

Electric Lighting Fixtures: 2001

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SUMMARY OF FINDINGS. During 2001, the total value of shipments of electric lighting fixtures was \$6,809.7 million. This represents a 9-percent decrease from the 2000 total value of \$7,478.9 million. The 2001 data includes residential type fixtures, \$983.9 million, a decrease of 24 percent from 2000; commercial and institutional type fixtures, \$3,239.1 million, a decrease of 8 percent from 2000; industrial type fixtures, \$628.1 million, a decrease of 13 percent from 2000; and outdoor lighting equipment, \$1,923.2 million, a decrease of 2 percent from 2000. Vehicular lighting equipment data were discontinued in 1992.

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

Address inquiries concerning these data to Investment Goods Industries Branch, Manufacturing and Construction Division (MCD), Washington, DC 20233-6900, or call Vance Davis, 301-763-4790.

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. Value of Shipments of Electric Lighting Fixtures: 1997 to 2001
[Millions of dollars]

Product code	Product description	2001	2000	1999	1998	1997
	Electric lighting fixtures 1/.....	6,774.3	7,478.9	7,102.1	6,763.6	6,556.3
	Residential type.....	983.9	1,296.5	1,106.4	1,038.7	1,119.8
3351221	Commercial and institutional type (except spotlight).....	3,239.1	3,506.7	3,431.3	3,193.1	3,056.6
3351222	Industrial type.....	628.1	718.3	685.7	737.0	710.7
335129	Outdoor lighting equipment.....	1,923.2	1,957.4	1,878.7	1,794.8	1,669.3

1/Excludes product class 336321, "Vehicular Lighting Equipment," which is not available after 1991.

Table 2. Quantity and Value of Shipments of Electric Lighting Fixtures: 2001 and 2000
 [Quantity in thousands of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2001		2000	
			Quantity	Value	Quantity	Value
335121	Electric lighting fixtures, residential type.....	107	(X) b/	983,924	(X) b/r/	1,296,516
	Incandescent, excluding PAR lampholders and floodlights:					
	Interior, including bath or kitchen:					
3351211102	Ceiling or pendant.....	51 c/	17,383 c/	322,389 c/	17,123 c/r/	349,421
3351211104	Wall or bracket.....	41 c/	3,877 b/	99,440 b/	3,575 c/r/	112,911
	Track lighting:					
3351211206	Single circuit track lengths and accessories 1/.....	3	(X) (D)	(D)	(X) (D)	(D)
3351211208	Multiple circuit track lengths and accessories 1/.....	3	(X) (D)	(D)	(X) (D)	(D)
3351211211	Line voltage heads 1/.....	1	(D) (D)	(D)	(D) (D)	(D)
3351211212	Low voltage heads 1/.....	0	(D) (D)	(D)	(D) (D)	(D)
3351211214	Track lengths and heads, sold together (kits) 1/.....	1	(X) (D)	10,928	(X) r/	19,646
3351211216	Recessed IC (direct contact with ceiling ceiling insulation) 2/.....	8	(D) (D)	(D)	(D) (D)	(D)
3351211218	Recessed non-IC (3-inch minimum clearance from ceiling insulation) 2/.....	4	5,051 (D)	69,517	22,121 (D)	262,253
	Outdoor:					
3351211221	Designed for attachment to house.....	32 c/	4,132 c/	43,429 c/	3,561 c/	43,943
3351211222	Custom lighting (lanterns, etc.).....	5 b/	74 c/	1,650 b/r/	74 r/	1,696
3351211224	Not designed for attachment to house (garden, patio, and yard).....	25 a/	12,735 a/	150,762 a/	14,721 a/	205,336
	Fluorescent:					
	Wraparounds:					
3351211321	4 foot, 2 lamp 3/.....	7	(D) (D)	(D)	(D) (D)	(D)
3351211322	4 foot, 4 lamp 3/.....	7	(D) (D)	(D)	(D) (D)	(D)
3351211324	All other residential wraparounds 3/.....	7 c/	4,111 c/	79,497 c/	3,750 c/	78,777
3351211328	Ceiling mounted decorative.....	22 c/	5,837 a/	94,012 c/	5,574 a/	97,852
3351211331	Ceiling mounted general purpose.....	12 c/	6,650 c/	71,863 c/	6,791 c/	75,001
3351211332	Pendant.....	6 c/	646 c/	6,065 c/	629 c/	6,343
3351211334	Recessed IC (direct contact with ceiling insulation) 4/.....	3	(D) (D)	(D)	(D) (D)	(D)
3351211336	Recessed non-IC (3-inch minimum clearance from ceiling insulation) 4/.....	2	496 (D)	11,047	509 r/	13,904
3351211338	Wall or bracket.....	18 a/	388 a/	9,334 a/r/	505 b/	13,602
3351211341	Components and renewal parts for residential type, sold separately.....	28	(X) a/	13,991	(X) a/	15,831
3351221	Electric lighting fixtures, commercial, and institutional type (except portable and spotlight).....	168	(X) a/	3,239,140	(X) a/	3,506,671
	Incandescent fixtures:					
	Utilitarian and ornamental types (primarily for public buildings, banks, stores, office buildings, schools, auditoriums, churches, theaters, etc):					
3351221102	Surface or pendant.....	52 b/	838 c/	66,605 b/	1,132 b/	82,275
	Recessed:					
3351221104	IC (direct contact with ceiling insulation).....	9 b/	5,727 c/	68,694 b/	8,270 b/	86,114
3351221106	Non-IC (3-inch minimum clearance from ceiling insulation).....	17 c/	8,591 c/	152,498 c/	12,423 b/	171,403
	Track lighting:					
3351221108	Single circuit track lengths and accessories.....	10	(X) b/	88,291	(X) b/r/	89,240
3351221111	Multiple circuit track lengths and accessories.....	6	(X) c/	5,489	(X) c/	6,374
3351221112	Line voltage heads.....	7	(S) b/	11,742	(S) a/	28,263
3351221114	Low voltage heads.....	7	(S) c/	20,781	(S) c/	27,489

