Insulated Wire and Cable: 2003

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SUMMARY OF FINDINGS

In 2003, the total value of manufacturers' shipments of copper insulated wire and cable decreased by 4.9 percent to $11.4 billion from $11.9 billion in 2002. Quantity of shipments of aluminum insulated wire and cable shows a 2.6-percent increase for 2003, totaling 458.4 million pounds, a small increase from the 2002 total of 446.7 million pounds. Copper magnet wire increased to $916.8 million, up 4.5 percent from $877.6 million in 2002. Aluminum magnet wire decreased 19.6 percent in 2003 to $82.3 million from the 2002 value of $102.4 million. In 2003, insulated optical fiber cable decreased by 30 percent to $895.2 million from the 2002 value of shipment totaling $1.3 billion. Optical fiber also decreased, dropping 7.7 percent to $449.9 million from the 2002 total of $487.4 million.

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.

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

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Table 1. Summary of Shipments of Insulated Wire and Cable: 1998 to 2003
[Value in millions of dollars]

Product class code	Product description	2003		2002	2001	2000	1999	1998
	Insulated wire and cable	11,360.8		11,944.8	16,873.4	19,751.3	16,415.6	15,382.3
335929A	Electronic wire and cable	2,309.9	r/	2,576.2	2,657.5	3,530.8	2,876.2	2,790.2
335929B	Telephone and telegraph wire and cable	1,276.0		1,290.9	2,074.4	2,663.1	2,117.9	2,257.9
3359291	Power wire and cable	1,472.3	r/	1,466.0	1,545.8	1,682.9	1,657.1	1,579.7
3359291	Portable power cable	134.5		117.9	137.9	25.6	31.4	35.9
335929C	Control and signal wire and cable	193.3		208.0	197.3	172.7	226.9	287.7
335929D	Building wire and cable	2,433.8	r/	2,302.4	2,121.1	2,379.6	2,812.6	2,768.7
331491E	Apparatus wire and cordage	677.1		629.2	735.4	857.5	838.3	851.8
335929E	Other insulated wire and cable	519.7	r/	604.3	675.0	660.8	440.0	491.6
331491G	Magnet wire	999.1	r/	980.0	1,059.4	1,232.3	1,279.7	1,188.5
3359210	Insulated optical fiber cable	895.2	r/	1,282.5	3,646.2	4,070.5	2,656.4	1,936.6
327215A	Optical fiber	449.9	r/	487.4	2,023.4	2,475.5	1,479.1	1,193.7

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

Table 2. Shipments of Copper Insulated Wire and Cable: 2003 and 2002
[Shipments in thousands of pounds. Value in thousands of dollars]

