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Current Industrial Reports

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## **SUMMARY OF FINDINGS**

In 2006, the total value of manufacturers' shipments of copper insulated wire and cable increased by 37.4 percent to \$17.9 billion from \$13.0 billion in 2005. Quantity of shipments of aluminum insulated wire and cable shows a 5.7-percent increase for 2006, totaling 451.6 million pounds, up from the 2005 total of 427.2 million pounds. Copper magnet wire increased to \$1.7 billion, up 53.8 percent from \$1.1 billion in 2005. In 2006 insulated optical fiber cable increased by 7.2 percent to \$1,241.3 million, from the 2005 value of shipment totaling \$1,158.8 million. Optical fiber increased 8.7 percent to \$489.4 million, from the 2005 total of \$450.3 million.

Address inquiries concerning these data to Investment Goods Industries Branch, Manufacturing and Construction Division, (MCD), Washington, DC 20233-6900 or call Phil Brown, 301-763-4740.

For mail or fax copies of this publication, please contact the Information Services Center, MCD, Washington, DC 20233-6900, or call 301-763-4673.

# USCENSUSBUREAU

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U.S. Department of Commerce Economics and Statistics Administration U.S. CENSUS BUREAU

Table 1. Summary of Shipments of Insulated Wire and Cable: 2001 to 2006 [Value in millions of dollars]

Product code	Product description	2006		2005	2004	2003	2002	2001
	Insulated wire and cable 1/	21,480.3		15,865.1	13,233.8	11,441.5	11,944.8	16,873.4
335929A	Electronic wire and cable	3,309.6		2,748.2	2,614.3	2,358.8	2,576.2	2,657.5
335929B	Telephone and telegraph wire and cable	2,545.2	r/	1,590.1	957.7	1,276.0	1,290.9	2,074.4
3359291	Power wire and cable 2/	2,875.2		2,256.2	1,810.4	1,484.5	1,466.0	1,545.8
3359291 pt.	Portable power cable 2/	(NA)		(NA)	(D)	(D)	117.9	137.9
335929C	Control and signal wire and cable	446.7		291.6	(D)	(D)	208.0	197.3
335929D	Building wire and cable	7,247.7		4,835.2	3,707.3	2,433.8	2,302.4	2,121.1
331491F	Apparatus wire and cordage	553.6		509.9	560.6	671.9	629.2	735.4
335929E	Other insulated wire and cable	938.3	r/	810.6	600.1	519.8	604.3	675.0
331491H	Magnet wire	1,833.3		1,214.7	1,120.7	957.3	980.0	1,059.4
3359210	Insulated optical fiber cable	1,241.3		1,158.3	886.3	944.4	1,282.5	3,646.2
327215A	Optical fiber	489.4	r/	450.3	502.3	449.1	487.4	2,023.4

D Withheld to avoid disclosing data for individual companies. NA Not available. pt. Part. or more from previously published data. r/Revised by 5 percent

<sup>1/</sup>Detail may not add to total due to rounding. 2/Beginning in 2005, part of product code 3359291, "Portable power cable," is included with the rest of product code 3359291, "Power wire and cable."