Continued

Table 2. Quantity and Value of Shipments of Electric Lighting Fixtures: 2001 and 2000
 [Quantity in thousands of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2001		2000	
			Quantity	Value	Quantity	Value
3351221116	Track lengths and heads sold together (kits).....	4 b/	139 c/	2,235 b/	170 a/	7,022
3351221118	Specialized custom lighting fixtures, fixtures, chandeliers, church lighting, etc.	29	(X) a/	83,464	(X) a/	85,897
3351221121	Other incandescent fixtures, such as interior display and PAR lampholders.....	17	(X) c/	15,730	(X) c/r/	16,429
High intensity discharge types:						
3351221222	Surface or pendant 5/.....	35	(D)	(D)	(D)	(D)
3351221224	Indirect lighting 5.....	14 c/	289 c/	66,363 a/	274 a/	64,954
Recessed non-IC (3-inch minimum clearance from ceiling insulation):						
3351221226	Open reflector.....	19 a/	509 a/	27,993	758 a/	32,369
3351221228	Enclosed.....	17 a/	203 a/	15,110 a/	226 a/	14,249
Recessed IC (direct contact with ceiling insulation):						
3351221231	Open reflector 6/.....	4	(D)	(D)	(D)	(D)
3351221232	Enclosed 6/.....	6 c/	33 c/	4,569 c/	27 c/	3,946
Fluorescent:						
Recessed troffers, air handling, including heat extraction versions:						
Lensed:						
3351221333	2 feet X 4 feet, 4 lamp.....	12	161	8,526	173	9,101
3351221334	2 feet X 4 feet, 3 lamp.....	8	122	6,255	143	7,102
3351221335	2 feet X 4 feet, 2 lamp.....	9	178	9,374	192	9,913
3351221336	All other lensed, air handling.....	13	135	10,323	134	10,082
Metal louvered:						
3351221337	2 feet X 4 feet, 4 lamp.....	9	116	7,331	146	8,981
3351221338	2 feet X 4 feet, 3 lamp.....	10	552	30,610	721	40,905
3351221339	2 feet X 4 feet, 2 lamp.....	9	153	9,260	187	11,776
3351221340	All other metal louvered, air handling.....	12	2,098	115,871	2,245	126,489
Nonmetal louvered:						
3351221341	2 feet X 4 feet, 4 lamp 7/.....	1	(D)	(D)	(D)	(D)
3351221342	2 feet X 4 feet, 3 lamp 7/.....	1	(D)	(D)	(D)	(D)
3351221343	2 feet X 4 feet, 2 lamp 7/.....	2	(D)	(D)	(D)	(D)
3351221344	All other nonmetal louvered, air handling 7/.....	4 a/	73 b/	7,065	105	8,872
Recessed troffers, nonair handling, including heat extraction versions:						
Lensed:						
3351221401	2 feet X 4 feet, 4 lamp.....	26	4,241	158,985	4,750	185,067
3351221402	2 feet X 4 feet, 3 lamp.....	20	1,700	76,167	1,963	87,300
3351221403	2 feet X 4 feet, 2 lamp.....	19	743	32,119	929	40,212
3351221404	All other lensed, nonair handling.....	23	4,456	180,203	4,665	197,292
Metal louvered:						
3351221405	2 feet X 4 feet, 4 lamp.....	13	393	24,453	470	28,710
3351221406	2 feet X 4 feet, 3 lamp.....	12	1,276	74,214	1,681	97,089
3351221407	2 feet X 4 feet, 2 lamp.....	11	141	8,753	195	11,636
3351221408	All other metal louvered, nonair handling.....	16 a/	876	48,472	1,074 a/	58,988
Nonmetal louvered:						
3351221409	2 feet X 4 feet, 4 lamp.....	7 a/	29	1,244 a/	35 b/	1,476
3351221411	2 feet X 4 feet, 3 lamp.....	6 c/	18	982 c/	22 c/	1,197
3351221412	2 feet X 4 feet, 2 lamp.....	6 b/	6 a/	330 b/	8 b/	434
3351221413	All other non-metal louvered, nonair handling.....	12	264	24,430 a/	240 a/	21,890
3351221546	Striplights (surface).....	47 a/	11,260	258,816	11,634	271,351
3351221548	Striplights (recessed).....	11	279	8,852	248	8,100
3351221751	Ceiling systems, including luminous ceilings.....	12	(X) a/	36,251	(X) a/r/	42,458