Product code	Product description	Shipments, including interplant transfers 1/ 2003 Number of companies	2003 Copper content 2/	2003 Value	Shipments, including interplant transfers 1/ 2002 Number of companies	2002 Copper content 2/	2002 Value
335929 pt.	Insulated wire and cable (except magnet wire and optical wire)	(NA)	2,689,472	9,016,445	(NA) r/	2,639,123 r/	9,194,887
335929A	Electronic wire and cable	80	237,767	2,309,854	85 r/	246,612 r/	2,576,192
	Coaxial cable, armored or unarmored:						
335929A100	Rigid 3/	2	(D)	(D)	1	(D)	(D)
335929A120	Semirigid 3/	13	(D)	(D)	15	(D)	(D)
	Flexible:						
335929A130	135 C and over	10	3,596	78,334	12 r/	3,259	64,318
335929A140	Under 135 C	21	23,108	331,679	21 r/	16,204 r/	369,666
335929A150	CATV/broadcast coaxial cable 3/	9	(D)	(D)	9	(D)	(D)
335929A160	Antenna lead-in wire 3/	5	37,958	723,374	6	40,744	808,004
	Hookup wire (single conductor, shielded and nonshielded):						
335929A170	135 C and over temperature rating	23	9,227	152,167	23	10,195	151,615
335929A180	Under 135 C temperature rating	32	69,528	353,022	32 r/	72,187 r/	376,440
	Multiconductor electronic wire and cable (shielded and nonshielded):						
335929A190	Flat and ribbon cable	15 a/	4,851	58,408	19 r/	5,204	64,589
	Other muticonductor electronic wire and cable:						
	Shielded:						
335929A1A0	135 C and over temperature rating	20	21,438	141,850	20 r/	20,230	143,651
335929A1B0	Under 135 C temperature rating	31	33,165	257,341	34 r/	33,491 a/r/	284,235
	Nonshielded:						
335929A1C0	135 C and over temperature rating	10	5,093	44,091	10 r/	8,307	74,207
335929A1D0	Under 135 C temperature rating	24	29,803	169,588	26	36,791 a/	239,467
335929B	Telephone and telegraph wire and cable	27	331,585	1,275,964	27	327,955	1,290,900
335929B110	Jumper and distributing frame wire 4/	3	(D)	(D)	4	(D)	(D)
335929B120	Station wire and cable	11	9,402	36,583	10	10,167	42,041
335929B130	Telephone cord sets and cordage 4/	7	(D)	(D)	6	(D)	(D)
335929B140	Inside wiring cable	14	54,958	426,487	14	64,973	429,521
335929B150	Drop and bridle and duct wire 4/	4	(D)	(D)	4	(D)	(D)
335929B160	Rural and urban distribution wire and cable 4/	3	(D)	(D)	3	(D)	(D)
335929B170	Polyethylene covered exchange area and toll cable (PIC and PULP insulated)	5	196,276	564,170	5	171,399	478,650
335929B180	Other telephone and telegraph wire and cable 4/	9	70,949	248,724	9	81,416	340,688
3359291	Power wire and cable	27	293,981	1,472,283	28	300,870 r/	1,465,980
3359291810	Paper insulated cable (all voltages, all types) 5/	1	(D)	(D)	1	(D)	(D)
	Plastic and rubber insulated:						
	2 kV or less:						
3359291820	Portable welding cable	8 a/	15,846	a/ 38,207	8 a/	14,661 a/	34,033
3359291830	Underground distribution cable (UD, URD)	8	7,854	301,849	9 a/r/	9,156	300,726
3359291840	Thermoplastic insulated power cable	10 a/	35,934	a/ 61,297	10 b/	20,244 a/r/	51,158
	Thermoset insulated:						
3359291850	Armored, rubber and cross linked	8	16,361	59,131	8 a/	14,422 a/	40,712
3359291860	Unarmored, rubber	7	15,610	59,675	8	18,351	68,774
3359291870	Unarmored, cross linked	7 a/	5,931	b/ 16,905	8 a/	13,934 a/	38,336
3359291880	Rubber (R, RH, RHH, RHW) 5/	3	(D)	(D)	3	(D)	(D)
3359291890	Weatherproof cable	4	1,826	6,533	4 b/	2,103 a/	6,891
3359291891	Service drop cable, thermoset and thermoplastic insulated	4	(S)	65,557	4	(S)	69,673
	Over 2 kV:						
33592918C0	Underground distribution cable (UD, URD), all insulations (jacketed and unjacketed)	8	55,963	342,903	9	59,485	344,823
33592918D0	Thermoplastic insulated power cable, excluding underground 5/	5	(D)	(D)	5	(D)	(D)
	Thermoset insulated power cable, excluding underground:						
	2 kV to 15 kV:						
33592918E0	Armored, rubber and cross-linked	8	17,774	71,452	8	15,007	59,100
33592918F0	Unarmored, rubber	9	63,543	180,516	9	64,658	181,989
33592918G0	Unarmored, cross-linked	6	7,444	36,111	6	10,279	33,908
33592918H0	Over 15.1 kV (rubber and cross-linked) 5/	4	35,847	164,359	4	45,493	167,205
33592918I0	Other power wire and cable	7	14,048	67,788	6 r/	13,077 r/	68,652
3359291	Portable power cable	8	34,514	134,469	8	30,278	117,890
33592918J0	2 kV or less portable cable 6/	8	(D)	(D)	7	(D)	(D)
33592918M0	Over 2 kV portable cross-linked and noncross-linked 6/	2	34,514	134,469	3 a/	30,278 a/	117,890
335929C	Control and signal wire	24	40,001	193,303	22	41,397	207,973
335929C110	Signal wire and cable	17	22,528	124,913	15	20,349	130,062
	Control wire and cable, excluding elevator cable:						
335929C120	Thermoset insulated	8 a/	5,537	34,410	7 b/	6,970 a/	33,361
335929C130	Thermoplastic insulated	13	11,936	33,980	14	14,078	44,550