# Shipments, including interplant transfers 1/

				2006					2005	;	
	Product description	No.		Copper			No.		Copper		
Product code		of os.		content weight 2/		Total Value 2/	of cos.		content weight 2/		Total Value 2/
335929 pt.	Insulated wire and cable (except magnet wire and optical wire)(!	NA)		2,789,562		17,916,197	(NA)		2,995,129		13,041,736
335929A1	Electronic wire and cable	66	b/	264,723	a/	3,309,589	69	c/	254,186	c/	2,748,171
335929A130	135 C and over	10		2,573	a/	83,735	11	c/r/	3,996	c/r/	84,263
335929A140	Under 135 C Hookup wire (single conductor, shielded and nonshielded):	19		32,326		554,735	20	b/	26,787	b/	392,165
335929A170 335929A180	135 C and over temperature rating		b/ c/	14,374 69,811	b/ c/	218,170 438,236	18 31	c/ a/	12,953 58,664	c/ a/	159,518 359,897
335929A190	(shielded and nonshielded):  Flat and ribbon cable  Other muticonductor electronic wire and cable:	13	b/	3,576		73,248	17	c/r/	3,369	c/r/	65,283
	Shielded:										
335929A1A0 335929A1B0	135 C and over temperature rating		a/	(D) 43,452		(D) 414,814	20 30	c/r/	(D) 43,385	c/r/	(D) 342,375
335929A1C0	135 C and over temperature rating			(D)		(D)	8	, ,	(D)	,	(D)
335929A1D0 335929A1 pt.	Under 135 C temperature rating Other electronic wire and cable			36,093 35,583		279,289 926,899	19	c/r/ r/	34,414 46,572	c/ r/	238,481 862,326
335929B	Telephone and telegraph wire and cable		b/	358,801	b/	, ,	20	b/	358,704		1,590,129
335929B120 335929B140	Station wire and cableInside wiring cable	8 8	b/ a/	13,109 88,488	b/	73,691 706.089	8	b/r/ c/r/	13,627 63,898	b/r/ c/r/	56,417 480,132
335929B180	Other telephone and telegraph wire and cable		ω,	257,204		1,765,396		a/r/	281,179		1,053,580
3359291 3359291810	Power wire and cable	19 1		315,030 (D)		2,875,244 (D)	21 1	c/r/	342,085 (D)	c/	2,256,177 (D)
3359291820	Portable welding cable	6	a/	18,507	b/	81,482	7	a/	18,244	b/	55,099
3359291830 3359291840	Underground distribution cable (UD, URD) Thermoplastic insulated power cable Thermoset insulated:	7 9	c/	8,321 24,264	a/ c/	523,733 155,929	7 9	a/ a/r/	8,196 29,134	b/ b/r/	421,158 111,761
3359291850	Armored, rubber and cross linked	6	a/	8,928	a/	64,220	6	c/r/	10,721	c/r/	52,692
3359291860	Unarmored, rubber	5	c/	23,328	b/	98,719	6	a/r/	20,802	a/r/	70,291
3359291870 3359291890	Unarmored, cross linked Weatherproof cable	6 4		16,465 (D)	a/	98,574 (D)	6 4	a/	13,560 (D)	a/	58,425 (D)
3359291891	Service drop cable, thermoset and thermopplastic insulated	4		(D)		(D)	4		(D)		(D)
2250201060	Over 2 kV:										
33592918C0	Underground distribution cable (UD, URD), all insulations (jacketed and unjacketed) Thermoset insulated power cable, excluding underground:	6		61,364		610,278	7	a/	61,693	b/	480,032
33592918E0	2 kV to 15 kV: Armored, rubber and cross-linked	7	a/	30,981	a/	199,994	7	c/r/	24,155	c/r/	116,764
33592918E0 33592918F0	Unarmored, rubber	6	a/	60,491	a/	364,487		c/r/	60,760	c/r/	244,470
33592918G0	Unarmored, cross-linked	4		3,424		20,725		b/r/	3,931	b/r/	14,596
33592918H0 33592918I0	Over 15.1 kV (rubber and cross-linked) Other power wire and cable, including portable	4 3	a/	(D) 27,094	b/	(D) 214,513	4	c/r/	(D) 29,937	c/r/	(D) 197,394
335929C 335929C110	Control and signal wire		b/ b/	51,617 27,566	b/ b/	446,666 242,139		c/r/ c/r/	46,139 26,595	c/ c/r/	291,552 174,238
335929C120	Control wire and cable, excluding elevator cable: Thermoset insulated	8	a/	6,291	a/	77,449	8	c/r/	5,710	c/r/	50,152
335929C130		10	a/	17,760	b/	127,078	10	c/1/	13,834	c/1/	67,162
335929D	Building wire and cableBuilding wire and cable having underwriters' labels:	22		1,532,858		7,247,665	22	c/	1,700,219	c/	4,835,179
335929D110	Thermoset insulated: Cross-linked polyethylene (XHHW)	12		46,101		375,075	11	c/	44,654	c/	177,371
335929D120	Cross-linked polyethylene (XLP, USE) Thermoplastic insulated:	12		14,226		101,804	10	c/	20,691	c/	73,149
335929D130 335929D140	Flame-retardant nylon (THHN, THWN)			743,015 5,087		3,082,594 18,918	14 12	c/ c/r/	779,550 3,017	c/ c/r/	1,935,254 11,456
335929D140 335929D150	Service entrance cable (SER, SEU, ASE)		b/	13,168		237,317	9	c/1/	16,848	c/1/	178,179

