitalized expenditures. Of this sector's spending, equipment purchases accounted for \$2.8 billion; operating leases and rental payments accounted for \$2.1 billion; purchases and payroll for developing computer software accounted for \$6.3 billion; and, software licensing and service/maintenance agreements accounted for \$1.8 billion.

Health care and social assistance. The health care and social assistance sector spent \$4.9 billion on noncapitalized ICT expenditures in 2003. Of this spending, \$3.1 billion was for equipment excluding computer software, and \$1.8 billion for software.

Retail trade. In 2003, the retail trade sector spent \$4.1 billion on noncapitalized ICT expenditures. Of this amount, \$2.1 billion was spent on equipment excluding computer software, and \$2.0 billion was spent on software.

Wholesale trade The wholesale trade sector spent \$3.9 billion on noncapitalized ICT expenditures. Spending on equipment excluding computer software totaled \$1.5 billion, and \$2.3 billion was spent on software.

Administrative and support and waste manage-

ment. Noncapitalized ICT spending in this sector totaled \$2.5 billion in 2003. Of this total, about the same amount was spent on ICT equipment excluding computer software as was spent on software.

Transportation and warehousing. The transportation and warehousing sector spent \$2.0 billion on noncapitalized expenditures in 2003. Of the total spending in this sector, \$1.2 billion was spent on equipment excluding computer software. The remaining \$0.8 billion was spent on software.

Educational services. In 2003, the educational services sector spent \$1.6 billion on noncapitalized ICT expenditures. Of this sector's total spending, about twice as much was spent on ICT equipment excluding computer software as was spent on software.

Other services (except public administration). Non-capitalized ICT spending in this sector totaled \$1.3 billion. Of this sector's total spending, about twice as much was spent on ICT equipment excluding computer software as was spent on software.

Utilities. The utilities sector spent \$1.3 billion on non-capitalized ICT expenditures in 2003. Of the total spending in this sector, about half (\$0.5 billion) as much was spent on ICT equipment excluding computer software as was spent (\$0.8 billion) on software.

Construction. The construction sector spent \$1.1 billion on noncapitalized ICT expenditures. Spending on ICT equipment excluding computer software totaled \$0.8 billion, and \$0.4 billion was spent on software.

Real estate and rental and leasing. Noncapitalized ICT spending in this sector totaled \$0.9 billion in 2003. Of this amount, \$0.6 billion was spent on ICT equipment excluding computer software, and \$0.3 billion was spent on software.

Management of companies and enterprises. This sector spent \$0.7 billion on noncapitalized expenditures in 2003. Of this amount, \$0.3 billion was spent on ICT equipment excluding computer software, and \$0.4 billion for software.

Accommodation and food services. The accommodation and food services sector spent \$0.6 billion on non-capitalized ICT expenditures in 2003. Spending on ICT equipment excluding computer software was \$0.4 billion, and spending on software was \$0.2 billion.

Mining. Noncapitalized ICT spending in the mining sector totaled \$0.5 billion in 2003. Spending was about the same for ICT equipment expenditures excluding computer software, and for software.

Arts, entertainment, and recreation. Spending in this sector totaled \$0.3 billion in 2003 with spending about even for ICT equipment expenditures excluding computer software, and for software.

Note: Associated relative standard error tables are included in this publication.

The data in this report are subject to sampling variability, as well as nonsampling error. Sources of nonsampling error include errors of response, nonreporting, and coverage. Further details concerning survey design, methodology, and data limitations are contained in the appendixes of this publication.

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 company. Disclosure limitation is the process for protecting the confidentiality of data. A disclosure would occur if someone could use published statistical information to infer the identity or operations of a business that has provided information under a pledge of confidentiality. Disclosure suppression protects the confidentiality of individual businesses by withholding (suppressing) the cell values in tables of aggregate data for cases where only a few businesses are represented or dominate the statistic presented.

The disclosure analysis for the ICTS statistics is performed on each data item. When the estimate for a specific data item cannot be shown without disclosing information for individual companies, then the publication of that data item is suppressed. The process of suppression does not change the marginal totals, so the integrity of the data is not adversely affected.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

- Represents zero.
- (D) Withheld to avoid disclosing data for individual companies, data are included in higher level totals.
- (NA) Not available.
- (X) Not applicable.
- (Z) Less than half of unit shown.

ELECTRONIC ACCESS OF DATA

The 2003 Information and Communication Technology Survey data are available electronically on the Internet at http://www.census.gov/csd/ict/>.

The 2003 Annual Capital Expenditures Survey data are available electronically on the Internet at http://www.census.gov/csd/ace/>.

For further information regarding electronic releases, call 301-763-INFO (4636).

PRINTED PUBLICATIONS

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DATA CONTACTS

For questions concerning the statistics in this report, call 1-800-227-1735, fax 301-457-3341, or write to:

U.S. Census Bureau Company Statistics Division Business Investment Branch FB-3, Room 1285 Washington, DC 20233-6400

NOTICE OF FUTURE CHANGES

This will be the final year the U.S. Census Bureau publishes data for this survey using the 1997 North American Industry Classification System (NAICS). Beginning with the 2004 Survey year, we will publish data using the 2002 NAICS.

The following URL contains detailed information about NAICS and provides a comparison of the 1997 NAICS to the 2002 NAICS at http://www.census.gov/epcd/www/naics.html.

Figure 2. Noncapitalized and Capitalized Expenditures for ICT Equipment and Computer Software for Companies With Employees: 2003

(Billion dollars)

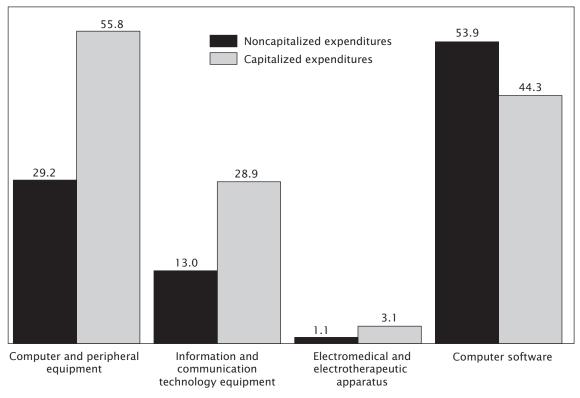


Figure 3. Noncapitalized Expenditures of ICT Equipment and Computer Software for Companies With Employees: 2003

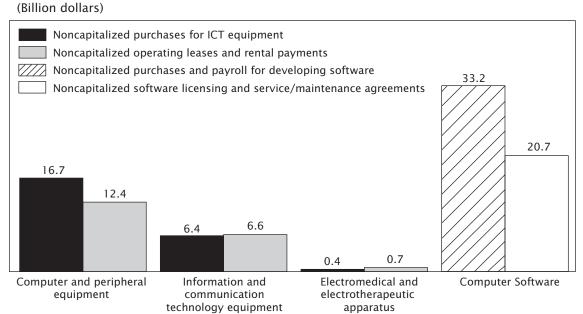


Figure 4.

Total Noncapitalized Expenditures Distribution for ICT Equipment and Computer Software for Companies With Employees: 2003

(Percent)

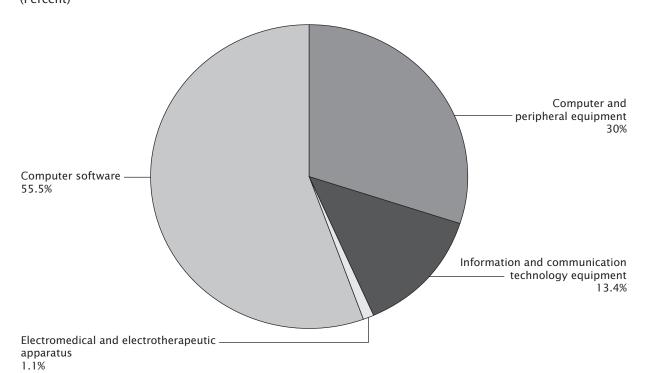


Figure 5.

Noncapitalized and Captitalized Expenditures for ICT Equipment by Selected Business Sectors for Companies With Employees: 2003

(Billion dollars)

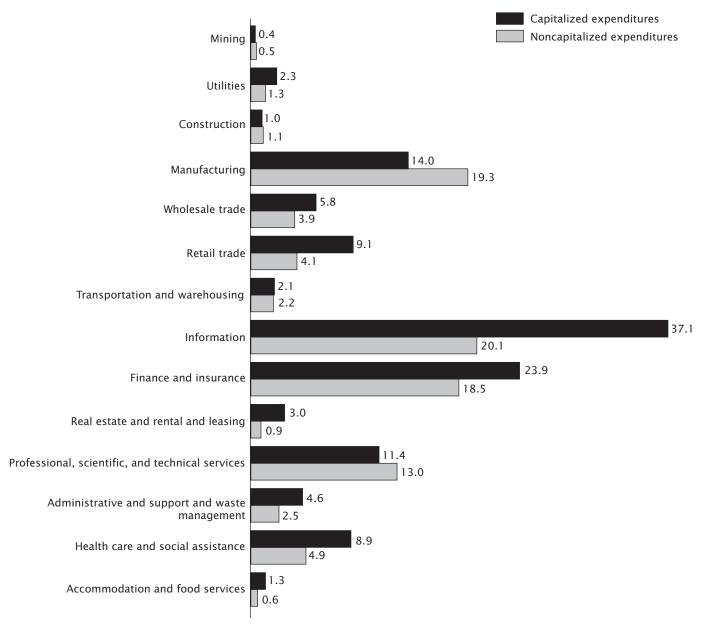


Table 1a. Expenditures for ICT Equipment and Computer Software for Companies With Employees: 2003

[Millions of current dollars. For meaning of abbreviations and symbols, see introductory text. See Appendixes A and B for definition of terms and sampling and estimation methodology]

Capital expenditures	Noncapitalized expenditures	Capitalized expenditures ¹
Total expenditures for ICT equipment and computer software	97 181	132 086
Total equipment expenditures	43 272	(NA)
Purchases	23 528	87 794
Computer and peripheral equipment Information and communication technology equipment Electromedical and electrotherapeutic apparatus	16 764 6 351 413	55 847 28 894 3 052
Operating leases and rental payments	19 744	(NA)
Computer and peripheral equipment Information and communication technology equipment Electromedical and electrotherapeutic apparatus	12 433 6 601 710	(NA) (NA) (NA)
Total computer software expenditures	53 910	(NA)
Purchases and payroll for developing software	33 167 20 742	44 292 (NA)

¹As reported in the 2003 Annual Capital Expenditures Survey.

