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SUMMARY OF FINDINGS

In 2002, the total value of manufacturers' shipments of copper insulated wire and cable

decreased by 31.1 percent to \$11,542.3 million from \$16,757.6 million in 2001. Copper magnet wire decreased to \$851.1 million in 2002, down 9.8 percent from \$943.6 million in 2001. Aluminum magnet wire decreased by 4.2 percent in 2002 to \$99.4 million from the 2001 value of \$116.0 million. In 2002, insulated optical fiber cable decreased by 54 percent to \$1,681.1 million from the 2001 value of shipment totaling \$3,646.2. Optical fiber had a large decrease, dropping 67.3 percent to \$662.7 million from the 2001 total of \$2,023.4 million.

Quantity of shipments of aluminum insulated wire and cable showed an insignificant decrease for 2002, totaling 439.1 million pounds, from the 2001 total of 440.8 million pounds.

For general CIR information, explanation of general terms and historical note, see the appendix.

Address inquiries concerning these data to Primary Goods Industries Branch, Manufacturing and Construction Division (MCD), Washington, DC 20233-6900, or call Stephanie Angel, 301-763-4698.

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

U S C E N S U S B U R E A U

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Economics and Statistics Administration
U.S. CENSUS BUREAU



Table 1. Summary of Shipments of Copper Insulated Wire and Cable: 2002 and 2001
 [Value in thousands of dollars]

Product code	Product description	2002	2001
	Insulated wire and cable.....	11,542,264	16,757,633
335929A	Electronic wire and cable.....	2,233,578	2,657,515
335929B	Telephone and telegraph wire and cable.....	1,271,253	2,074,443
3359291	Power wire and cable.....	1,391,573	1,545,753
3359291	Portable power cable.....	117,890	137,945
335929C	Control and signal wire and cable.....	204,403	197,301
335929D	Building wire and cable.....	1,955,791	2,121,077
331491E	Apparatus wire and cordage.....	617,269	735,411
335929E	Other insulated wire and cable.....	555,640	675,032
331491G	Magnet wire.....	851,120	943,596
3359210	Insulated optical fiber cable.....	1,681,082	3,646,176
327215A	Optical fiber.....	662,665	2,023,384

Table 2. Shipments of Copper Insulated Wire and Cable: 2002 and 2001
 [Shipments in thousands of pounds. Value in thousands of dollars]