Table 2. Shipments of Copper Insulated Wire and Cable: 2006 and 2005 [Shipments in thousands of pounds. Value in thousands of dollars]

Shipments, including interplant transfers 1/

	Product description			2006					2005		
Product code	·	No. of cos.		Copper content weight 2/		Total Value 2/	No. of cos.		Copper content weight 2/		Total Value 2/
335929D160 335929D170 335929D190	Nonmetallic branch-circuit and underground feeder: Type NM-B Type UF and NMC (corrosion resistant) Other building wire and cable	7 8 10		537,725 40,558 132,978		2,355,303 200,134 876,520	8 10 11	b/ c/ a/	652,789 47,735 134,935	c/ c/ b/	1,689,028 145,261 625,481
331491F	Apparatus wire and cordage 3/	31	a/	89,085	a/	553,578	32	c/r/	106,190	c/	509,908
331491F110 331491F120	Flexible cordage: Thermoset insulated Thermoplastic, including thermoplastic	9	b/	15,528	b/	111,200	9	b/r/	19,962	b/	100,260
331491F180 331491F190 331491F1A0 331491F1B0	elastomers  Extension cord sets  Fixed power supply cords  Detachable power supply cords  Retractable power cords and other	4 11	a/ a/	2,891 2,099 1,326 1,902 461	a/ a/	19,925 25,680 9,007 6,074 20,904	11 6	c/ a/r/ c/r/ b/r/ b/r/	3,087 3,949 1,061 1,435 424	c/ a/r/ c/r/ b/r/ a/	15,276 30,595 8,058 4,563 16,134
331491F130 331491F145	Apparatus wire: Appliance fixture wire Appliance wiring material 14 gauge and larger, (including motor lead and transformer lead	10		15,138		98,502	11	c/	18,623	c/	85,502
331491F160 331491F170	wire), thermoset and thermoplastic insulated Submersible pump cable Other apparatus wire and cordage, including machine tool wire	9	b/	14,053 17,204 18,483	a/	63,314 102,332 96,640	11 9 14	c/r/ b/ c/r/	24,797 15,853 16,999	c/ b/ c/r/	114,458 69,736 65,326
335929E	Other insulated wire and cable	37	b/	177,448	b/	938,279	40	c/r/	187,606	c/r/	810,620
335929E110 335929E120 335929E130 335929E140	Bulk automotive primary wire  Bulk battery cable  Bulk ignition wire  Other automotive wire and cable  Airframe, shipboard and ground support cable, excluding coaxial cable and ignition cable:	7	b/ a/	93,322 6,935 (D) (D)	b/ a/	337,687 29,046 (D) (D)	12 7 7 9	c/ b/	98,770 8,859 (D) (D)	c/ b/	259,425 25,970 (D) (D)
335929E150 335929E160 335929E170	Airframe and missile, including ground support cable	5	a/ c/ c/	4,752 3,208 59,787	b/ c/	44,229 19,064 320,032	8 5 22	a/ a/ c/r/	4,193 3,173 60,386	r/ a/r/ c/r/	44,229 19,064 320,032

D Withheld to avoid disclosing data for individual companies. NA Not available. n.e.c. Not elsewhere classified. pt. Part. r/Revised by 5 percent or more from previously published data.

Note: Data presented in this table are for copper content insulated wire and cable. See Table 3 for aluminum content information. Percent of estimation of each item is indicated as follows: a/10 to 25 percent of this item is estimated. b/26 to 50 percent of this item is estimated. c/Over 50 percent of this item is estimated.

<sup>1/</sup>Interplant transfers for 2006 totaled \$87,544 and for 2005 totaled \$67,240.

<sup>2/</sup>Aluminum content for 2006 totaled 451,623 thousand pounds and for 2005 totaled 427,200 thousand pounds (not included in copper content weights). Aluminum shipment values are included in total value. See Table 3 for additional details.