Continued

Table 2. Quantity and Value of Shipments of Electric Lighting Fixtures: 2001 and 2000
 [Quantity in thousands of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2001		2000		
			Quantity	Value	Quantity	Value	
Plastic wraparounds:							
3351221601	4 foot, 2 lamp.....	28	2,475 a/	71,487	2,489	73,593	
3351221602	4 foot, 4 lamp.....	23	920	31,937	1,012	35,525	
3351221603	All other plastic commercial and institutional wraparounds.....	25 a/	2,688 b/	85,321 a/	2,441 b/	81,430	
3351221754	Wall mounted fixtures.....	52 b/	991 b/	81,055 b/	1,016 b/r/	77,969	
3351221756	Under cabinet mount task light.....	38 b/	2,707 a/	82,868 a/	3,107 a/	100,998	
Surface and pendant, all other:							
3351221758	Lensed.....	45 c/	5,242 b/	164,728 c/	5,187 b/	162,870	
3351221761	Louvered.....	29 b/	341 c/	59,965	364	45,032	
Compact fluorescent downlights:							
3351221762	Recessed IC (direct contact with ceiling insulation).....	10	1,837 b/	53,396	3,244 a/	72,391	
3351221764	Recessed non-IC (three inch minimum clearance from ceiling insulation).....	18 b/	1,664 a/	119,052 a/	2,076 r/	144,662	
Specific function lighting, all sources (incandescent, HID and fluorescent):							
3351221766	Enclosed and gasketed (clean room fixtures).....	33 a/	738 a/	66,174 b/	723 b/	60,922	
3351221768	Indirect lighting, furniture mount 8/.....	8	(D)	(D)	(D)	(D)	
3351221771	Indirect lighting, pendant mount 8/.....	18 b/	994 b/	88,043	1,170	85,378	
3351221772	Indoor signs, including electro-luminescence (exit, directional, etc.).....	26	2,073	133,650 a/	2,133 a/	132,693	
3351221774	Indoor emergency lighting (automatic self-powered).....	15	2,135 a/	97,221	2,058	96,166	
3351221776	Vandal resistant (specialty products designed for this application).....	24 a/	421 b/	36,743 c/	472 b/r/	38,241	
3351221778	All other.....	44	(X) b/	194,101	(X) c/	191,135	
3351221881	Components and renewal parts for commercial and institutional type, sold separately.....	42	(X) a/	104,949	(X) a/r/	105,221	
3351222	Electric lighting fixtures, industrial type.....	65	(X)	628,128	(X) a/	718,261	
General lighting (except portable):							
3351222102	Incandescent.....	18 c/	537 a/	15,804 c/	552 b/r/	18,742	
3351222104	Fluorescent.....	30	2,850 a/	118,298	3,052 a/	133,284	
High intensity discharge types, including integrally mounted and remote ballasts:							
3351222106	Open reflector.....	19 a/	1,879	158,516	2,277	184,503	
3351222108	Enclosed	19	1,374	142,261	1,531	171,352	
3351222111	Parking garage lighting (fixtures designed specifically for this application).....	6 c/	247	16,819	360 r/	21,087	
Hazardous lighting - UL listed, class, division, group:							
3351222112	Incandescent, including portable.....	12	(X) a/	27,709	(X) a/r/	28,731	
3351222114	Fluorescent, including portable.....	15	(X)	21,988	(X) b/	20,637	
3351222116	High intensity discharge types, including integrally mounted and remote ballasts.....	14	(X)	86,920	(X) a/	85,198	
3351222218	Components and renewal parts for industrial type, sold separately.....	21	(X) a/	39,813	(X) a/	54,727	
335129	Outdoor lighting equipment, excluding lamps.....	99	(X) b/	1,923,255	(X) b/	1,957,364	
Street and highway lighting luminaries, including bridge and tunnel lighting:							
3351291002	Incandescent (filament and quartz iodine) 9/.....	4	(D)	(D)	(D)	(D)	