Note: Detail may not add to total because of rounding.

Table 1b. Relative Standard Errors for Expenditures for ICT Equipment and Computer Software for Companies With Employees: 2003

[Percent. For meaning of abbreviations and symbols, see introductory text. See Appendixes A and B for definition of terms and sampling and estimation methodology]

The electric For meaning of abbreviations and symbols, see introductory text. See Appendixes A and B for definition of terms and sampling and e	- The trick of the	
Capital expenditures	Noncapitalized expenditures	Capitalized expenditures ¹
Total expenditures for ICT equipment and computer software	1.3	1.1
Total equipment expenditures	1.1	(NA)
Purchases	1.5	1.7
Computer and peripheral equipment Information and communication technology equipment Electromedical and electrotherapeutic apparatus	1.7 2.3 13.1	2.0 2.2 18.0
Operating leases and rental payments	1.6	(NA)
Computer and peripheral equipment Information and communication technology equipment Electromedical and electrotherapeutic apparatus	1.8 2.1 6.6	(NA) (NA) (NA)
Total computer software expenditures	1.9	(NA)
Purchases and payroll for developing software	2.9 0.7	1.0 (NA)

¹As reported in the 2003 Annual Capital Expenditures Survey.

Table 2a. ICT Expenditures for Companies With Employees by Major Industry Sector: 2003

[Millions of current dollars. For meaning of abbreviations and symbols, see introductory text. See Appendixes A and B for definition of terms and sampling and estimation methodology]

NAICS code	Industry	2003 noncapitalized expenditures	2003 capitalized expenditures ¹
	Total expenditures	97 181	132 086
113-115	Forestry, fishing, and agricultural services	42	53
21	Mining	530	421
22	Utilities	1 251	2 271
23	Construction	1 109	1 043
31-33 321, 327, 33 31, 322-326	Manufacturing Durable goods industries Nondurable goods industries	19 264 13 906 5 358	14 014 7 863 6 150
42	Wholesale trade	3 866	5 790
44-45	Retail trade	4 101	9 129
48-49	Transportation and warehousing	2 025	2 054
51	Information	20 051	37 088
52	Finance and insurance	18 503	23 857
53	Real estate and rental and leasing	866	3 043
54	Professional, scientific, and technical services	13 001	11 409
55	Management of companies and enterprises	665	1 258
56	Administrative and support and waste management	2 542	4 602
61	Educational services	1 589	2 255
62	Health care and social assistance	4 939	8 928
71	Arts, entertainment, and recreation	349	976
72	Accommodation and food services	602	1 338
81	Other services (except public administration)	1 338	1 980
	Equipment expenditures serving multiple industry codes	547	575

 $^{^{\}rm 1}{\rm As}$ reported in the 2003 Annual Capital Expenditures Survey.

Table 2b. Relative Standard Errors for ICT Expenditures for Companies With Employees by Major Industry Sector: 2003

[Percent. For meaning of abbreviations and symbols, see introductory text. See Appendixes A and B for definition of terms and sampling and estimation methodology]

NAICS code	Industry	2003 noncapitalized expenditures	2003 capitalized expenditures ¹
	Total expenditures	1.3	1.1
113-115	Forestry, fishing, and agricultural services	3.2	8.8
21	Mining	2.3	3.9
22	Utilities	1.6	2.7
23	Construction	9.9	6.8
31-33 321, 327, 33 31, 322-326	Manufacturing Durable goods industries Nondurable goods industries	0.8 0.9 1.2	0.7 1.0 1.2
42	Wholesale trade	11.7	5.7
44-45	Retail trade	4.4	3.9
48-49	Transportation and warehousing	8.1	2.9
51	Information	1.9	2.6
52	Finance and insurance	1.0	2.2
53	Real estate and rental and leasing	9.0	26.0
54	Professional, scientific, and technical services.	8.1	3.2
55	Management of companies and enterprises	3.5	5.1
56	Administrative and support and waste management	4.5	5.0
61	Educational services	9.5	17.4
62	Health care and social assistance	2.8	8.0
71	Arts, entertainment, and recreation	6.5	3.0
72	Accommodation and food services	8.2	6.1
81	Other services (except public administration)	6.3	9.7
	Equipment expenditures serving multiple industry codes	(Z)	1.0

¹As reported in the 2003 Annual Capital Expenditures Survey.

Table 3a. Noncapitalized Expenditures for ICT Equipment and Computer Software for Companies With Employees by Major Industry Sector: 2003

[Millions of current dollars. For meaning of abbreviations and symbols, see introductory text. See Appendixes A and B for definition of terms and sampling and estimation methodology]

-							• • • • • • • • • • • • • • • • • • • •		
			Noncapitaliz	zed equipment e	xpenditures	Noncapit	Noncapitalized computer software expenditures		
NAICS code	Industry	Total non- capitalized expendi- tures	Total	Purchases	Operating leases and rental payments	Total	Purchases and payroll for developing software	Software licensing and service/ maintenance agreements	
	Total expenditures	97 181	43 272	23 528	19 744	53 910	33 167	20 742	
113-115	Forestry, fishing, and agricultural services	42	20	14	6	22	13	9	
21	Mining	530	251	127	123	279	96	183	
22	Utilities	1 251	452	172	280	799	404	395	
23	Construction	1 109	758	533	225	351	242	109	
31-33 321, 327, 33 31, 322-326	Manufacturing Durable goods industries Nondurable goods industries	19 264 13 906 5 358	9 418 6 969 2 449	6 171 4 926 1 244	3 247 2 042 1 205	9 846 6 937 2 909	5 730 4 207 1 523	4 116 2 730 1 386	
42	Wholesale trade	3 866	1 529	937	593	2 336	1 729	607	
44-45	Retail trade	4 101	2 059	1 007	1 052	2 042	750	1 292	
48-49	Transportation and warehousing	2 025	1 233	726	507	792	414	378	
51	Information	20 051	7 161	2 300	4 860	12 891	8 287	4 604	
52	Finance and insurance	18 503	7 506	4 382	3 123	10 998	6 592	4 406	
53	Real estate and rental and leasing	866	576	354	222	290	152	138	
54	Professional, scientific, and technical services	13 001	4 970	2 827	2 144	8 030	6 268	1 763	
55	Management of companies and enterprises	665	286	115	172	378	167	211	
56	Administrative and support and waste management	2 542	1 261	505	756	1 282	589	693	
61	Educational services	1 589	1 053	714	339	536	281	255	
62	Health care and social assistance	4 939	3 141	1 666	1 476	1 798	679	1 119	
71	Arts, entertainment, and recreation	349	169	95	74	180	120	60	
72	Accommodation and food services	602	374	230	145	228	115	112	
81	Other services (except public administration)	1 338	903	576	327	435	246	190	
	Equipment expenditures serving multiple industry codes	547	150	78	72	397	294	103	

Table 3b. Relative Standard Errors for Noncapitalized Expenditures for ICT Equipment and Computer Software for Companies With Employees by Major Industry Sector: 2003

[Percent. For meaning of abbreviations and symbols, see introductory text. See Appendixes A and B for definition of terms and sampling and estimation methodology]

			Noncapitaliz	oncapitalized equipment expenditures			Noncapitalized computer software expenditures			
NAICS code	Industry	Total non- capitalized expendi- tures	Total	Purchases	Operating leases and rental payments	Total	Purchases and payroll for developing software	Software licensing and service/ maintenance agreements		
	Total expenditures	1.3	1.1	1.5	1.6	1.9	2.9	0.7		
113-115	Forestry, fishing, and agricultural services	3.2	5.7	7.1	6.7	3.5	5.5	3.3		
21	Mining	2.3	2.0	3.1	3.1	3.0	4.1	4.5		
22	Utilities	1.6	1.8	1.1	2.7	1.6	2.0	3.0		
23	Construction	9.9	9.8	9.3	18.2	17.7	26.1	7.0		
31-33 321, 327, 33 31, 322-326	Manufacturing	0.8 0.9 1.2	0.7 0.7 1.3	0.8 0.9 1.6	0.9 1.2 1.4	1.4 1.7 1.3	2.0 2.5 1.4	0.9 0.9 1.4		
42	Wholesale trade	11.7	5.2	7.1	5.7	18.2	24.5	7.1		
44-45	Retail trade	4.4	6.6	11.2	7.6	4.4	4.7	6.0		
48-49	Transportation and warehousing	8.1	13.3	11.3	24.6	3.4	5.8	2.3		
51	Information	1.9	3.0	3.8	3.3	2.0	3.1	0.9		
52	Finance and insurance	1.0	1.6	3.0	2.1	1.1	1.3	1.9		
53	Real estate and rental and leasing	9.0	11.7	14.5	21.3	6.5	7.6	8.3		
54	Professional, scientific, and technical services	8.1	3.4	4.4	4.3	12.0	15.2	3.3		
55	Management of companies and enterprises	3.5	5.0	6.9	5.5	3.1	2.8	3.5		
56	Administrative and support and waste management	4.5	5.4	6.7	6.3	4.8	10.0	4.8		
61	Educational services	9.5	10.1	8.0	25.0	9.9	9.6	11.6		
62	Health care and social assistance	2.8	3.6	5.7	4.4	3.2	3.8	5.1		
71	Arts, entertainment, and recreation	6.5	10.6	8.5	20.4	3.2	1.7	9.1		
72	Accommodation and food services	8.2	12.1	11.5	17.2	5.1	6.7	7.6		
81	Other services (except public administration)	6.3	6.3	7.7	9.5	7.9	9.8	8.5		
	Equipment expenditures serving multiple industry codes	(Z)	0.1	0.2	_	_	_	_		

Table 3c. Capitalized Expenditures for ICT Equipment and Computer Software for Companies With Employees by Major Industry Sector: 2003

[Data based on the 2003 Annual Capital Expenditures Survey (ACES). Millions of current dollars. For meaning of abbreviations and symbols, see introductory text. See Appendixes A and B for definition of terms and sampling and estimation methodology]