Product code	Product description	Shipments, including interplant transfers 1/					
		No. of cos.	2002		No. of cos.	2001	
			Copper content 2/	Total Value		Copper content 2/	Total Value
335929 pt.	Insulated wire and cable (except magnet wire and optical wire).....	(NA)	2,448,664	8,347,397	(NA)	2,843,740	10,144,477
335929A	Electronic wire and cable.....	84	178,087	2,233,578	88 r/	231,679	r/ 2,657,515
	Coaxial cable, armored or unarmored:						
335929A100	Rigid.....	2	(D)	(D)	2	(D)	(D)
335929A120	Semirigid.....	16	28,612	347,589	16	38,173	413,766
	Flexible:						
335929A130	135 C and over.....	13	2,807	63,070	13 r/	4,685	r/ 84,924
335929A140	Under 135 C.....	23	14,433	350,758	25	19,668	450,603
335929A150	CATV/broadcast coaxial cable.....	9	(D)	(D)	10	(D)	(D)
335929A160	Antenna lead-in wire.....	6	(D)	(D)	8	(D)	(D)
	Hookup wire (single conductor, shielded and nonshielded):						
335929A170	135 C and over temperature rating.....	23	10,174	154,172	24 r/	12,739	r/ 210,429
335929A180	Under 135 C temperature rating.....	31 a/	18,139 b/	93,737	34 a/	15,589	b/ 99,179
	Multiconductor electronic wire and cable (shielded and nonshielded):						
335929A190	Flat and ribbon cable.....	19 a/	4,935	64,362	20 a/	5,577	74,426
	Other multiconductor electronic wire and cable:						
	Shielded:						
335929A1A0	135 C and over temperature rating.....	20	17,496	142,090	20 r/	24,970	r/ 200,844
335929A1B0	Under 135 C temperature rating.....	33	28,582 a/	256,685	34 r/	31,091	r/ 266,414
	Nonshielded:						
335929A1C0	135 C and over temperature rating.....	10	7,000	73,626	10 r/	8,031	r/ 90,308
335929A1D0	Under 135 C temperature rating.....	26	35,645 a/	234,510	27	58,888	r/ 239,096
335929B	Telephone and telegraph wire and cable.....	25	325,463	1,271,253	29	504,818	2,074,443
335929B110	Jumper and distributing frame wire.....	4	(D)	(D)	5	(D)	(D)
335929B120	Station wire and cable.....	10	10,167	42,041	12	11,121	44,378
335929B130	Telephone cord sets and cordage.....	5	(D)	(D)	6	2,947	22,461
335929B140	Inside wiring cable.....	13	64,351	423,994	16	80,947	639,164
335929B150	Drop and bridle and duct wire.....	4	(D)	(D)	4	(D)	(D)
335929B160	Rural and urban distribution wire and cable.....	3	(D)	(D)	4	(D)	(D)
335929B170	Polyethylene covered exchange area and toll cable (PIC and PULP insulated).....	5	171,399	478,650	5	305,577	831,868
335929B180	Other telephone and telegraph wire and cable.....	8	(D)	(D)	7	(D)	(D)
3359291	Power wire and cable.....	24	288,181	1,391,573	25	318,534	1,545,753
3359291810	Paper insulated cable (all voltages, all types).....	1	(D)	(D)	1	(D)	(D)
	Plastic and rubber insulated:						
	2 kV or less:						
3359291820	Portable welding cable.....	8 a/	14,661 a/	34,033	8 a/	14,668	a/ 37,820
3359291830	Underground distribution cable (UD, URD).....	9 a/	7,150	298,453	9	7,742	296,715
3359291840	Thermoplastic insulated power cable.....	9 b/	19,824 a/	43,322	9 a/	21,140	a/ 54,285
	Thermoset insulated:						
3359291850	Armored, rubber and cross linked.....	8 a/	14,398 a/	40,649	9	13,831	38,132
3359291860	Unarmored, rubber.....	8	18,351	68,774	7	20,105	77,661
3359291870	Unarmored, cross linked.....	8 a/	13,934 a/	38,336	11	19,855	a/ 65,709
3359291880	Rubber (R, RH, RHH, RHW).....	3	(D)	(D)	3	(D)	(D)
3359291890	Weatherproof cable.....	4 b/	2,103 a/	6,891	4	1,980	7,756
3359291891	Service drop cable, thermoset and thermoplastic insulated.....	4 a/	539	69,673	5 a/	405	72,462
	Over 2 kV:						
33592918C0	Underground distribution cable (UD, URD), all insulations (jacketed and unjacketed).....	9	57,009	329,291	9	65,449	379,915
33592918D0	Thermoplastic insulated power cable, excluding underground.....	5	(D)	(D)	4	(D)	(D)
	Thermoset insulated power cable, excluding underground:						
	2 kV to 15 kV:						
33592918E0	Armored, rubber and cross-linked.....	8	14,820	58,358	8	17,978	71,573
33592918F0	Unarmored, rubber.....	9	63,794	178,774	9	64,569	188,802
33592918G0	Unarmored, cross-linked.....	6	10,140	33,280	6	10,052	39,902
33592918H0	Over 15.1 kV (rubber and cross-linked).....	4	(D)	(D)	4	(D)	(D)
33592918I0	Other power wire and cable.....	5 a/	7,902 a/	31,136	4 b/	4,077	b/ 15,680
3359291	Portable power cable.....	8	30,278	117,890	5	36,623	137,945
33592918J0	2 kV or less portable cable.....	7	(D)	(D)	7	(D)	(D)
33592918M0	Over 2 kV portable crosslinked and noncross-linked.....	3	(D)	(D)	3	(D)	(D)