<sup>3/</sup>Data include the following: (a) all known establishments which insulate wire and cable and then fabricate it into finished products, NAICS product class 331491E; (b) establishments from NAICS product class 334290, that manufacture wire, cord, and flexible cord sets from purchased insulated wire.

Table 3. Aluminum Shipments of Selected Insulated Wire and Cable: 2006 and 2005 [Aluminum gross weight shipments in thousands of pounds]

			2006		2005
Product code	Product description	No. of cos.	Aluminum content 1/2/	No. of cos.	Aluminum content 1/2/
335929 pt.	Insulated wire (except magnet wire)	(NA)	451,623	(NA)	r/ 427,200
335929A	Electronic wire and cable		(D)	2	(D)
335929B	Telephone and telegraph wire and cable		-	-	-
3359291	Power wire and cable	8	308,137	8	r/ 311,667
3359291830	Underground distribution cable, all insulations				
	2 kV or less	5	195,778	5	194,317
3359291890	Weatherproof cable	3	2,922	3	r/ 2,041
3359291891	Service drop cable, thermoset and thermoplastic				
	insulated	2	39,015	3	42,485
33592918C0	Underground distribution cable, all insulations				
	over 2 kV	6	50,847	6	46,937
33592918F0	Thermoset insulated power cable, unarmored,				
	rubber2 kV to 15 kV	4	5,687	4	r/ 4,751
3359291 pt.	Other power wire and cable	7	13,888	7	r/ 21,136
335929D1	Building wire and cable	7	132,620	7	105,120
335929D110	Thermoset insulated, cross-linked polyethylene				
	(XHHW)	4	(D)	5	(D)
335929D150	Service enterance cable (SER, SEU, ASE)		(D)	5	(D)
335929D1 pt.	Other building wire and cable	7	39,456	6	34,543
335929C1,	Other insulated wire and cable	4	(D)	5	(D)

<sup>-</sup> Represents zero. D Withheld to avoid disclosing data for individual companies. NA Not available. pt. Part. r/Revised by 5 percent or more from previously published data.

<sup>1/</sup>Gross weight includes insulating materials, but excludes packing materials.

<sup>2/</sup>Value of aluminum content is included in total value of Table 2.

Table 4. Shipments of Magnet Wire (Copper and Aluminum), Including Interplant Transfers: 2006 and 2005 [Gross weight in thousands of pounds. Value in thousands of dollars]

Shipments, including interplant transfers 1/

	Duo du et de esciption	Ma	2006		No	2005	
Product code	Product description	No. of cos.	Gross weight 2/	Value	No. of cos.	Gross weight 2/	Value
331491H	Magnet wire	17	564,402	1,833,327	21	569,901	1,214,695
	Class 105 and below:						
331491H110	7 AWG and larger round, including all square and						
	rectangle, film coated		(D)	(D)	3	9,501	17,031
331491H120	8 to 21 AWG, film coated		(D)	(D)	4	55,796	81,652
331491H135	22 to 33 AWG, film coated	6	2,285	9,902	6	1,857	6,418
	Class 130 to 155:	_					
331491H160	8 to 21 AWG, film coated		9,451	35,300	9	13,665	30,117
331491H170	22 to 32 AWG, film coated		16,180	62,179	11	26,735	63,928
331491H180	33 to 44 AWG, film coated	/	7,873	45,168	10	10,960	42,205
331491H190	Class 180 and above:						
3314911190	7 AWG and larger round, including all square and rectangle, film coated	4	(D)	(D)	4	34.206	78.113
331491H1A0	8 to 21 AWG, film coated		(D)	(D)	10	269.544	506,856
331491H1B0	22 to 32 AWG, film coated		96.402	334,130	11	98,610	219,103
331491H1C0	33 to 44 AWG, film coated		(D)	(D)	9	(D)	(D)
331491H1C2	Miscellaneous film coated, n.e.c.		-	-	-	-	-
	Nonfilm coated (fibrous):						
331491H1D0	Class 130 and below	3	(D)	(D)	2	(D)	(D)
331491H1F0	Class 155 and above	5	(D)	(D)	5	6,808	24,100
	Nonfilm coated (tape):						
331491H1E0	Class 130 and below		(D)	(D)	3	18,820	40,334
331491H1G0	Class 155 and above	_	10,277	40,499	5	8,244	22,438
331491G1H0	Miscellaneous nonfilm coated, n.e.c.	2	(D)	(D)	2	(D)	(D)

<sup>-</sup> Represents zero. D Withheld to avoid disclosing data for individual companies. n.e.c. Not elsewhere classified. r/Revised by 5 percent or more from previously published data.