NAICS code	Industry	Total capitalized expenditures	Capitalized equipment expenditures	Capitalized computer software expenditures
	Total expenditures	132 086	87 794	44 292
113-115	Forestry, fishing, and agricultural services	53	39	14
21	Mining	421	175	246
22	Utilities	2 271	963	1 308
23	Construction	1 043	722	321
31-33 321, 327, 33 31, 322-326	Manufacturing Durable goods industries Nondurable goods industries	14 014 7 863 6 150	6 794 4 423 2 371	7 220 3 440 3 779
42	Wholesale trade	5 790	3 552	2 238
44-45	Retail trade	9 129	6 508	2 621
48-49	Transportation and warehousing	2 054	1 015	1 039
51	Information	37 088	29 140	7 949
52	Finance and insurance	23 857	13 142	10 715
53	Real estate and rental and leasing	3 043	2 417	627
54	Professional, scientific, and technical services	11 409	8 556	2 853
55	Management of companies and enterprises	1 258	844	414
56	Administrative and support and waste management	4 602	2 661	1 942
61	Educational services	2 255	1 668	586
62	Health care and social assistance	8 928	6 165	2 764
71	Arts, entertainment, and recreation	976	689	287
72	Accommodation and food services	1 338	990	348
81	Other services (except public administration)	1 980	1 369	611
	Equipment expenditures serving multiple industry codes	575	385	190

Table 3d. Relative Standard Errors for Capitalized Expenditures for ICT Equipment and Computer Software for Companies With Employees by Major Industry Sector: 2003

[Data based on the 2003 Annual Capital Expenditures Survey (ACES). Percent. For meaning of abbreviations and symbols, see introductory text. See Appendixes A and B for definition of terms and sampling and estimation methodology]

NAICS code	Industry	Total capitalized expenditures	Capitalized equipment expenditures	Capitalized computer software expenditures
	Total expenditures	1.1	1.7	1.0
113-115	Forestry, fishing, and agricultural services	8.8	9.6	9.3
21	Mining	3.8	2.8	5.4
22	Utilities	2.7	2.9	2.9
23	Construction	6.8	9.8	10.5
31-33 321, 327, 33 31, 322-326	Manufacturing	0.7 1.0 1.2	1.1 1.3 2.2	0.8 1.4 0.8
42	Wholesale trade	5.7	6.0	8.1
44-45	Retail trade	3.9	5.7	3.2
48-49	Transportation and warehousing	2.8	3.4	4.7
51	Information	2.6	3.2	2.3
52	Finance and insurance	2.2	2.6	2.4
53	Real estate and rental and leasing	26.0	29.3	14.5
54	Professional, scientific, and technical services	3.2	4.1	3.9
55	Management of companies and enterprises	5.1	6.6	4.5
56	Administrative and support and waste management	5.0	8.0	6.2
61	Educational services	17.4	16.5	24.0
62	Health care and social assistance	8.0	9.8	5.2
71	Arts, entertainment, and recreation	3.0	4.3	3.0
72	Accommodation and food services	6.1	8.2	2.7
81	Other services (except public administration)	9.7	9.5	14.4
	Equipment expenditures serving multiple industry codes	1.0	1.2	0.8

Table 4a. Noncapitalized Expenditures for Type of ICT Equipment for Companies With Employees by Major Industry Sector: 2003

[Millions of current dollars. For meaning of abbreviations and symbols, see introductory text. See Appendixes A and B for definition of terms and sampling and estimation methodology]

				Noncapitalize	ed purchases		Noncapital	ized operating I	eases and renta	al payments
NAICS code	Industry	Total non- capitalized equipment expendi- tures	Total purchases	Computer and peripheral equipment	Information and communi- cation technology equipment	Electro- medical and electro- therapeutic apparatus	Total operating leases and rental payments	Computer and peripheral equipment	Information and communi- cation technology equipment	Electro- medical and electro- therapeutic apparatus
	Total expenditures	43 272	23 528	16 764	6 351	413	19 744	12 433	6 601	710
113-115	Forestry, fishing, and agricultural services	20	14	10	3	1	6	4	1	1
21	Mining	251	127	74	53	(Z)	123	67	56	_
22	Utilities	452	172	97	75	(Z)	280	231	50	=
23	Construction	758	533	353	179	1	225	173	53	(Z)
31-33 321, 327, 33 31, 322-326	Manufacturing	9 418 6 969 2 449	6 171 4 926 1 244	5 318 4 426 892	835 495 340	18 6 13	3 247 2 042 1 205	2 426 1 512 913	817 528 289	5 2 3
42	Wholesale trade	1 529	937	751	180	5	593	406	184	3
44-45	Retail trade	2 059	1 007	819	186	1	1 052	845	205	3
48-49	Transportation and warehousing	1 233	726	410	316	(Z)	507	357	150	(Z)
51	Information	7 161	2 300	1 541	754	6	4 860	1 904	2 956	(Z)
52	Finance and insurance	7 506	4 382	2 245	2 133	5	3 123	2 321	797	5
53	Real estate and rental and leasing	576	354	241	112	1	222	136	86	_
54	Professional, scientific, and technical services	4 970	2 827	2 208	562	57	2 144	1 668	459	17
55	Management of companies and enterprises .	286	115	85	30	(Z)	172	122	50	(Z)
56	Administrative and support and waste management	1 261	505	323	172	10	756	574	180	2
61	Educational services	1 053	714	581	131	2	339	255	84	(Z)
62	Health care and social assistance	3 141	1 666	1 013	355	298	1 476	516	288	673
71	Arts, entertainment, and recreation	169	95	72	23	(Z)	74	43	31	(Z)
72	Accommodation and food services	374	230	148	81	(Z)	145	103	40	2
81	Other services (except public administration)	903	576	422	152	2	327	232	95	(Z)
	Equipment expenditures serving multiple industry codes	150	78	54	19	5	72	52	20	_

Table 4b. Relative Standard Errors for Noncapitalized Expenditures for Type of ICT Equipment for Companies With Employees by Major Industry Sector: 2003

[Percent. For meaning of abbreviations and symbols, see introductory text. See Appendixes A and B for definition of terms and sampling and estimation methodology]

				Noncapitalize	ed purchases		Noncapitalized operating leases and rental payments			
NAICS code	Industry	Total non- capitalized equipment expendi- tures	Total purchases	Computer and peripheral equipment	Information and communi- cation technology equipment	Electro- medical and electro- therapeutic apparatus	Total operating leases and rental payments	Computer and peripheral equipment	Information and communi- cation technology equipment	Elector- medical and elector- therapeutic apparatus
	Total expenditures	1.1	1.5	1.7	2.3	13.1	1.6	1.8	2.1	6.6
113-115	Forestry, fishing, and agricultural services	5.7	7.1	8.2	14.7	_	6.7	8.1	21.9	-
21	Mining	2.0	3.1	3.8	4.8	_	3.1	0.5	6.9	_
22	Utilities	1.8	1.1	1.9	0.9	49.8	2.7	3.2	2.1	_
23	Construction	9.8	9.3	7.2	21.1	39.2	18.2	23.8	27.0	_
31-33 321, 327, 33 31, 322-326	Manufacturing	0.7 0.7 1.3	0.8 0.9 1.6	0.7 0.7 2.2	2.6 4.5 1.3	14.7 46.7 1.9	0.9 1.2 1.4	0.9 1.0 1.5	2.6 3.9 2.2	13.2 2.5 21.6
42	Wholesale trade	5.2	7.1	8.3	7.1	97.6	5.7	5.5	11.4	51.7
44-45	Retail trade	6.6	11.2	12.0	11.1	59.3	7.6	8.2	7.5	52.6
48-49	Transportation and warehousing	13.3	11.3	18.9	3.0	6.3	24.6	34.2	8.1	93.1
51	Information	3.0	3.8	2.8	8.0	52.3	3.3	3.1	4.4	16.5
52	Finance and insurance	1.6	3.0	5.1	1.4	7.0	2.1	2.6	2.5	-
53	Real estate and rental and leasing	11.7	14.5	16.3	12.6	99.8	21.3	24.5	38.1	-
54	Professional, scientific, and technical services	3.4	4.4	3.4	14.6	19.6	4.3	4.4	11.9	22.5
55	Management of companies and enterprises .	5.0	6.9	9.3	2.4	-	5.5	4.5	16.3	-
56	Administrative and support and waste management	5.4	6.7	8.6	9.2	28.1	6.3	8.2	9.1	49.7
61	Educational services	10.1	8.0	7.8	10.3	_	25.0	31.9	41.1	-
62	Health care and social assistance	3.6	5.7	6.4	7.9	16.8	4.4	9.1	7.9	6.9
71	Arts, entertainment, and recreation	10.6	8.5	10.3	10.1	3.9	20.4	27.2	20.3	9.7
72	Accommodation and food services	12.1	11.5	11.0	15.9	-	17.2	24.1	16.4	-
81	Other services (except public administration)	6.3	7.7	8.1	17.8	47.6	9.5	12.4	12.0	76.2
	Equipment expenditures serving multiple industry codes	0.1	0.2	0.1	0.3	_	_	-	_	_

Table 4c. Capitalized Expenditures for Type of ICT Equipment for Companies With Employees by Major Industry Sector: 2003

[Data based on the 2003 Annual Capital Expenditures Survey (ACES). Millions of current dollars. For meaning of abbreviations and symbols, see introductory text. See Appendixes A and B for definition of terms and sampling and estimation methodology]

			Capitalized equipment expenditures					
NAICS code	Industry	Total capitalized equipment expenditures	Total purchases	Computer and peripheral equipment	Information and communication technology equipment	Electromedical and electrotherapeutic apparatus		
	Total expenditures	132 086	87 794	55 847	28 894	3 052		
113-115	Forestry, fishing, and agricultural services	53	39	31	8	-		
21	Mining	421	175	156	19	-		
22	Utilities	2 271	963	651	312	1		
23	Construction	1 043	722	651	71	(Z)		
31-33 321, 327, 33 31, 322-326	Manufacturing Durable goods industries Nondurable goods industries	14 014 7 863 6 150	6 794 4 423 2 371	5 912 3 768 2 144	751 547 205	131 109 22		
42	Wholesale trade	5 790	3 552	3 092	308	151		
44-45	Retail trade	9 129	6 508	5 606	894	9		
48-49	Transportation and warehousing	2 054	1 015	918	97	(Z)		
51	Information	37 088	29 140	7 804	21 335	(Z)		
52	Finance and insurance	23 857	13 142	11 257	1 872	13		
53	Real estate and rental and leasing.	3 043	2 417	2 045	367	4		
54	Professional, scientific, and technical services	11 409	8 556	7 664	797	94		
55	Management of companies and enterprises	1 258	844	709	133	2		
56	Administrative and support and waste management	4 602	2 661	2 014	637	9		
61	Educational services	2 255	1 668	1 254	145	269		
62	Health care and social assistance	8 928	6 165	3 278	521	2 366		
71	Arts, entertainment, and recreation	976	689	553	135	1		
72	Accommodation and food services	1 338	990	805	185	(Z)		
81	Other services (except public administration)	1 980	1 369	1 075	293	2		
	Equipment expenditures serving multiple industry codes	575	385	371	14	-		