Continued

Table 2. Shipments of Copper Insulated Wire and Cable: 2002 and 2001
 [Shipments in thousands of pounds. Value in thousands of dollars]

Product code	Product description	Shipments, including interplant transfers 1/					
		2002			2001		
		No. of cos.	Copper content 2/	Total Value	No. of cos.	Copper content 2/	Total Value
335929C	Control and signal wire.....	20	41,222	204,403	23	38,438	197,301
335929C110	Signal wire and cable.....	13	20,174	126,492	14	19,108	129,448
	Control wire and cable, excluding elevator cable:						
335929C120	Thermoset insulated.....	7 b/	6,970 a/	33,361	8 a/	6,408 a/	36,048
335929C130	Thermoplastic insulated.....	14	14,078	44,550	15 a/	12,922 a/r/	31,805
335929D	Building wire and cable.....	25	1,269,936	1,955,791	28	1,329,129	2,121,077
	Building wire and cable having underwriters' labels:						
	Thermoset insulated:						
335929D110	Cross-linked polyethylene (XHHW).....	14 a/	43,709 a/	91,335	16	47,441	106,169
335929D120	Cross-linked polyethylene (XLP, USE).....	13 b/	19,534 a/	47,104	13	26,880	64,139
	Thermoplastic insulated:						
335929D130	Flame-retardant nylon (THHN, THWN).....	16	659,924	807,940	17	748,069	965,580
335929D140	Moisture and heat resistant (TW, THW).....	10 a/	1,929 a/	3,490	11 b/	1,716 b/	3,277
335929D150	Service entrance cable (SER, SEU, ASE).....	10	10,044	105,319	9 b/	8,326	109,375
	Nonmetallic branch-circuit and underground feeder:						
335929D160	Type NM-B.....	8	424,641	593,383	9	396,079	570,501
335929D170	Type UF and NMC (corrosion resistant).....	9	40,060	67,963	10	39,489	67,100
335929D181	Metallic armored cable (AC type).....	2	(D)	(D)	2	(D)	(D)
335929D183	Metallic armored cable (MC type).....	5	(D)	(D)	5	(D)	(D)
335929D190	Other building wire and cable.....	11 a/	12,199	51,186	11 a/	15,229 a/	60,480
331491E	Apparatus wire and cordage 3/.....	43	184,887	617,269	45	216,324	735,411
	Flexible cordage:						
331491E110	Thermoset insulated.....	11	11,287	46,128	10	13,962	56,247
331491E120	Thermoplastic, including thermoplastic elastomers.....	17 a/	27,765 b/	56,211	17 a/	27,858 a/	58,618
331491E180	Extension cord sets.....	8 b/	32,112 c/	136,598	7	46,703	191,282
331491E190	Fixed power supply cords.....	13	9,661	65,855	15	12,679	71,283
331491E1A0	Detachable power supply cords.....	4	647 a/	2,048	4	772 a/	2,093
331491E1B0	Retractable power cords and other.....	9 a/	803	12,111	9 a/	738	12,479
	Apparatus wire:						
331491E130	Appliance fixture wire.....	20	30,254 a/	86,329	21	31,943 a/	86,180
331491E145	Appliance wiring material 14 gauge and larger, including motor lead and transformer lead wire, thermoset and thermoplastic insulated.....	10 a/	29,812	72,185	11	40,357	118,144
331491E160	Submersible pump cable.....	9	15,853	52,018	9	14,628	51,872
331491E170	Other apparatus wire and cordage, including machine tool wire.....	17	26,693	87,786	18	26,684 r/	87,213
335929E	Other insulated wire and cable.....	45	130,610	555,640	44 r/	168,195 r/	675,032
	Automotive:						
335929E110	Bulk automotive primary wire.....	13	64,502	139,497	13 b/	86,452 b/	181,208
335929E120	Bulk battery cable.....	6	(D)	(D)	6	(D)	(D)
335929E130	Bulk ignition wire.....	8	(D)	(D)	8	(D)	(D)
335929E140	Other automotive wire and cable.....	8	11,149	65,653	9 r/	21,286 r/	117,961
	Airframe, shipboard and ground support cable, excluding coaxial cable and ignition cable:						
335929E150	Airframe and missile, including ground support cable.....	10	1,757	22,298	10	2,349	28,205
335929E160	Shipboard cable.....	5	2,785	8,754	5 a/	2,316 a/	7,795
335929E170	Other insulated or covered wire and cable, n.e.c.	21 c/	38,403 b/	217,298	23 c/	41,169 b/	249,295