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 [Quantity in thousands of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2001		2000	
			Quantity	Value	Quantity	Value
	High intensity discharge types, including low pressure sodium and integrally mounted and remote ballasts:					
3351291004	Open 9/.....	4 a/	565 a/	19,503 a/	561 a/	20,083
3351291006	Enclosed.....	13 a/	1,229 b/	153,478 b/	1,376 b/	162,057
3351291008	Fluorescent 10/.....	2	(D)	(D)	(D)	(D)
3351291011	Special-purpose luminaries for highmast, sign lighting and expressway fixtures, excluding value of poles 10/.....	5 c/	105 b/	24,487 c/	107 b/	24,957
	Floodlighting, area, and site lighting luminaries:					
	General purpose floodlighting:					
3351291012	Incandescent filament.....	7 c/	216 c/	18,932 c/	163 c/	14,787
3351291014	Incandescent quartz iodine.....	12 c/	442 b/	9,198 c/	447 c/	9,161
3351291016	High intensity discharge types, general, including low pressure sodium and integrally mounted and remote ballasts.....	33 b/	1,326 b/	245,792 c/	1,390 b/	238,505
3351291018	Fluorescent.....	11 c/	545 a/	26,652 b/	423 a/	20,721
3351291021	HID sports lighting (fixtures designed specifically for this application).....	12	252	32,917 a/	252 a/	40,147
	HID area and site lighting:					
3351291022	Site lighting (under 20 foot mounting).....	26 c/	1,477 b/	145,725 c/	1,452 b/	139,396
3351291024	Bollards.....	19 b/	97 b/	29,644 b/r/	97 b/r/	28,862
3351291026	Post-top.....	14	142	26,170 b/	137 b/	26,177
3351291028	Large area lighting (20 to 60 foot foot mounting).....	26 b/	794 b/	238,421 b/	828 b/	254,461
3351291031	Wall packs (such as high intensity discharge, incandescent, and quartz).....	27 b/	1,331 b/	134,496 b/	1,396 b/	141,850
3351291032	Outdoor PAR lampholders.....	10 c/	629 b/	9,145 b/	676 b/	9,711
	Other floodlighting and area lighting equipment:					
3351291034	Spotlights, including indoor and stage excluding vehicular.....	7 c/	419 c/	117,550 c/	402 c/	111,349
3351291036	All other outdoor lighting equipment (such as underwater fountain and pool lighting).....	21	(X) a/	127,442	(X) b/	138,919
	Aviation ground lighting equipment (for fixe-based airports):					
3351291038	Runway approach lighting, including fixtures, regulators, insulating transformers, isolating lamp transformers, beacons, wind tees, and cones.....	5	(X)	7,678	(X)	5,087
3351291041	Runway (except runway approach), taxiway, and ramp light, including fixtures, regulators, and isolating lamp transformers.....	4	(X)	38,216	(X)	33,657
3351291042	Components and renewal parts for outdoor lighting equipment, sold separately.....	25	(X) a/	61,671	(X) a/	66,576
	Poles, standards, newels, brackets, and accessories:					
	For street and highway lighting, including traffic signal standards:					
3351291044	Steel and cast iron poles.....	9	(X) c/	138,934	(X) c/	125,842
3351291046	Aluminum poles	8	(X)	38,478	(X) r/	45,534
3351291048	Concrete poles 11/.....	2	(X)	(D)	(X)	(D)
3351291051	All other (fiberglass, wood, etc.) 11/.....	2	(X) c/	74,980	(X) c/	74,287