Table 4d. Relative Standard Errors for Capitalized Expenditures for Type of ICT Equipment for Companies With Employees by Major Industry Sector: 2003

[Data based on the 2003 Annual Capital Expenditures Survey (ACES). Percent. For meaning of abbreviations and symbols, see introductory text. See Appendixes A and B for definition of terms and sampling and estimation methodology]

				Capitalized equip	ment expenditures	
NAICS code	Industry	Total capitalized equipment expenditures	Total purchases	Computer and peripheral equipment	Information and communication technology equipment	Electromedical and electrotherapeutic apparatus
	Total expenditures	1.1	1.7	2.0	2.2	18.0
113-115	Forestry, fishing, and agricultural services	8.8	9.6	12.1	8.3	-
21	Mining	3.8	2.8	2.9	4.8	-
22	Utilities	2.7	2.9	3.4	5.9	-
23	Construction.	6.8	9.8	10.8	12.2	97.0
31-33 321, 327, 33 31, 322-326	Manufacturing Durable goods industries Nondurable goods industries	0.7 1.0 1.2	1.1 1.3 2.2	1.3 1.6 2.5	2.2 3.1 2.0	3.2 3.9 2.4
42	Wholesale trade	5.7	6.0	4.4	31.0	96.7
44-45	Retail trade	3.9	5.7	2.6	33.6	67.3
48-49	Transportation and warehousing	2.8	3.4	3.6	8.3	42.7
51	Information	2.6	3.2	10.1	3.1	_
52	Finance and insurance	2.2	2.6	3.0	3.2	85.5
53	Real estate and rental and leasing	26.0	29.3	34.9	18.0	88.3
54	Professional, scientific, and technical services	3.2	4.1	4.8	13.1	42.9
55	Management of companies and enterprises	5.1	6.6	7.9	2.3	_
56	Administrative and support and waste management	5.0	8.0	10.1	8.8	85.1
61	Educational services	17.4	16.5	9.6	9.1	81.0
62	Health care and social assistance	8.0	9.8	5.0	4.6	19.9
71	Arts, entertainment, and recreation	3.0	4.3	4.5	5.5	63.8
72	Accommodation and food services	6.1	8.2	10.2	10.8	77.6
81	Other services (except public administration)	9.7	9.5	7.5	26.3	64.3
	Equipment expenditures serving multiple industry codes	1.0	1.2	1.3	1.6	_

Appendix A. Definition of Terms

NONCAPITALIZED EXPENDITURES

Noncapitalized expenditures include expenses made during the year for ICT equipment including computer software **not** charged to asset accounts for which depreciation or amortization accounts are ordinarily maintained. Noncapitalized expenditures include purchases, operating leases and rental payments for ICT equipment, purchases and payroll for developing computer software, and software licensing and service/maintenance agreements. Such expenses generally fall below a firm's capitalization threshold and are immediately written off and charged to expense accounts as incurred.

CAPITALIZED EXPENDITURES

Capitalized expenditures include all expenditures during the year for ICT equipment including computer software chargeable to asset accounts for which depreciation or amortization accounts are ordinarily maintained. For projects lasting more than one year, this definition includes gross additions of ICT equipment to construction-in-progress accounts even if the equipment was not in use and not yet depreciated. For capital leases, the company using the asset (lessee) is asked to include the cost or present value of the leased equipment in the year in which the lease was entered.

PURCHASES

Purchases include acquisitions and upgrades of equipment.

OPERATING LEASES AND RENTAL PAYMENTS

Operating Leases and Rental Payments refer to payments made in exchange for use of equipment with no transfer of ownership. In multi-year agreements, only expenses for the current year are included.

COMPUTER AND PERIPHERAL EQUIPMENT

Computer and peripheral equipment include mainframes, personal computers, laptops, workstations, terminals, computer servers, printers, plotters, monitors, storage devices, personal digital assistants (PDAs), automatic teller machines (ATMs), point-of-sale terminals, etc.

INFORMATION AND COMMUNICATION TECHNOLOGY EQUIPMENT

Information and communication technology equipment include central office switching equipment, telephones and telephone apparatus, facsimile equipment, bridges,

routers, gateways, portable transmitting and receiving antennas, communication satellites, cable television equipment, global positioning system (GPS) equipment, radio and television studio broadcasting equipment, fire detection and alarm systems, intercom systems, etc.

ELECTROMEDICAL AND ELECTROTHERAPEUTIC APPARATUS

Electromedical and electrotherapeutic apparatus include magnetic resonance imaging equipment, electrocardiographs, medical ultrasound equipment, electromedical endoscopic equipment, defibrillators, etc.

COMPUTER SOFTWARE EXPENDITURES

Computer software expenditures include purchases and payroll for developing software, and software licensing and service/maintenance agreements.

PURCHASES AND PAYROLL FOR DEVELOPING SOFTWARE

Purchases and payroll for developing software refers to acquisitions and/or upgrades for computer software. Computer software purchases (prepackaged, vendor-customized, and internally-developed) and payroll consist of costs of materials and services directly related to the development or acquisition of software, payroll and payroll-related costs for employees directly associated with software development, and interest costs incurred while developing the software. Purchased computer services are included only if they related to vendor-customized software or adaptation to existing software.

Capitalized computer software is defined by the criteria in Statement of Position 98-1, Accounting for the Costs of Computer Software Developed or Obtained for Internal Use.

SOFTWARE LICENSING AND SERVICE/MAINTENANCE AGREEMENTS

Software licensing and service/maintenance agreements refer to expenses for software acquired under operating leases, site and seat licenses, and software service/maintenance agreements.

Appendix B. Sampling and Estimation Methodologies

The estimates in this report are based on a stratified simple random sample. The sample consists of 45,994 companies with paid employees (determined by the presence of payroll) in 2002.

The scope of the survey was defined to include all private, nonfarm, domestic companies. Major exclusions from the frame were government-owned operations (including the U.S. Postal Service), foreign-owned operations of domestic companies, establishments located in U.S. Territories, establishments engaged in agricultural production (not agricultural services), and private households.

The 2002 Business Register (BR) was used to develop the 2003 sample frame. The BR is the U.S. Census Bureau's establishment-based database. The database contains records for each physical business entity with payroll located in the United States, including company ownership information and current-year administrative data. In creating the frame, establishment data in the BR file were consolidated to create company-level records. Employment and payroll information was maintained for each six-digit North American Industry Classification System¹ (NAICS) industry in which the company had activity. Next, payroll data for each company-level record were run through an algorithm to assign the company, first to an industry sector (i.e., manufacturing, construction, etc.), then to a subsector (three-digit NAICS code), then to an industry group (four-digit NAICS code), then to an industry (five-digit NAICS code), and finally to a sample industry code based on the industry. The resulting sample frame contained slightly more than 5.7 million companies.

The 2003 sampling frame consists of a certainty portion and a noncertainty portion. The 16,970 companies with 500 or more employees were selected with certainty. The remaining companies with 1 to 499 employees were then grouped into 132 industry categories. Each industry was then further divided into four strata. Since noncapitalized expenditures data were not available on the sampling

frame, 2002 payroll was used as the stratification variable. The stratification methodology resulted in minimizing the sample- size subject to a desired level of reliability for each industry. The expected relative standard errors (RSEs) ranged from 1 to 3 percent.

ESTIMATION

Each company selected for the survey has a sample weight which is the inverse of its probability of selection. All sampled companies within the same stratum and industry grouping have the same weight. Weights were increased to adjust for nonresponse. The coverage rate for all companies was 78.0 percent. The coverage rate is calculated by multiplying 100 by the ratio of the noncapitalized expenditures of all reporting companies weighted by the original sample weights, to the noncapitalized expenditures of all reporting companies weighted by the adjusted-for-nonresponse sample weights. Weight adjustment and publication estimation are described in the following subsections.

Weight Adjustment

For estimation purposes, each company was placed into 1 of 4 response-related categories:

- 1. Respondents.
- 2. Nonrespondents.
- 3. Not in business.
- 4. Known duplicates.

A company was considered a respondent or nonrespondent based on whether the company provided sufficient data in items 1, 2, or 3 of the survey form. Companies that went out of business prior to 2003 and duplicates were dropped from the survey. Companies that went out of business during the survey year were kept in the sample and efforts were made to collect data for the period the company was active.

The following discussion assumes 660 strata (strata designation h = 1, 2, ..., 660) which are based on 132 industries, each containing five strata (including the certainty stratum).

¹North American Industry Classification System (NAICS) – United States, 1997. For sale by National Technical Information Service (NTIS), Springfield, VA 22161. Call NTIS at 1-800-553-6847

The original stratum weights (Wh) were adjusted to compensate for nonresponse. The adjusted weight is computed as follows:

 $W_{h \text{ (adj)}} = W_h * \frac{(P_{hr} + P_{hn})}{(P_{hr})}$

where,

 $W_{h(adj)}$ is the adjusted stratum weight of the hth stratum

is the original stratum weight of the hth stratum

is the population size of the hth

is the sample size of the hth stra n_h

 P_{hr} is the sum of total company payroll for respondent companies in

stratum h

 P_{hn} is the sum of total company payroll for nonrespondent companies

in stratum h

Publication Estimation

Publication cell estimates were computed by obtaining a weighted sum of reported values for companies treated as respondents. For those strata undergoing nonresponse adjustment, the estimates for Xi are biased, since this method assumes that nonresponse is not a purely random event. No attempt was made to estimate the magnitude of this bias.

The estimates were derived as follows. Each estimated cell total, \hat{X}_i , is of the form

$$\hat{X}_j = \sum_{h=1}^{660} \ \sum_{i \in h} \ (W_{h(adj)} {}^* \ X_{(j),i,h})$$

where.

is the adjusted weight of the hth $W_{h(adi)}$

is the value attributed to the ith $X_{(i),i,h}$

company of stratum h, where j is the publication cell of interest.

Note: Although a company was assigned to and sampled in one sample industry, it could report expenditures in multiple industries. When this occurred, the reported data for all industries were inflated by the weight in the sample industry.

RELIABILITY OF THE ESTIMATES

The data shown in this report are estimated from a sample and will differ from the data which would have been obtained from a complete census. Two types of possible errors are associated with estimates based on data from sample surveys: sampling errors and nonsampling errors.