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.

1/Interplant transfers for 2002 totaled \$29,976 and for 2001 totaled \$63,355.

2/Aluminum content for 2002 totaled 439,145 thousand pounds and for 2001 totaled 440,760 thousand pounds. Aluminum shipment values are included in total value. See Table 3 for additional details.

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

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.

Table 3. Aluminum Shipments of Selected Insulated Wire and Cable: 2002 and 2001
 [Aluminum gross weight shipments in thousands of pounds]

Product code	Product description	No. of cos.	2002		2001	
			Aluminum content 1/	No. of cos.	Aluminum content 1/	No. of cos.
335929 pt.	Insulated wire (except magnet wire).....	(NA)	439,145	(NA)	440,760	
335929A	Electronic wire and cable.....	2	(D)	3	(D)	
3359291	Power wire and cable.....	13	296,547	10	289,486	
3359291830	Underground distribution cable, all insulations--2 kV or less.....	6	175,469	6	167,026	
3359291891	Service drop cable, thermoset and thermoplastic insulated.....	3	43,176	3	42,639	
33592918C0	Underground distribution cable, all insulations--over 2 kV.....	9	44,114	8	48,299	
33592918F0	Thermoset insulated power cable, unarmored, rubber--2 kV to 15 kV.....	5	2,781	5	4,285	
33592918G0	Thermoset insulated power cable, unarmored, cross-linked--2 kV to 15 kV.....	3	(D)	3	(D)	
335929D1	Building wire and cable.....	6	85,078	6	86,470	
335929D110	Thermoset insulated, cross-linked polyethylene (XHHW).....	6	19,859	6	23,753	
335929D150	Service entrance cable (SER, SEU, ASE).....	6	33,905	5	34,401	
335929E1	Other insulated wire and cable.....	3	(D)	3	(D)	

D Withheld to avoid disclosing data for individual companies. NA Not available. pt. Part.

1/Value of Aluminum content is included in total value of Table 2.

Note: Gross weight includes insulating materials, but excludes packing materials.

Table 4. Copper Shipments of Magnet Wire, Including Interplant Transfers: 2002 and 2001
[Copper gross weight in thousands of pounds. Value in thousands of dollars]