 $<sup>1/</sup>Interplant\ transfers\ for\ 2006\ and\ 2005\ were\ withheld\ to\ avoid\ disclosing\ data\ for\ individual\ companies.$ 

<sup>2/</sup>Gross weight includes insulating materials, but excludes packing materials.

Table 5. Value of Shipments of Fiber Optic Cable: 2006 and 2005 [Thousands of dollars]

			2006		2005
Product code	Product description	No. of cos.	Value	No. of cos.	Value
33592101	Insulated optical fiber cable	26	1,241,255	28	1,158,333
33592101 pt.	Communication applications Single-mode stepped-index:	20	1,221,641	21	1,149,001
3359210125	Dispersion shifted	9	173,004	10	r/ 191,610
3359210128	Dispersion unshifted	18	691,899	19	640,372
3359210129	Multimode index	18	356,738	18	317,019
3359210434	Other applications	12	19,614	11	r/ 9,332

pt. Part. r/Revised by 5 percent or more from previously published data.

Table 6. Value of Shipments of Optical Fiber: 2006 and 2005 [Thousands of dollars]

			2006		2005		
Product code	Product description	No. of cos.	Value	No. of cos.	Value		
(	Optical fiber for data and nondata transmission	14	489,424	14	r/ 450,324		
327215B235 327215B238	Optical fiber used for data transmission Optical fiber used for nondata	8	469,848	10	r/ 434,252		
3272130230	transmission	7	19,576	5	16,072		

r/Revised by 5 percent or more from previously published data.

Table 7. Shipments, Exports, and Imports of Insulated Wire and Cable: 2006 [Quantity in thousands of units. Value in thousands of dollars]

Product	Product description	Manufad shipm (f.o.b.	nents	Exports of merchand			Imports for consumption 1/3/		
code		Quantity	Value	Quanity	Value	Quantity	Value 4/		
331491H110, 120, 130, 140, 150, 160, 170, 180, 190, 331491G1A0, 1B0, 1C0, 1I0, 1D0, 1F0, 1E0, 1G0, 1H0	Magnet wire (copper)	505,736	1,711,314	72,971	399,827	41,546	344,155		
331491H110, 120, 130, 140, 150, 160, 170, 180, 190, 331491H1A0, 1B0, 1C0, 1I0, 1D0, 1E0, 1F0, 1G0, 1H0	Magnet wire (aluminum)	58,666	122,013	15,048	108,421	2,381	18,574		
335929A100, 120, 130, 140, 150	Coaxial cable	70,482	1,586,925	47,478	496,409	67,515	552,922		
3359210125, 128, 131, 134, 3359210434	Optical fiber cables	6,248,341	1,241,255	529,174	355,744	849,082	468,604		
327215B235, 238	Optical fibers, bundles, and cables	(X)	489,424	1,523,101	212,222	85,278	30,057		
335929B110, 120, 130, 140, 150, 160, 170, 180, 335929E150, 16	Other wire and cable used for telecommunications (except fiber optics)	270,822	1,828,689	(NA)	(NA)	37,740	819,293		

NA Not available. X Not applicable.

<sup>1/</sup>For comparision of North American Industry Classification System (NAICS)-based product codes with Schedule B export codes and HTSUSA import codes, see Table 8.

2/Source: Census Bureau report EM 545, U.S. Exports.

3/Source: Census Bureau report IM 145, Imports for Consumption.

<sup>4/</sup>Dollar value represents the c.i.f. (cost, insurance, and freight) value at the first point of entry in the United States plus U.S. import duties.