The accuracy of a survey result depends not only on the sampling errors and nonsampling errors measured, but also on the nonsampling errors not explicitly measured. For particular estimates, the total error may considerably exceed the measured errors.

Sampling Variability

The sample used in this survey is one of many possible samples that could have been selected using the sampling methodology described earlier. Each of these possible samples would likely yield different results. The RSE is a measure of the variability among the estimates from these possible samples. The RSEs were calculated using a deletea-group jackknife replicate variance estimator. The RSE accounts for sampling variability but does not account for nonsampling error or systematic biases in the data. Bias is the difference, averaged over all possible samples of the same design and size, between the estimate and the true value being estimated.

The RSEs presented in the tables can be used to derive the SE of the estimate. The SE can be used to derive interval estimates with prescribed levels of confidence that the interval includes the average results of all samples:

- a. intervals defined by one SE above and below the sample estimate will contain the true value about 68 percent of the time,
- b. intervals defined by 1.6 SE above and below the sample estimate will contain the true value about 90 percent of the time.
- c. intervals defined by two SEs above and below the sample estimate will contain the true value about 95 percent of the time.

The SE of the estimate can be calculated by multiplying the RSE presented in the tables by the corresponding estimate. Note, the RSE is the measure of variability presented for all estimates in this publication. Also note that RSEs in this publication are in percentage form. They must be divided by 100 before being multiplied by the corresponding estimate. For example, using data from Tables 4a and 4b, the SE for total nondurable manufacturing noncapitalized expenditures would be calculated as follows:

$$\hat{\sigma}(\hat{X}_j) = \left[\frac{\text{RSE}(\hat{X}_j)}{100}\right]^* X_j = \left(\frac{1.3}{100}\right)^* \$2,449 \text{ million} = \$32$$

The 90-percent confidence interval can be constructed by multiplying 1.6 by the SE, adding this value to the estimate to create the upper bound, and subtracting it from the estimate to create the lower bound.

$$\hat{X}_{j} \pm [1.6 * \hat{\sigma} (\hat{X}_{j})]$$

Using data from Table 4a, for nondurable manufacturing noncapitalized expenditures, a 90-percent confidence interval would be calculated as:

 $2,449 \text{ million} \pm 1.6(32) = 2,449 \pm 51 \text{ million}$

Nonsampling Error

All surveys and censuses are subject to nonsampling errors. Nonsampling errors can be attributed to many sources: inability to obtain information about all companies in the sample; inability or unwillingness on the part of respondents to provide correct information; response errors; definition difficulties; differences in the interpretation of questions; mistakes in recording or coding the

data; and other errors of collection, response, coverage, and estimation for nonresponse.

Explicit measures of the effects of these nonsampling errors are not available. However, to minimize nonsampling error, all reports were reviewed for reasonableness and consistency, and every effort was made to achieve accurate response from all survey participants.

Coverage errors may have a significant effect on the accuracy of estimates for this survey. The BR, which forms the basis of our survey universe frame, may not contain all businesses. Also, businesses that are contained in the BR may have their payroll misreported.

Appendix C. Survey Forms and Instructions

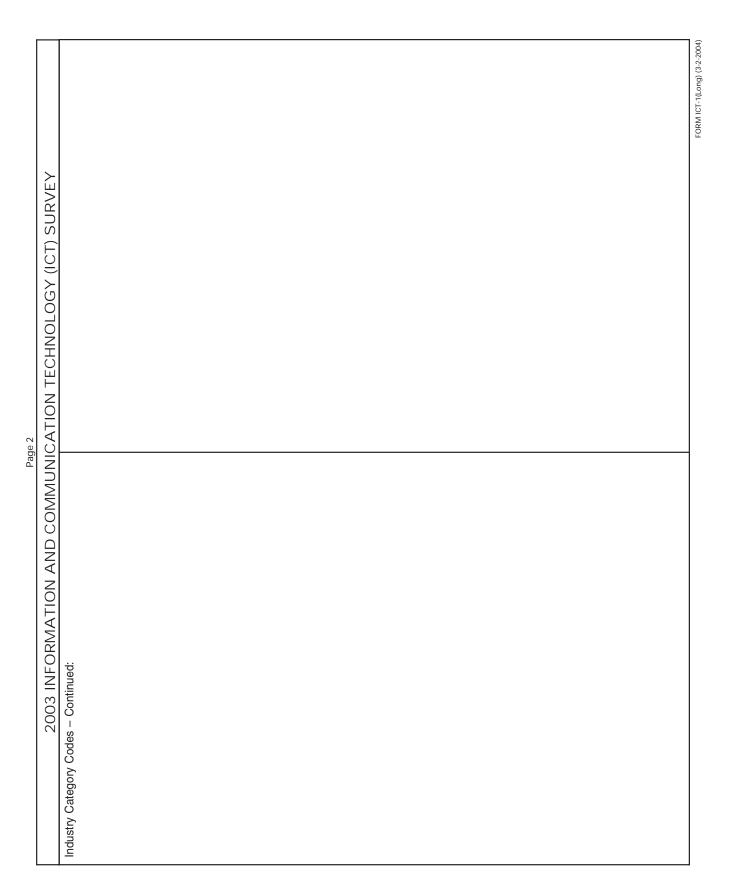
2003	Information	and Commun	ication Ted	chnology S	Survey (I	CT-1 (Long))	C-	-2
2003	Instructions.	Definitions.	and Codes	List (ICT-1	())		C-1	2

OMB No. 0607-0909: Approval Expires 03/31/2005

U.S. DEPARTMENT OF COMMERCE Economics and Statistics Administration U.S. CENSUS BUREAU (Please correct any errors in name, address, and ZIP Code.) COMMUNICATION FECHNOLOGY (ICT) SURVEY 2003 INFORMATION AND Refer to the list of industry codes and descriptions beginning on page 5 of the Instructions and Industry Category Codes List Manual. correct the above industry category code(s) to Printed above are the industries in which we believe your company operates. If necessary, reflect your company's operations. Industry Category Codes: FORM ICT-1(Long) (3-2-2004)

YOUR RESPONSE IS REQUIRED BY LAW. Title 13, United States Code, requires businesses and other organizations that receive this questionnaire to answer the questions and return the report to the U.S. Census Bureau. By the same law, YOUR REPORT IS CONFIDENTIAL. It may be seen only by persons sworn to uphold the confidentiality of Census Bureau information and may be used only for statistical purposes. Further, copies retained in respondents' files are immune from legal process.

Respondents are not required to respond to any information collection unless it displays a valid approval number from the Office of Management and Budget. This 8-digit number appears at the top of this page.



FROM THE DIRECTOR U.S. CENSUS BUREAU

We are conducting the Information and Communication Technology (ICT) Survey, and we would like you to help by completing the enclosed survey form. The Information and Communication Technology Survey will supplement the Annual Capital Expenditures Survey (ACES) and be a key source of information about our country's economic performance. These data are very important for calculating the investment component of gross domestic product. Investment data are useful for identifying business opportunities, product development and strategic planning. Title 13 of the United States Code requires you to answer this survey, and it also requires us to keep your response confidential

importance of your response in providing accurate data about our Nation's economic performance. We We realize that completing this survey is a burden for you. We hope, however, that you appreciate the have limited the survey sample to the fewest possible number of representative firms, and we accept estimates if book figures are not available Please review the instructions, complete the form, and return it within 30 days. The instructions can assist you on how to report for each item. Returning your form promptly helps us keep follow-up costs down. If you have any questions or comments, please call us toll-free at 1-800-528-3049.

Thank you in advance for your cooperation.

Sincerely,

Charles Louis Kincannon

Enclosure

DEFINITIONS AND GENERAL INSTRUCTIONS

 Reasonable estimates are acceptable PLEASE REFER TO THE ENCLOSED INSTRUCTIONS AND NDUSTRY CATEGORY CODES LIST MANUAL

• SURVEY SCOPE – This survey collects expenditure data for nonfarm companies, organizations, and associations operating within the United States. Information for agricultural production operations should be excluded. However, companies performing agricultural services are included. Information for churches, non-profit organizations, and organizations that are government owned but privately operated, should be included.

 SURVEY PERIOD – Report data for calendar year 2003. Refer to page 1 of the instruction manual if your records are on a fiscal year basis. If your company ceased operations during the survey year, complete the form for the period of time the company was in operation.

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\$Dol

• Please complete and return the form in the envelope provided by the due date shown on the top of the page with your mailing address. To request another survey form or an extension of time for filing, call 1–800–528–3049.

To return the form by FAX, fax to 1-800-438-8040.

• If you have any questions regarding this survey or need help completing it, call 1-800-528-3049.

agreements for software. Exclude one-time purchases or upgrades of software (page 4).

Page 4

SAMPLE COPY DO NOT SUBMIT.

This is a guide for completing the form. It is intended to supplement the enclosed instruction booklet. Use the page numbers on this guide to

of ownership, e.g. rent and equipment with no transfer reporting period. Exclude capital leases (page 2). operating lease payments. agreements, report only the figure for the 2003 exchange for use of In multi-year rental payments made in equipment, report For each type of Non-capitalized Operating Leases and Rental Payments (Excluding maintenance and repairs (305) Complete a separate page for each industry in which this company operated and had non-capitalized ICT expenditures in 2003.
 The list of industry Category Codes on the cover page are the industries in which we expected this company to have operations in 2003.
 If you had expenditures in more than 5 industries, photocopy this page for additional space.
 If your company did not have any non-capitalized ICT expenditures for the 2003 reporting period, enter "0" in the appropriate cell(s). 2003 TAFQRMATION AND COMMUNICATION TECHNOLOGY (ICT) SURVEY coperations only. For more information, refer to: http://www.census.gov/csd/ict reference more detailed descriptions in the instruction booklet Non-capitalized Purchases (Excluding purchased computer and communication services and maintenance and repairs) • Computer-and Peripheral Equipment.
Malfixquas, personad, computers, laptops, workstatons, terminals, computer seyers, printers-plotters, monitors, storage devices, personal-digital assistants-RDAs), automant-teller machines (ATMs), point of sale terminals, etc. Central office switching equipment, telephones (wired and wireless) and telephone apparations, fascining equipment, forldges, course, gateways, portable transmitting and receiving antennas, communications satellities, cable television equipment, global positioning system (GPS) equipment, radio and television equipment, area dio and television studio broadcasting equipment, fire detection and alarm systems, intercom systems, etc. medical Information and Communication Technology Eddipment Excluding Computer and Peripheral Equipment Magnetic resonance imaging equipment, electrocardiographs, ultrasound equipment, electromedical endoscopic equipment, ultrasound equipment, etc. Electromedical and Electrotherapeutic Apparatus Enter Industry Category Code from cover page equiprient. It is agreements, refer to the instructions booklet, page 2. ITEM2 ECHIPMENT EXPENDITURES (Report Computer Saturate in Item 3) Report for all domestic operations only. Reasonable estimates are acceptable. de depreciation. TEM 1 313 316 depreciation account has been equipment. If there are service repairs and items for which a purchases and upgrades of each industry in which Complete one form for the company operates Report non-capitalized established (page 2). (page 2)

agreement to renew on a regular basis, e.g. In this cell, report expenses incurred on an ongoing basis according to contractual agreements. Include site and seat licenses for software if they are part of an applications, etc. Also include service operating systems, tax-preparation

Non-capitalized Software Licen and Service/Maintenance Agreements (Including leased software)

Non-capitalized Purchases and Payroll for Developing Software (Excluding maintenance and repairs)

\$Dol.