Product code	Product description	Shipments, including interplant transfers 1/					
		No. of cos.	2002		No. of cos.	2001	
			Gross weight 2/	Value		Gross weight 2/	Value
331491G	Magnet wire.....	(NA)	585,031	851,120	(NA)	627,575	943,596
	Class 105 and below:						
331491G110	7 AWG and larger round, including all square and rectangle, film coated.....	5	10,556	13,582	6	9,600	11,541
331491G120	8 to 21 AWG, film coated.....	5	37,561	37,520	6	32,991	34,168
331491G130	22 to 32 AWG, film coated.....	6	1,791	2,815	6	1,406	2,443
331491G140	33 to 44 AWG, film coated.....	6	(D)	(D)	6	(D)	(D)
	Class 130 to 155:						
331491G150	7 AWG and larger round, including all square and rectangle, film coated.....	1	(D)	(D)	1	(D)	(D)
331491G160	8 to 21 AWG, film coated.....	12	14,284	20,608	11	17,280	25,376
331491G170	22 to 32 AWG, film coated.....	14	50,416	80,914	15	61,263	102,672
331491G180	33 to 44 AWG, film coated.....	12	15,788	47,089	13	17,330	52,999
	Class 180 and above:						
331491G190	7 AWG and larger round, including all square and rectangle, film coated.....	7	27,182	43,344	7	34,093	56,594
331491G1A0	8 to 21 AWG, film coated.....	12	264,969	309,608	12	273,525	325,388
331491G1B0	22 to 32 AWG, film coated.....	12	114,062	161,651	12	117,843	174,343
331491G1C0	33 to 44 AWG, film coated.....	10	6,989	28,229	11	6,049	26,312
331491G1I0	Miscellaneous film coated, n.e.c.	2	(D)	(D)	2	(D)	(D)
	Nonfilm coated (fibrous):						
331491G1D0	Class 130 and below.....	3	(D)	(D)	3	(D)	(D)
331491G1F0	Class 155 and above.....	6	9,908	24,574	6	12,634	29,990
	Nonfilm coated (tape):						
331491G1E0	Class 130 and below.....	4	12,486	18,764	4	16,772	25,671
331491G1G0	Class 155 and above.....	5	4,486	9,064	5	6,110	13,315
331491G1H0	Miscellaneous nonfilm coated, n.e.c.	2	(D)	(D)	1	(D)	(D)

D Withheld to avoid disclosing data for individual companies. NA Not available. n.e.c. Not elsewhere classified.

1/Interplant transfers for 2002 totaled 13,960 thousand pounds of copper and 2001 totaled 13,585 thousand pounds of copper.

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

Table 5. Aluminum Shipments of Magnet Wire, Including Interplant Transfers: 2002 and 2001
 [Aluminum gross weight in thousands of pounds. Value in thousands of dollars]

Product code	Product description	Shipments, including interplant transfers 1/					
		No. of cos.	2002 Gross weight 2/	2002 Value	No. of cos.	2001 Gross weight 2/	2001 Value
331491G	Magnet wire.....	(NA)	55,461	99,403	(NA)	63,382	115,800
	Class 105 and below:						
331491G110	7 AWG and larger round, including all square and rectangle, film coated.....	4	(D)	(D)	4	(D)	(D)
331491G120	8 to 21 AWG, film coated.....	5	11,367	18,010	5	11,554	20,474
331491G130	22 to 32 AWG, film coated.....	1	(D)	(D)	2	(D)	(D)
331491G140	33 to 44 AWG, film coated.....	1	(D)	(D)	1	(D)	(D)
	Class 130 to 155:						
331491G150	7 AWG and larger round, including all square and rectangle, film coated.....	1	(D)	(D)	1	(D)	(D)
331491G160	8 to 21 AWG, film coated.....	4	3,896	7,379	4	5,171	10,055
331491G170	22 to 32 AWG, film coated.....	4	1,213	3,261	4	1,274	3,380
331491G180	33 to 44 AWG, film coated.....	-	-	-	-	-	-
	Class 180 and above:						
331491G190	7 AWG and larger round, including all square and rectangle, film coated.....	4	1,360	3,042	4	1,703	3,876
331491G1A0	8 to 21 AWG, film coated.....	8	21,197	39,198	9	26,538	47,030
331491G1B0	22 to 32 AWG, film coated.....	5	1,895	4,781	7	2,145	5,717
331491G1C0	33 to 44 AWG, film coated.....	1	(D)	(D)	1	(D)	(D)
331491G1I0	Miscellaneous film coated, n.e.c.	1	(D)	(D)	1	(D)	(D)
	Nonfilm coated (fibrous):						
331491G1D0	Class 130 and below.....	-	-	-	-	-	-
331491G1F0	Class 155 and above.....	1	(D)	(D)	1	(D)	(D)
	Nonfilm coated (tape):						
331491G1E0	Class 130 and below.....	2	(D)	(D)	2	(D)	(D)
331491G1G0	Class 155 and above.....	3	5,496	9,375	3	5,108	9,116
331491G1H0	Miscellaneous nonfilm coated, n.e.c.	-	-	-	-	-	-

- Represents zero. D Withheld to avoid disclosing data for individual companies. NA Not available. n.e.c. Not elsewhere classified.