Continued

Table 2. Shipments of Copper Insulated Wire and Cable: 2003 and 2002
[Shipments in thousands of pounds. Value in thousands of dollars]

Product code	Product description	Shipments, including interplant transfers 1/ 2003 Number of companies		Copper content 2/		Value	Shipments, including interplant transfers 1/ 2002 Number of companies		Copper content 2/		Value
335929D	Building wire and cable	25		1,425,359		2,433,782	26	r/	1,375,920	r/	2,302,440
	Building wire and cable having underwriters' labels:										
	Thermoset insulated:										
335929D110	Cross-linked polyethylene (XHHW)	14		36,834		84,093	14	a/	42,042	a/	88,102
335929D120	Cross-linked polyethylene (XLP, USE)	13		20,115		51,305	13	b/	18,972	a/	47,001
	Thermoplastic insulated:										
335929D130	Flame-retardant nylon (THHN, THWN)	16		676,815		885,095	16		650,373		796,391
335929D140	Moisture and heat resistant (TW, THW)	11	a/	2,495	a/	4,223	10	b/	1,929	b/	3,490
335929D150	Service entrance cable (SER, SEU, ASE)	9		10,118		109,652	10		10,044		105,319
	Nonmetallic branch-circuit and underground feeder:										
335929D160	Type NM-B	8		476,799		708,666	8		424,641		593,383
335929D170	Type UF and NMC (corrosion resistant)	9		40,231		72,255	9		40,060		67,963
335929D181	Metallic armored cable (AC type) 7/	1		(D)		(D)	2		(D)		(D)
335929D183	Metallic armored cable (MC type) 7/	6		(D)		(D)	6		(D)		(D)
335929D190	Other building wire and cable 7/	10		161,952		518,493	12		187,859		600,791
331491E	Apparatus wire and cordage 8/	43		193,055		677,130	43		185,408		629,246
	Flexible cordage:										
331491E110	Thermoset insulated	12		19,066		66,246	11		11,247		45,370
331491E120	Thermoplastic, including thermoplastic elastomers	17	a/	28,066	b/	52,509	17	a/	27,769	b/	56,272
331491E180	Extension cord sets	8	c/	30,190	c/	143,441	8	b/	32,112	c/	136,598
331491E190	Fixed power supply cords	12	c/	6,871	c/	50,744	13	c/	9,661	c/	65,855
331491E1A0	Detachable power supply cords	4		599	a/	1,808	4		647	a/	2,048
331491E1B0	Retractable power cords and other	9	b/	794		11,344	9	b/	803		12,111
	Apparatus wire:										
331491E130	Appliance fixture wire	19		28,299	a/	83,004	20		30,254	a/	86,329
331491E145	Appliance wiring material 14 gauge and larger, including motor lead and transformer lead wire), thermoset and thermoplastic insulated	12	a/	36,200		128,113	11	a/	30,511		87,852
331491E160	Submersible pump cable 9/	9		(D)		(D)	9		(D)		(D)
331491E170	Other apparatus wire and cordage, including machine tool wire 9/	17		42,970		139,921	16		42,404		136,811
335929E	Other insulated wire and cable	42		133,210		519,660	45		130,683		604,266
	Automotive:										
335929E110	Bulk automotive primary wire	12		69,507		142,242	13		64,502		139,497
335929E120	Bulk battery cable 10/	5		(D)		(D)	6		(D)		(D)
335929E130	Bulk ignition wire 10/	7		9,874		90,818	8		12,014		102,140
335929E140	Other automotive wire and cable	8		11,482		61,279	9		11,149		113,154
	Airframe, shipboard and ground support cable, excluding coaxial cable and ignition cable:										
335929E150	Airframe and missile, including ground support cable	9		1,913		22,557	10		1,755		22,298
335929E160	Shipboard cable	5		6,060		14,801	6		2,860		9,879
335929E170	Other insulated or covered wire and cable, n.e.c.	19	c/	34,374	b/	187,963	21	c/	38,403	b/	217,298