(106)

Computer Software (Including Payroll for Developing Software)

• Prepaged (off-the-shelf), vendor customized, and internally developed software.

COMPUTER SOFTWARE EXPENDITURES (Including Payroll for Developing Software)

ITEM 3

318

Costs related to software development (for internal use and/or resale) including loaded payroll (salaries, wages, benefits, and bonuses).

Exclude other IT payroll.

include operating systems, applications, back-office software, etc. (page 3). Also include the portion of loaded payroll directly related to software development (whether the developed software is for internal use or resale). Such payroll figures include salaries, wages, benefits, and bonuses. Exclude payroll Include site and seat licenses if purchased on a one-time or periodic basis;

in this cell, report one-time or periodic purchases or upgrades for software. related to other IT functions (page 4). Page 5

2003 INFORMATION AND COMMUNICATION TECHNOLOGY (ICT) SURVEY Non-capitalized Expenses

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Enter Industry Category Code from cover page

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ala ca	Information and Communication Technology Equipment, Excluding Computer and Peripheral Equipment Computer and Peripheral Equipment Central office switching equipment, telephones (wired and wireless) and telephone apparatus, facsimile equipment, bridges, routers, gateways, portable transmitting and receiving antennas, communications satellites, cable television equipment, global positioning system (GPS) equipment, radio and television studio broadcasting equipment, fire detection and alarm systems, intercom systems, etc.							
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JRES are)

- Prepackaged (off-the-shelf), vendor customized, and internally developed Computer Software (Including Payroll for Developing Software) software.
- Costs related to software development (for internal use and/or resale) including loaded payroll (salaries, wages, benefits, and bonuses).
- Exclude other IT payroll.

FORM ICT-1(Long) (3-2-2004)

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http://www.census.gov/csd/ict

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Page 6

Non-capitalized Software Licensing and Service/Maintenance \$Dol. \$Dol. apitalized Operating Leases and Rental Payments (Excluding maintenance and repairs) Agreements (Including leased software) \$Thou. \$Thou. (902)(905)Non-capitalized The list of Industry Category Codes on the cover page are the industries in which we expected this company to have operations in 2003. If your company did not have any non-capitalized ICT expenditures for the 2003 reporting period, enter "0" in the appropriate cell(s). 2003 INFORMATION AND COMMUNICATION TECHNOLOGY (ICT) SURVEY \$Mil. \$Mil. • Complete a separate page for each industry in which this company operated and had non-capitalized ICT expenditures in 2003. \$Dol. \$Dol. (Excluding purchased computer and communication services and Non-capitalized Purchases and Payroll for Developing Software (Excluding maintenance and repairs) Non-capitalized Purchases maintenance and repairs) \$Thou. \$Thou. (001) (901)Non-capitalized Expenses \$Mil. \$Mil. Prepackaged (off-the-shelf), vendor customized, and internally developed digital assistants (PDAs), automatic teller machines (ATMs), point of sale telephone apparatus, facsimile equipment, bridges, routers, gateways, portable transmitting and receiving antennas, communications satellites, Central office switching equipment, telephones (wired and wireless) and computer servers, printers, plotters, monitors, storage devices, personal cable television equipment, global positioning system (GPS) equipment, Costs related to software development (for internal use and/or resale) including loaded payroll (salaries, wages, benefits, and bonuses). radio and television studio broadcasting equipment, fire detection and Magnetic resonance imaging equipment, electrocardiographs, medical Mainframes, personal computers, laptops, workstations, terminals, Computer Software (Including Payroll for Developing Software) Information and Communication Technology Equipment, ultrasound equipment, electromedical endoscopic equipment Electromedical and Electrotherapeutic Apparatus **Excluding Computer and Peripheral Equipment** COMPUTER SOFTWARE EXPENDITURES Including Payroll for Developing Software) Enter Industry Category Code from cover page Report Computer Software in Item 3) Computer and Peripheral Equipment alarm systems, intercom systems, etc. EQUIPMENT EXPENDITURES Report for all domestic operations only. Reasonable estimates are acceptable. **Exclude other IT payroll** defibrillators, etc. Exclude depreciation. terminals, etc. TEM 2 TEM 3 TEM 1 313 316 318 311

FORM ICT-1(Long) (3-2-2004)

2003 INFORMATION AND COMMUNICATION TECHNOLOGY (ICT) SURVEY

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313	Information and Communication Technology Equipment, Excluding Computer and Peripheral Equipment Central office switching equipment, telephones (wired and wireless) and telephone apparatus, facsimile equipment, bridges, routers, gateways, portable transmitting and receiving antennas, communications satellites, cable television equipment, global positioning system (GPS) equipment, radio and television studio broadcasting equipment, fire detection and alarm systems, intercom systems, etc.						
316	Electromedical and Electrotherapeutic Apparatus Magnetic resonance imaging equipment, electrocardiographs, medical ultrasound equipment, electromedical endoscopic equipment, defibrillators, etc.						

	Non-capitalized Purchases and Payroll for Developing Software	ases and Software	Non-capitalize and Servi	Non-capitalized Software Licensing and Service/Maintenance	e
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18 Computer Software (Including Payroll for Developing Software)		_			
 Prepackaged (off-the-shelf), vendor customized, and internally developed software. 					
 Costs related to software development (for internal use and/or resale) including loaded payroll (salaries, wages, benefits, and bonuses). 					
Exclude other IT payroll.		_			

http://www.census.gov/csd/ict

FORM ICT-1(Long) (3-2-2004)

Page 8

Non-capitalized Expenses Non-capitalized Expenses Non-capitalized Expenses Standing purchased computer and communication services and maintenance and repairs) Standing purchased computer and communication services and maintenance and repairs) Standing purchased computer and communication services and maintenance and repairs) Standing purchased computer and communication services and maintenance and repairs) Standing purchased computer and communication services and maintenance and repairs) Standing purchases and repairs)	İ		(IIICIAAIII g rayioii ioi Developiii g Joirwais)
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COMPUTER SOFTWARE EXPENDITURES	Non-capitali Payroll for De (Excluding mai	Non-capitalized Purchases and Payroll for Developing Software (Excluding maintenance and repairs) (901)	and ware	Non-capitalized Software Licensing and Service/Maintenance Agreements (Including leased software) (902)	capitalized Software Licer and Service/Maintenance Agreements (Including leased software) (902)	ensing
	\$Mil.	\$Thou.	\$Dol.	\$Mil.	\$Thou.	\$Dol.
Computer Software (Including Payroll for Developing Software)						
 Prepackaged (off-the-shelf), vendor customized, and internally developed software. 						
 Costs related to software development (for internal use and/or resale) including loaded payroll (salaries, wages, benefits, and bonuses). 						
 Exclude other IT payroll. 						
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FORM ICT-1(Long) (3-2-2004)

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Page 9

2003 INFORMATION AND COMMUNICATION TECHNOLOGY (ICT) SURVEY Non-capitalized Expenses

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Report for all domestic operations only	ble estimates are acceptable.
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Exclude depreciation.

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Enter Industry Category Code from cover page

- Complete a separate page for each industry in which this company operated and had non-capitalized ICT expenditures in 2003.
- The list of Industry Category Codes on the cover page are the industries in which we expected this company to have operations in 2003.
 If your company did not have any non-capitalized ICT expenditures for the 2003 reporting period, enter "0" in the appropriate cell(s).

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ITEM	318

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Prepackaged (off-the-shelf), vendor customized, and internally developed

- software.
- Costs related to software development (for internal use and/or resale) including loaded payroll (salaries, wages, benefits, and bonuses).
 - Exclude other IT payroll.

FORM ICT-1(Long) (3-2-2004)

		FAX number	Area code Number		Date		this form booklet.	1-800-438-8040
	with instructions.	number	Ext.				d address on page 1 of	FAX the form to 1-800-438-8040
	epared in accordance v	Telephone number	Area code Number		E-mail address		errors on the imprinte	OR
	is substantially accurate and has been prepared in accordance with instructions.	Name of person to contact regarding this report (Please print or type)	4)	Ш.		Please be sure to correct any name, address, and ZIP Code errors on the imprinted address on page 1 of this form booklet	U.S. Census Bureau 1201 East 10th Street
	CERTIFICATION - This report is substantially	Name of person to contact regarc			Signature of authorized official		Please be sure to co	PLEASE RETURN YOUR
						Ar	ppe	ndix

Please explain any large or unusual changes to your company's domestic ICT expenditures.

REMARKS

THANK YOU FOR YOUR COOPERATION AND ASSISTANCE IN THIS SURVEY.

Jeffersonville, IN 47132-0001

2003 INFORMATION AND COMMUNICATION TECHNOLOGY (ICT) SURVEY INSTRUCTIONS AND INDUSTRY CATEGORY CODES

INTRODUCTION

This manual provides instructions, definitions, and codes to assist you in completing your Information and Communication Technology (ICT) Survey report form. Data from this survey will be used to assess future productivity and economic growth prospects. In addition, the data will provide improved source data significant to the investment component of gross domestic product, capital stock estimates, and capital flow tables.

This form collects non-capitalized expenditures for Information and Communication Technology only. All capitalized expenditures are collected on the Annual Capital Expenditures Survey (ACES).

BURDEN HOUR ESTIMATE

Public reporting burden for this collection of information is estimated to range from 1 to 20 hours, averaging 1.6 hours per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information to: Paperwork Project 0607-0909, U.S. Census Bureau, 4700 Silver Hill Road, Stop 1500, Washington, DC 20233-1500. You may email comments to Paperwork@census.gov; use "Paperwork Project 0607-0909" as the subject.