Table 8. Comparision of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes, and HTSUSA Import Codes: 2006

Product code	Product description	Export code 1/	Import code 2/
331491G110, 120, 130, 140, 150, 160, 170, 180, 190, 1A0, 1B0, 1C0, 1D0, 1E0, 1F0, 1G0, 1H0, 1I0	Magnet wire (copper)	8544.11.0020 8544.11.0030 8544.11.0050	8544.11.0020 8544.11.0030 8544.11.0050
331491G110, 120, 130, 140, 150, 160, 170, 180, 190, 1A0, 1B0, 1C0, 1D0, 1E0, 1F0, 1G0, 1H0, 1I0	Magnet wire (aluminum)	8544.19.0000	8544.19.0000
335929A100, 120, 130, 140, 150	Coaxial cable	8544.20.0000	8544.20.0000
3359210125, 128, 131, 134, 434	Optical fiber cable	8544.70.0000	8544.70.0000
327215A235, 238	Optical fibers, optical fiber bundles, and cables	9001.10.0000	9001.10.0075 9001.10.0085
335929B110, 120, 130, 140, 150 160, 170 180 335929E150, 160	Other wire and cable used for telecommunications (except fiber optics)	(NA)	8544.41.4000 8544.49.4000 8544.51.4000 8544.51.7000

NA Not available.

1/Source: 2006 edition, Harmonized System-Based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States.

2/Source: Harmonized Tariff Schedule of the United States, Annotated (2006).

# Appendix.

# General CIR Survey Information, Explanation of General Terms and Historical Note

## **GENERAL**

The CIR program has been providing monthly, quarterly, and annual measures of industrial activity for many years. Since 1904, with its cotton and fats and oils surveys, the CIR program has formed an essential part of an integrated statistical system involving the quinquennial economic census, manufacturing sector, and the annual survey of manufactures. The CIR surveys, however, provide current statistics at a more detailed product level than either of the other two statistical programs.

The primary objective of the CIR program is to produce timely, accurate data on production and shipments of selected products. The data are used to satisfy economic policy needs and for market analysis, forecasting, and decision making in the private sector. The product-level data generated by these surveys are used extensively by individual firms, trade associations, and market analysts in planning or recommending marketing and legislative strategies, particularly if their industry is significantly affected by foreign trade. Although production and shipments information are the two most common data items collected, the CIR program collects other measures also such as inventories, orders, and consumption. These surveys measure manufacturing activity in important commodity areas such as textiles and apparel, chemicals, primary metals, computer and electronic components, industrial equipment, aerospace equipment, and consumer goods.

The CIR program uses a unified data collection, processing, and publication system. The U.S. Census Bureau updates the survey panels for most reports annually and reconciles the estimates to the results of the broader-based annual survey of manufactures and the economic census, manufacturing sector. The manufacturing sector provides a complete list of all producers of the products covered by the CIR program and serves as the primary source for CIR sampling. Where a small number of producers exist, CIR surveys cover all known producers of a product. However, when the number of producers is too large, cutoff and random sampling techniques are used. Surveys are continually reviewed and modified to provide the most up-to-date information on products produced. The CIR program includes a group of mandatory and voluntary surveys. Typically the monthly and quarterly surveys are conducted on a voluntary basis. Those companies that choose not to respond to the voluntary surveys are required to submit a mandatory annual counterpart corresponding to the more frequent survey.

# NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM (NAICS), 1997

The adoption of the North American Industry Classification System (NAICS) in the 1997 Economic Census has had a major impact on the comparability of current and historic data. Approximately half of the industries in the manufacturing sector of NAICS do not have comparable industries in the Standard Industrial Classification (SIC) system that was used in the past.

While most of the change affecting the manufacturing sector was change within the sector, some industries left manufacturing and others came into manufacturing. Prominent among those that left manufacturing are logging and portions of publishing. Prominent among the industries that came into the manufacturing sector are bakeries, candy stores where candy is made on the premises, custom tailors, makers of custom draperies, and tire retreading. The net effect of the classification changes are such that if the 1997 value of shipments data for all manufacturers were tabulated on an SIC basis, it would be approximately 3 percent higher.

Listed below are the NAICS sectors:

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

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

The 20 NAICS sectors are subdivided into 96 subsectors (three-digit codes), 313 industry groups (four-digit codes), and, as implemented in the United States, 1170 industries (five- and six-digit codes).