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. S Does not meet publication standards.

1/Interplant transfers for 2003 totaled $37,309 and for 2002 totaled $29,388.

2/Aluminum content for 2003 totaled 458,377 thousand pounds and for 2002 totaled 446,727 thousand pounds. Aluminum shipment values are included in total value. See Table 3 for additional details.

3/Product codes 335929A100, 335929A120, and 335929A150 are combined with product code 335929A160 to avoid disclosing data for individual companies.

4/Product codes 335929B110, 335929B130, 335929B150, and 335929B160 are combined with product code 335929B180 to avoid disclosing data for individual companies.

5/Product codes 3359291810, 3359291880, and 33592918D0 are combined with product code 33592918H0 to avoid disclosing data for individual companies.

6/Product code 33592918J0 is combined with product code 33592918M0 to avoid disclosing data for individual companies.

7/Product codes 335929D181 and 335929D183 are combined with product code 335929D190 to avoid disclosing data for individual companies.

8/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.

9/Product code 331491E160 is combined with product code 331491E170 to avoid disclosing data for individual companies.

10/Product code 335929E120 is combined with product code 335929E130 to avoid disclosing data for individual companies.

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.

Continued

Table 3. Aluminum Shipments of Selected Insulated Wire and Cable: 2003 and 2002
[Aluminum gross weight shipments in thousands of pounds]

Product code	Product description	2003		2002	
		Number of companies	Aluminum content 1/2/	Number of companies	Aluminum content 1/2/
335929 pt.	Insulated wire (except magnet wire)	(NA)	458,377	(NA)	446,727
335929A	Electronic wire and cable	3	(D)	2	(D)
3359291	Power wire and cable	12	300,395	14	300,338
3359291830	Underground distribution cable, all insulations--2kV or less	5	170,512	6	175,319
3359291891	Service drop cable, thermoset and thermoplastic insulated	3	37,883	3	43,176
33592918C0	Underground distribution cable, all insulations--over 2kV	8	40,252	9	45,523
33592918F0	Thermoset insulated power cable, unarmored, rubber--2kV to 15 kV	5	5,564	5	r/ 2,997
3359291 pt.	Other power wire and cable 3/	3	46,184	3	33,323
335929D1	Building wire and cable	7	82,560	9	84,562
335929D110	Thermoset insulated, cross-linked polyethylene (XHHW)	5	18,210	6	19,432
335929D150	Service enterance cable (SER, SEU, ASE)	5	35,911	6	33,905
335929E1	Other insulated wire and cable	3	(D)	3	(D)

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.

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

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

3/Product codes 3359291840-1890, 18D0-18E0, and 18G0-18I0, are combined as product code 3359291 pt. to avoid disclosing data for individual companies.