GENERAL INSTRUCTIONS

Survey Scope – This survey collects expenditure data for nonfarm companies, organizations, and associations operating within the United States. Information for agricultural production operations should be excluded. However, companies performing agricultural services are included. Information for churches, nonprofit organizations, and organizations that are government owned but privately operated should be included.

Reporting Entity – Report for all domestic operations of your enterprise, including subsidiaries and divisions. For this report, the terms enterprise and company are used interchangeably. An enterprise is a business, service, or membership organization consisting of one or more establishments under common ownership or control. It includes all establishments of subsidiary companies, where there is more than 50 percent ownership, as well as establishments of firms which the enterprise has the power to direct or cause the direction of management and policies. Holding companies should report for the entire corporation, including all subsidiaries under their ownership. If you are unable to consolidate records for the entire company or have any reporting questions, please call 1–800–528–3049. This report form will be used by companies having activity in one or more industries; therefore, not all items will apply to all companies. For purposes of this survey, exclude data for Puerto Rico, the Virgin Islands, and U.S. Territories.

Survey Period – Report data for the calendar year 2003. If calendar year book figures are not available except at considerable cost, reasonable estimates are acceptable. If you cannot provide reasonable estimates on a calendar basis, fiscal year data will be accepted. Indicate on page 10 of the ICT-1(Long), page 8 of the ICT-1(M) form, or page 6 of the ICT-1(S) form the exact dates the data represent if they are not for the calendar year. If fiscal data are used and your fiscal period ends in January, February, or March, report for the fiscal year ending in 2004. Otherwise, report for the fiscal year ending in 2003.

Estimates Are Acceptable –The data requested on this report form may not correspond to your company's accounting records. If you cannot answer a question from your company records, please provide carefully prepared estimates. If your company did not have any non-capitalized ICT expenditures for the 2003 reporting period, enter "0" in the appropriate cell(s).

Report dollar values rounded to thousands.

	\$Mil.	\$Thou.	\$Dol.
Example: If figure is \$179,125,628.00 report	179	126	

Mergers and Acquisitions – Such events occurring during the period covered by this report require special attention.

- (a) If your enterprise merged with or acquired another domestic enterprise during the reporting period, include the domestic non-capitalized ICT expenses made by the merged or acquired enterprise since the date of acquisition. Please furnish the date of the acquisition or merger and the name of the acquired enterprise in the "Remarks" section on the last page of the form.
- (b) If your enterprise was acquired by another enterprise during the period covered by this report, please furnish the acquisition date and the name and address of the acquiring enterprise in the ownership information section on the last page, and complete the form for the period of time the enterprise was in operation prior to the acquisition.

Additional Forms – Photocopies of this form are acceptable. If you require additional forms, call 1–800–528–3049 or write to the U.S. Census Bureau, ICT Processing, 1201 East 10th Street, Jeffersonville, IN 47132-0001. Please include your 11-digit Census ID Number located on the first line of the mailing address.

Alternate Reporting Formats – For information concerning the use of reporting formats other than the report form provided, call 1–800–528–3049.

Filing the Report Form - Return your completed report form in the pre-addressed envelope. If you are not using the pre-addressed envelope, return your report form to the U.S. Census Bureau, 1201 East 10th Street, Jeffersonville, IN 47132-0001 or fax to 1-800-438-8040. Make a copy of the completed report form for your company records.

Filing Extensions - If you cannot complete the survey by the due date shown on the cover page of the report form, you may request an extension of time by writing to the address below (include your 11 digit ID):

U.S. Census Bureau or call: 1201 East 10th Street 1-800-528-3049 Jeffersonville, IN 47132-0001

Legal Authority and Confidentiality of Data -Your response is required by law. Title 13, United States Code, requires businesses and other organizations that receive this questionnaire to answer Bureau. By the same law, YOUR REPORT IS CONFIDENTIAL. It may be seen only by persons sworn to uphold the confidentiality of Census Bureau information and may be used only for statistical purposes. Further, copies retained in respondents' files are immune from legal process.

Direct any QUESTIONS regarding this report form to the U.S. Census Bureau, ATTN: Business Investment Branch, Company Statistics Division, Washington, DC 20233-6400 or call 1-800-528-3049.

ITEM 1

INSTRUCTIONS BY ITEM

INDUSTRY CATEGORY CODES

Review the list of industries printed to the left of the company name and address on the cover page of the report form. Our records show your company operated in these industries during 2003. If there are discrepancies, please add, modify, or delete these industry codes. A complete list of valid industry codes is available beginning on page 5 of this booklet. For each of your company's industries, report the non-capitalized ICT expenses on a separate page.

Expenditures for equipment and software that serve multiple industries (such as those serving headquarters, regional and divisional offices, and research and development) should be allocated to each industry as deemed appropriate. If expenditures for these assets cannot be allocated to specific industry categories, report the amount of these expenditures as industry code 9900.

ITEM 2

EQUIPMENT EXPENDITURES (Report Computer Software in Item 3) COLUMNS

Non-capitalized Purchases (Excluding purchased computer and communication services and maintenance and repairs)

Note:

• If equipment purchases are included in the cost of a service/maintenance agreement, report only the equipment value in the Non-capitalized Purchases column:

ITEM 2 - Continued

• If you are unable to separately report the equipment value, and the majority of the service/maintenance agreements cost is the equipment purchase, report the entire cost in the Non-capitalized Purchases column.

Include:

- Non-capitalized purchases and upgrades falling below the company's capitalization threshold (dollar and/or useful life);
- Purchases made from grants and government funds.

- Capitalized expenditures charged to asset accounts for which depreciation or amortization accounts are maintained:
- Purchased services such as purchased computer services, purchased data processing services, and purchased communication services;
- Ordinary maintenance and repairs;
- Office supplies and materials;
- Inventory.

Non-capitalized Operating Leases and Rental Payments

(Excluding maintenance and repairs)

In multiyear rental agreements, report only the cost for the 2003 reporting period.

Include:

 Payments made in exchange for use of equipment with no transfer of ownership.

- Leases involving transfer of ownership (capital leases);
- Ordinary maintenance and repairs.

EQUIPMENT EXPENDITURES (Report Computer Software in Item 3) ROWS

The examples provided are not intended to be an exhaustive list.

311

Computer and Peripheral Equipment Mainframes, personal computers, laptops, workstations, terminals, computer servers, printers, plotters, monitors, storage devices, personal digital assistants (PDAs), automatic teller machines (ATMs), point of sale terminals, etc.

Note:

- If networking equipment is included in the cost of computer and peripheral equipment, report only the networking equipment value in row 313 (ICT Equipment, Excluding Computer and Peripheral Equipment); and report computer and peripheral equipment in row 311 (Computer and Peripheral Equipment);
- If you are unable to separately report networking equipment and the majority of the equipment value is computers and peripherals, report the entire cost in row 311 (Computer and Peripheral Equipment).

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ITEM 2 - Continued

Exclude:

- Purchased services such as purchased computer services, purchased data processing services, and purchased communication services;
- Ordinary maintenance and repairs;
- Office supplies and materials;
- Inventory;
- Software (report in Item 3).

313

Information and Communication Technology, Equipment, Excluding Computer and Peripheral Equipment

Central office switching equipment, telephones (wired and wireless) and telephone apparatus, facsimile equipment, bridges, routers, gateways, portable transmitting and receiving antennas, communications satellites, cable television equipment, global positioning system (GPS) equipment, radio and television studio broadcasting equipment, fire detection and alarm systems, intercom systems, etc.

Note:

- If networking equipment is included in the cost of computer and peripheral equipment, report only the networking equipment value in row 313 (ICT Equipment, Excluding Computer and Peripheral Equipment);
- If you are unable to separately report networking equipment and the majority of the equipment value is computers and peripherals, report the entire cost in row 311 (Computer and Peripheral Equipment).

Exclude:

- Purchased services such as purchased computer services, purchased data processing services, and purchased communication services;
- Ordinary maintenance and repairs;
- Office supplies and materials;
- Inventory;
- Software (report in Item 3).

316

Electromedical and Electrotherapeutic Apparatus

Magnetic resonance imaging equipment, electrocardiographs, medical ultrasound equipment, electromedical endoscopic equipment, defibrillators, etc.

Note

If this category does not apply to your company, place a "0" in the cells.

Exclude:

- Ordinary maintenance and repairs;
- Inventory;
- Software (report in Item 3).

ITEM 3

COMPUTER SOFTWARE EXPENDITURES (Including Payroll for Developing Software) COLUMNS

Non-capitalized Purchases and Payroll for Developing Software (Excluding maintenance and repairs)

Note.

- Costs of software developed under contract should only be reported by the purchaser;
- If purchases and/or upgrades are included in the cost of a license or service agreement, report only the purchase and/or upgrade value in the Non-capitalized Purchases and Payroll for Developing Software column and report licenses in the Non-capitalized Software Licensing and Service/Maintenance Agreements column;
- If you are unable to separately report individual purchases and/or upgrades from license or service agreements, report the entire cost in the Non-capitalized Purchases and Payroll for Developing Software column.

Include:

- Purchases and/or upgrades of software (one-time and/or periodic);
- Purchased computer services only if they relate to vendor-customized software or adaptation to existing software.

Exclude:

- Payroll related to other IT functions other than software development (such as a help desk);
- Software purchased for duplication and resale without additional alteration or value added;
- Site and seat licenses;
- Ordinary maintenance and repairs to software;
- Inventory.

Non-capitalized Software Licensing and Service/Maintenance Agreements (Including leased software)

Note:

- If purchases and upgrades are included in the cost of a license or service agreement, report only the license and service agreement value in the Non-capitalized Software Licensing and Service/Maintenance Agreements column;
- If you are unable to separately report purchases and/or upgrades from service/maintenance agreements, report the entire cost in the Non-capitalized Purchases and Payroll for Developing Software column;

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ITEM 3 - Continued

Include:

- Software under operating leases;
- Site and seat licenses;
- Software service/maintenance agreements (purchased) annually or otherwise).

Exclude:

- Purchases and/or upgrades of software;
- Inventory;
- Costs already reported in the Non-capitalized Purchases and Payroll for Developing Software column.

SOFTWARE EXPENDITURES (Including Payroll for Developing Software) ROWS

Computer Software (Including Payroll for Developing Software)

- Prepackaged (off-the-shelf), vendor customized, and internally developed software.
- Costs related to software development (for internal use and/or resale) including loaded payroll (salaries, wages, benefits, and bonuses).
- Exclude other IT payroll.