#### **FUNDING**

The Census Bureau funds most of the surveys. However, a number of surveys are paid for either fully or partially by other Federal Government agencies or private trade associations. A few surveys are mandated, but all are authorized by Title 13 of the United States Code.

# **RELIABILITY OF DATA**

Survey error may result from several sources including the inability to obtain information about all cases in the survey, response errors, definitional difficulties, differences in the interpretation of questions, mistakes in recording or coding the reported data, and other errors of collection, response, coverage, and estimation. These nonsampling errors also occur in complete censuses. Although no direct measurement of the biases due to these nonsampling errors has been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize their influence.

A major source of bias in the published estimates is the imputing of data for nonrespondents, for late reporters, and for data that fail logic edits. Missing figures are imputed based on period-to-period movements shown by reporting firms. A figure is considered to be an impute if the value was not directly reported on the questionnaire, directly derived from other reported items, directly available from supplemental sources, or obtained from the respondent during the analytical review phase. Imputation generally is limited to a maximum of 10 percent for any one data cell. Figures with imputation rates greater than 10 percent are suppressed or footnoted. The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse, because the actual yearly movements for nonrespondents may or may not closely agree with the imputed movements. The range of difference between the actual and imputed figures is assumed to be small. The degree of uncertainty regarding the accuracy of the published data increases as the percentage of imputation increases. Figures with imputation rates above 10 percent should be used with caution.

### **DATA REVISIONS**

Statistics for previous years may be revised as the result of corrected figures from respondents, late reports for which imputations were originally made, or other corrections. Data that have been revised by more than 5 percent from previously published data are indicated by footnotes.

#### **DISCLOSURE**

The Census Bureau collects the CIR data under the authority of Title 13, United States Code, which specifies that the information can only be used for statistical purposes and cannot be published or released in any manner that would identify a person, household, or establishment. "D" indicates that data in the cell have been suppressed to avoid disclosure of information pertaining to individual companies.

# **EXPLANATION OF GENERAL TERMS**

**Capacity.** The maximum quantity of a product that can be produced in a plant in 1 day if operating for 24 hours. Includes the capacity of idle plants until the plant is reported to be destroyed, dismantled, or abandoned.

**Consumption.** Materials used in producing or processing a product or otherwise removing the product from the inventory.

**Exports.** Includes all types of products shipped to foreign countries, or to agents or exporters for reshipment to foreign countries.

Gross shipments. The quantity or value of physical shipments from domestic establishments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale or use. Shipments of products purchased for resale are omitted. Shipments of products made under toll arrangements are included.

**Interplant transfers.** Shipments to other domestic plants within a company for further assembly, fabrication, or manufacture.

**Inventories.** The quantity or value of finished goods, work in progress, and materials on hand.

Machinery in place. The number of machines of a particular type in place as of a particular date whether the machinery was used for production, prototype, or sampling, or was idle. Machinery in place includes all machinery set up in operating positions.

**Net receipts.** Derived by subtracting the materials held at the end of the previous month from the sum of materials used during the current month.

**Production.** The total volume of products produced, including: products sold; products transferred or added to inventory after adjustments for breakage, shrinkage, and obsolescence, plus any other inventory adjustment; and products that undergo further manufacture at the same establishment.

**Quantities produced and consumed.** Quantities of each type of product produced by a company for internal consumption within that same company.

Quantity and value of new orders. The sales value of orders received during the current reporting period for products and services to be delivered immediately or at some future date. Also represents the net sales value of contract change documents that increase or decrease the sales value of the orders to which they are related, when the parties concerned are in substantial agreement as to the amount involved. Included as orders are only those that are supported by binding legal documents such as signed contracts or letter contracts.

Quantity and value of shipments. The figures on quantity and value of shipments represent physical shipments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and

returns. Shipments to a company's own branches are assigned the same value as comparable appropriate allocation of company overhead and profit. Products bought and resold without further manufacture are excluded.

**Stocks**. Total quantity of ending finished inventory.

**Unfilled orders (backlog).** Calculated by adding net new orders and subtracting net sales from the backlog at the end of the preceding year.

## HISTORICAL NOTE

Data on insulated wire have been collected by the Census Bureau since 1965. Historical data may be obtained from Current Industrial Reports available at your local Federal Depository Library.