Table 4. Copper Shipments of Magnet Wire, Including Interplant Transfers: 2003 and 2002
[Copper gross weight in thousands of pounds. Value in thousands of dollars]

Product code	Product description	Shipments, including interplant transfers 1/					
		2003			2002		
		Number of companies	Gross weight 2/	Value	Number of companies	Gross weight 2/	Value
331491G	Magnet wire	(NA)	572,406	916,824	(NA)	593,990	877,559
	Class 105 and below:						
331491G110	7 AWG and larger round, including all square and rectangle, film coated	5	9,683	12,791	6	r/ 11,603	r/ 15,208
331491G120	8 to 21 AWG, film coated	4	34,160	31,044	5	37,561	37,520
331491G130	22 to 32 AWG, film coated	6	875	1,157	6	1,791	2,815
331491G140	33 to 44 AWG, film coated	6	(D)	(D)	6	(D)	(D)
	Class 130 to 155:						
331491G150	7 AWG and larger round, including and square and rectangle, film coated	-	-	-	1	(D)	(D)
331491G160	8 to 21 AWG, film coated	10	12,117	17,547	12	14,284	20,608
331491G170	22 to 32 AWG, film coated	11	39,046	64,279	14	50,416	80,914
331491G180	33 to 44 AWG, film coated	11	15,095	45,240	12	15,788	47,089
	Class 180 and above:						
331491G190	7 AWG and larger round, including all square and rectangle, film coated	7	37,206	64,946	8	r/ 34,037	r/ 54,255
331491G1A0	8 to 21 AWG, film coated	13	267,880	332,641	12	265,087	309,965
331491G1B0	22 to 32 AWG, film coated	12	119,390	180,704	12	114,101	166,370
331491G1C0	33 to 44 AWG, film coated	10	6,777	29,913	11	r/ 7,377	r/ 30,046
331491G1I0	Miscellaneous film coated, n.e.c.	1	(D)	(D)	2	(D)	(D)
	Nonfilm coated (fibrous):						
331491G1D0	Class 130 and below	3	(D)	(D)	3	(D)	(D)
331491G1F0	Class 155 and above	3	(D)	(D)	4	9,908	24,574
	Nonfilm coated (tape):						
331491G1E0	Class 130 and below	5	(D)	(D)	6	(D)	(D)
331491G1G0	Class 155 and above	5	5,246	11,756	5	4,486	9,064
331491G1H0	Miscellaneous nonfilm coated, n.e.c.	2	(D)	(D)	2	(D)	(D)

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

1/Interplant transfers for 2003 totaled 15,428 thousand pounds of copper and 2002 totaled 13,960 thousand pounds of copper.
2/Gross weight includes insulating materials, but excludes packing materials.

Table 5. Aluminum Shipments of Magnet Wire, Including Interplant Transfers: 2003 and 2002
[Aluminum gross weight in thousands of pounds. Value in thousands of dollars]

Product code	Product description	Shipments, including interplant transfers 1/					
		2003			2002		
		Number of companies	Gross weight 2/	Value	Number of companies	Gross weight 2/	Value
331491G	Magnet wire	(NA)	52,133	82,293	(NA)	58,265	102,404
	Class 105 and below:						
331491G110	7 AWG and larger round, including all square and rectangle, film coated	4	(D)	(D)	5	(D)	(D)
331491G120	8 to 21 AWG, film coated	4	11,463	15,391	5	11,367	18,010
331491G130	22 to 32 AWG, film coated	1	(D)	(D)	1	(D)	(D)
331491G140	33 to 44 AWG, film coated	-	-	-	1	(D)	(D)
	Class 130 to 155:						
331491G150	7 AWG and larger round, including and square and rectangle, film coated	-	-	-	1	(D)	(D)
331491G160	8 to 21 AWG, film coated	2	(D)	(D)	4	(D)	(D)
331491G170	22 to 32 AWG, film coated	2	(D)	(D)	4	1,213	3,261
331491G180	33 to 44 AWG, film coated	-	-	-	1	(D)	(D)
	Class 180 and above:						
331491G190	7 AWG and larger round, including all square and rectangle, film coated	5	3,266	6,679	5	1,445	3,312
331491G1A0	8 to 21 AWG, film coated	8	25,429	38,514	9	r/ 23,902	r/ 41,905
331491G1B0	22 to 32 AWG, film coated	6	2,139	4,366	5	(D)	(D)
331491G1C0	33 to 44 AWG, film coated	-	-	-	1	(D)	(D)
331491G1I0	Miscellaneous film coated, n.e.c.	-	-	-	1	(D)	(D)
	Nonfilm coated (fibrous):						
331491G1D0	Class 130 and below	-	-	-	-	-	-
331491G1E0	Class 155 and above	2	(D)	(D)	2	(D)	(D)
	Nonfilm coated (tape):						
331491G1F0	Class 130 and below	1	(D)	(D)	1	(D)	(D)
331491G1G0	Class 155 and above	3	1,963	3,738	3	(D)	(D)
331491G1H0	Miscellaneous nonfilm coated, n.e.c.	-	(D)	(D)	-	(D)	(D)