Include:

- Prepackaged software purchased off-the-shelf through retailers or other mass-market outlets;
 - Include payroll for adaptation to existing software;
 - If pre-packaged software was purchased and then altered internally or by a vendor, report both the purchase price and the cost of alteration;
- Vendor customized software externally developed by vendors, customized for your company's use or resale;
- <u>Internally developed</u> software developed by your company's employees for internal use or resale. Include loaded payroll (defined below);
- Loaded Payroll salaries, wages, benefits, and bonuses related to all software development activities. Report these figures in the Non-capitalized Purchases and Payroll for Developing Software
 - Exclude stock options.

Exclude:

- Payroll related to IT functions other than software development (e.g., help desk);
- Inventory.

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ICT INDUSTRY CATEGORY CODES LIST

INSTRUCTIONS

Use the following industry codes to complete Item 1 as requested on the report form. The North American Industrial Classification System (NAICS) codes are listed for reference only.

INDUSTRY DESCRIPTION		NAICS CODE(S)	INDUSTRY	DESCRIPTION	NAICS
CODE	Agriculture, Forestry,	CODE(S)	CODE	Manufacturing - Continued	CODE(S)
	Fishing and Hunting		3160	Leather and Allied Product Manufacturing	316
1110	Crop and Animal Production	111, 112		Ç	
1130	Forestry, Logging, Fishing, Hunting,	113, 114,	3210	Wood Product Manufacturing	321
	Trapping, and Agricultural Support Activities	115	3220	Paper Manufacturing	322
	Mining		3230	Printing and Related Support Activities	323
2110	Oil and Gas Extraction	2111	3240	Petroleum and Coal Products Manufacturing	324
2121	Coal Mining	2121	3251	Basic Chemical, Resin, Synthetic Rubber, and Fiber Manufacturing	3251, 3252
2122	Metal Ore Mining	2122		Ğ	
2123	Nonmetallic Mineral Mining and Quarrying	2123	3253	Pesticide, Fertilizer, and Other Agricultural Chemical Manufacturing	3253
2130	Support Activities for Oil and Gas Operations	213111, 213112	3254	Pharmaceutical and Medicine Manufacturing	3254
2131	Support Activities for Solid Mineral Operations	213113, 213114, 213115	3259	Paint, Adhesive, Soap, and Other Chemical Manufacturing	3255, 3256, 3259
	Utilities		3260	Plastics and Rubber Products Manufacturing	326
2211	Electric Power Generation, Transmission and Distribution	2211	3271	Clay and Glass Products Manufacturing	3271, 3272
2212	Natural Gas Distribution	2212	3279	Cement, Concrete, Lime, Gypsum, and	3273,
2213	Water, Sewage, and Other Systems	2213		Other Nonmetallic Mineral Product Manufacturing	3274, 3279
	Construction		3311	Iron and Steel Mills, Ferroalloy Manufacturing, and Steel Product	3311, 3312
2330	Building, Developing, and General Contracting	233		Manufacturing from Purchased Steel	3312
2340	Heavy Construction	234	3313	Nonferrous Metals Production and Processing	3313, 3314
2350	Special Trade Contractors	235	3315	Ferrous and Nonferrous Foundries	3315
	Manufacturing		3320	Fabricated Metal Product Manufacturing	332
3110	Food Manufacturing	311	3331	Agriculture, Construction, and Mining Machinery Manufacturing	3331
3121	Beverage Manufacturing	3121	3332	Industrial, Metalworking, and General Purpose Machinery Manufacturing	3332, 3335,
3122	Tobacco Manufacturing	3122		. a.poso masimory manufacturing	3339
3130	Textile Mills and Textile Product Mills	313, 314	3333	Commercial, Service Industry, Temperature Control, and Air- Flow Control Machinery	3333, 3334,
3150	Apparel Manufacturing	315		Manufacturing	

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CODE	Manufacturing - Continued	CODE(S)	CODE	Transportation and Warehousing	CODE(S)	
3336	Engine, Turbine, and Power Transmission Equipment Manufacturing	3336	4810	Air Transportation	481	
3341	Computer and Peripheral Equipment Manufacturing	3341	4820	Rail Transportation	482	
3342	Communications, Audio, and Video Equipment Manufacturing	3342, 3343	4830 4840	Water Transportation Truck Transportation	483	
3344	Semiconductor and Other Electronic Component Manufacturing	3344	4840	Transit and Ground Passenger	484	
3345	Navigational, Measuring, Electromedical, and Control Instruments Manufacturing	3345	4861	Transportation Pipeline Transportation of Crude Oil, Refined	4861,	
3346	Manufacturing and Reproducing Magnetic and Optical Media	3346		Petroleum, and Miscellaneous Products, except Natural Gas	4869	
3350	Electrical Equipment, Appliance and Component Manufacturing	335	4862	Pipeline Transportation of Natural Gas	4862	
3361	Motor Vehicle, Body, Trailer, and Parts	3361,	4870	Scenic and Sightseeing Transportation	487	
3301	Manufacturing	3362, 3363	4880	Support Activities for Transportation	488	
3364	Aerospace Product and Parts Manufacturing	3364	4920	Couriers and Messengers	492	
3369	Other Transportation Equipment Manufacturing	3365, 3366,	4930	Warehousing and Storage	493	
	<u> </u>	3369		Information		
3370	Furniture and Related Product Manufacturing	337	5111	Newspaper, Periodical, Book, and Database Publishers	5111	
3391	Medical Equipment and Supplies Manufacturing	3391	5112	Software Publishers	5112	
3399	Other Miscellaneous Manufacturing Wholesale Trade	3399	5120	Motion Picture and Sound Recording Industries	512	
4040		404	5131	Radio and Television Broadcasting	5131	
4210 4220	Wholesale Trade, Durable Goods Wholesale Trade, Nondurable Goods	421	5132	Cable Networks and Program Distribution	5132	
	Retail Trade		5133	Wired Telecommunications Carriers	51331	
4410	Motor Vehicle and Parts Dealers	441	5134	Wireless Telecommunications Carriers (except Satellite)	51332	
4430	Electronics and Appliance Stores	443	5135	Telecommunications Resellers, Satellite, and	51333,	
4450	Food and Beverage Stores	445		Other Telecommunications	51334, 51339	
4480	Clothing and Clothing Accessories Stores	448	5141	Information Services	5141	
4520	General Merchandise Stores	452	5142	Data Processing Services	5142	
4540	Nonstore Retailers	454		Finance and Insurance		
4599	Other Retail Trade Stores, including Gasoline Stations	442, 444, 446, 447, 451, 453	5210	Monetary Authorities-Central Bank	521	

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ICT INDUSTRY CATEGORY CODES LIST - Continued									
INDUSTRY CODE	DESCRIPTION	NAICS CODE(S)	INDUSTRY CODE	DESCRIPTION	NAICS CODE(S)				
	Finance and Insurance - Continued			Administrative and Support and Waste Management					
5222	Nondepository Credit Intermediation	5222	5614	Business Support Services	5614				
5223	Activities Related to Credit Intermediation	5223		•					
5230	Securities, Commodity Contracts, and Other Financial Investments and Related Activities	523	5615	Travel Arrangement and Reservation Services	5615				
5241	Insurance Carriers	5241	5616	Investigation, Security, and Services to Buildings and Dwellings	5616, 5617				
5242	Agencies, Brokerages, and Other Insurance Related Activities	5242	5619	Office Administrative, Facilities, Employment, and Other Support Services	5611, 5612, 5613,				
5251	Funds, Trusts, and Other Financial Vehicles (including REITS)	525			5619				
	Real Estate and Rental and Leasing		5621	Waste Collection, Treatment, and Disposal	5621, 5622				
5310	Real Estate	531	5629	Remediation and Other Waste Management	5629				
5321	Automotive Equipment Rental and Leasing	5321		Services					
5322	Consumer Goods and General Rental	5322,		Educational Services					
	Centers	5323	6110	Educational Services	611				
5324	Commercial and Industrial Machinery and Equipment Rental and Leasing	5324		Health Care and Social Assistance					
5330	Lessors of Nonfinancial Intangible Assets	533	6211	Offices of Physicians	6211				
	Professional, Scientific, and Technical Services		6212	Offices of Dentists and Other Health Practitioners	6212, 6213				
5411	Legal Services	5411	6215	Medical and Diagnostic Laboratories	6215				
5412	Accounting, Tax Preparation, Bookkeeping, and Payroll Services	5412	6216	Home Health Care Services	6216				
5413	Architectural, Engineering, and Related Services	5413	6219	Outpatient Care Centers and Other Ambulatory Health Care Services	6214, 6219				
5414	Specialized Design Services	5414							
5415	Computer Systems Design and Related	5415	6221	General Medical and Surgical Hospitals	6221				
5416	Services Management, Scientific, and Technical	5416	6222	Psychiatric, Substance Abuse, and Specialty Hospitals	6222, 6223				
5417	Consulting Services Scientific Research and Development	5417	6230	Nursing and Residential Care Facilities	623				
5418	Services Advertising and Related Services	5418	6240	Social Assistance (except Child Day Care Services)	624 (except 6244)				
5419	Other Professional, Scientific, and Technical Services	5419	6244	Child Day Care Services	6244				
	Management of Companies and Enterprises			Arts, Entertainment, and Recreation					
5510	Management of Companies and Enterprises	551	7110	Performing Arts, Spectator Sports, and Related Industries	711				
ı	•				712				

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	ICT INDUSTRY CA	TEGOR	Y CODES	S LIST - Continued	
INDUSTRY CODE	DESCRIPTION	NAICS CODE(S)	INDUSTRY CODE	DESCRIPTION	NAICS CODE(S)
	Arts, Entertainment, and Recreation - Continued				
7130	Amusement, Gambling, and Recreation Industries	713			
	Accommodation and Food Services				
7210	Traveler Accommodation Services	721			
7220	Food Services and Drinking Places	722			
	Other Services (except Public Administration)				
8111	Automotive Repair and Maintenance	8111			
8119	Other Repair and Maintenance	8112, 8113, 8114			
8120	Personal Care, Death Care, Laundry, and Other Personal Services	812			
8131	Religious, Grantmaking, Social Advocacy, Civic, and Social Organizations	8131, 8132, 8133, 8134			
8139	Business, Professional, Labor, Political, and Similar Organizations	8139			
	Central Administrative Office Activity				
9900	Central Administrative Office Activity Unallocated to Other Industry Categories	N/A			

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