1/Interplant transfers for 2002 totaled 2,727 thousand pounds of aluminum and for 2001 totaled 4,821 thousand pounds of aluminum.

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

Table 6. Value of Shipments of Fiber Optic Cable: 2002 and 2001
[Thousands of dollars]

Product code	Product description	2002		2001	
		No. of cos.	Value	No. of cos.	Value
33592101	Insulated optical fiber cable.....	31	1,681,082	32	3,646,176
33592101 pt.	Communication applications.....	23	1,662,173	21	3,622,920
	Single-mode stepped-index:				
3359210125	Dispersion shifted.....	11	618,761	11	1,330,498
3359210128	Dispersion unshifted	20	832,013	21	2,030,982
3359210131	Multimode stepped index.....	5	59,333	5	55,283
3359210134	Multimode graded index	18	152,066	17	206,157
3359210434	Other applications.....	8	18,909	11	23,256
pt. Part.					

Table 7. Value of Shipments of Optical Fiber: 2002 and 2001
[Thousands of dollars]

Product code	Product description	2002		2001	
		No. of cos.	Value	No. of cos.	Value
	Optical fiber for data and nondata transmission.....	20	662,665	21	2,023,384
327215A235	Optical fiber used for data transmission.....	12	595,985	11	1,881,806
327215A238	Optical fiber used for nondata transmission.....	8	66,680	10	141,578

Table 8. Shipments, Exports, Imports, and Apparent Consumption of Insulated Wire and Cable: 2002
 [Quantity in thousands of units. Value in millions of dollars]

Product code	Product description	Manufacturers' shipments (f.o.b. plant)		Exports of domestic merchandise 1/ 2/		Imports for consumption 1/ 3/	
		Quantity	Value	Quantity	Value	Quantity	Value
331491G110, 120, 130, 140, 150, 160, 170, 180, 190, 331491G1A0, 1B0, 1C0, 1D0, 1E0, 1F0, 1G0, 1H0, 1I0	Magnet wire (copper)	585.0	851.1	72.6	307.5	33.6	125.5
331491G110, 120, 130, 140, 150, 160, 170, 180, 190, 331491G1A0, 1B0, 1C0, 1D0, 1E0, 1F0, 1G0, 1H0, 1I0	Magnet wire (other than copper).....	55.5	99.4	17.7	107.8	1.4	10.7
335929A100, 120, 130, 140, 150	Coaxial cable.....	54.6	1,202.9	46.6	359.0	31.2	262.2
3359210125, 128, 131, 134, 3359210434	Optical fiber cables.....	(X)	1,681.1	524.6	187.0	434.7	155.5
327215A235, 238	Optical fibers, bundles, and cables.....	(X)	662.7	2,065.8	287.0	96.0	22.1
335929B110, 120, 130, 140, 150, 160, 170, 180, 335929E150, 160	Other wire and cable used for telecommunications (except fiber optics).....	330.0	1,302.3	(NA)	(NA)	(NA)	366.8

NA Not available. X Not applicable.

1/For comparison of North American Industry Classification System (NAICS)-based product codes with Schedule B export codes and HTSUSA import codes, see Table 9.

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

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

Table 9. Comparison of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes and HTSUSA Import Codes: 2002

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 (other than copper).....	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	9001.10.0030 9001.10.0050 9001.10.0070 9001.10.0085
335929B110, 120, 130, 140, 150 160, 170 180 3359291810, 830, 8C0, 335929E160	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: 2002 edition, Harmonized System-Based Schedule B, Statistical Classification of Domestic Domestic and Foreign Commodities Exported from the United States.

2/Source: Harmonized Tariff Schedule of the United States, Annotated (2002).

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.