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

1/Interplant transfers for 2003 totaled 3,807 thousand pounds of aluminum and for 2002 totaled 2,727 thousand pounds of aluminum.
2/Gross weight includes insulating materials, but excludes packing materials.

Table 6. Value of Shipments of Fiber Optic Cable: 2003 and 2002
[Thousands of dollars]

Product code	Product description	2003 Number of companies	2003 Value	2002 Number of companies	2002 Value
33592101	Insulated optical fiber cable	30	895,228	34	1,282,520
33592101 pt.	Communication applications	23	(D)	21	(D)
	Single-mode stepped-index:				
3359210125	Dispersion shifted	14	222,807	13	r/ 422,310
3359210128	Dispersion unshifted	20	449,070	50	r/ 616,827
3359210131	Multimode stepped index	6	(D)	6	(D)
3359210134	Multimode graded index	16	147,799	17	152,577
3359210434	Other applications	8	(D)	8	(D)

D Withheld to avoid disclosing data for individual companies. pt. Part. r/Revised by 5 percent or more from previously published data.

Table 7. Value of Shipments of Optical Fiber: 2003 and 2002
[Thousands of dollars]

Product code	Product description	2003 Number of companies	2003 Value	2002 Number of companies	2002 Value
	Optical fiber for data and nondata transmission	16	449,863	19	487,408
327215A235	Optical fiber used for data transmission	9	386,240	11	r/ 420,728
327215A238	Optical fiber used for nondata transmission	7	63,623	8	66,680

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

Table 8. Shipments, Exports, Imports, and Apparent Consumption of Insulated Wire and Cable: 2003
[Quantity in thousands of units. Value in thousands 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	Quanity	Value	Quantity	Value 4/
331491G110, 120, 130, 140, 150, 160, 170, 180, 190, 331491G1A0, 1B0, 1C0, 1D0, 1E0, 1F0, 1G0, 1H0, 1I0	Magnet wire (copper).....	572,406	916,824	67,350	287,489	36,768	137,402
331491G110, 120, 130, 140, 150, 160, 170, 180, 190, 331491G1A0, 1B0, 1C0, 1D0, 1E0, 1F0, 1G0, 1H0, 1I0	Magnet wire (aluminum).....	52,133	82,293	15,568	89,785	2,407	13,172
335929A100, 120, 130, 140, 150	Coaxial cable.....	63,205	1,123,731	42,281	341,525	36,324	302,342
3359210125, 128, 131, 134, 3359210434	Optical fiber cables.....	(X)	895,228	411,062	168,168	1,386,098	154,316
327215A235, 238	Optical fibers, bundles, and cables.....	(X)	449,863	1,113,526	268,379	51,677	18,029
335929B110, 120, 130, 140, 150, 160, 170, 180, 335929E150, 160	Other wire and cable used for telecommunications (except fiber optics).....	339,558	1,313,322	(NA)	(NA)	(NA)	445,376

NA Not available. X Not applicable.

1/For comparision 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.

4/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 9. Comparision of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes, and HTSUSA Import Codes: 2003

Product code	Product description	Export code 1/	Import code 2/
331491G110, 120, 130, 104, 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 9001.10.0075 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 8544.51.4000 8544.51.7000

NA Not available.

1/Source: 2003 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 (2003).

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.