Continued

Table 2. Quantity and Value of Shipments of Electric Lighting Fixtures: 2001 and 2000
 [Quantity in thousands of units. Value in thousands of dollars]

Product code	Product description	No. of cos.	2001		2000	
			Quantity	Value	Quantity	Value
	For area lighting, sports and other off-street use:					
3351291052	Steel and cast iron poles (60 foot and over).....	7	(X) c/	18,041	(X) b/	24,232
3351291054	Steel and cast iron poles (under 60 foot).....	20	(X) c/	136,194	(X) c/	141,704
3351291056	Aluminum poles.....	20	(X) b/	49,511	(X) a/r	59,302
3351291058	All other (concrete, wood, etc.) 11/.....	5	(X)	(D)	(X)	(D)

D Data withheld to avoid disclosing data for individual companies. r/Revised by 5 percent or more from previously published data. S Data does not meet publication standards. X Not applicable.

1/Product code 3351211214 is combined with product codes 3351211206, 3351211208, 3351211211, and 3351211212 to avoid disclosing data for individual companies.

2/Product code 3351211216 is combined with product code 3351211218 to avoid disclosing data for individual companies.

3/Product code 3351211324 is combined with product codes 3351211321 and 3351211322 to avoid disclosing data for individual companies.

4/Product code 3351211334 is combined with product code 3351211336 to avoid disclosing data for individual companies.

5/Product code 33512211222 is combined with product code 3351221224 to avoid disclosing data for individual companies.

6/Product code 3351221231 is combined with product code 3351221232 to avoid disclosing data for individual companies.

7/Product code 3351221344 is combined with product codes 3351221341, 3351221342 and 3351221343, to avoid disclosing data for individual companies.

8/Product code 3351221768 is combined with product code 3351221771 to avoid disclosing data for individual companies.

9/Product code 3351291002 is combined with product code 3351291004 to avoid disclosing data for individual companies.

10/Product code 3351291008 is combined with product code 3351291011 to avoid disclosing data for individual companies.

11/Product code 3351291048 and 3351291058 are combined with product code 3351291051 to avoid disclosing data for individual companies.

Note: 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 it estimated. c/Over 50 percent of this item is estimated.

Table 3. Shipments, Exports, and Imports of Electric Lighting Fixtures: 2001
 [Millions of dollars]

Product description	Manufacturers' shipments f.o.b. plant value	Exports of domestic merchandise 1/		Imports for consumption 1/	
		Quantity	Value at port 2/	Quantity	Value in foreign country 3/
Electric lighting fixtures, residential type, (except portable), excluding components and renewal parts.....	983,924	1,708,734	48,814	97,680,421	844,368
Electric lighting fixtures, commercial, institutional and industrial types, excluding components and renewal parts.....	3,867,268	3,417,190	102,517	34,153,749	579,997
Other electric lighting fixtures.....	1,923,255	13,496,107	226,587	235,694,965	1,054,152

1/For comparison of North American Industry Classification System (NAICS)-based codes with Schedule B export codes and HTSUSA import codes, see Table 4.

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

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

Table 4. Comparison of the North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Exports Codes and HTSUSA Import Codes: 2001

Product code	Product description	Export code 1/	Import code 2/
3351211102, 104, 206, 208, 211, 121, 214, 216, 218, 221, 222, 224, 321, 322, 324, 328, 331, 332, 334, 336, 338, 341	Electric lighting fixtures, residential type (except portable).....	9405.10.1000	9405.10.4010 9405.10.6010 9405.10.8010
3351221102, 104, 106, 108, 111, 112, 114, 116, 118, 121, 222, 224, 226, 228, 231, 232, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 401, 402, 403, 404, 405, 406, 407, 408, 409, 411, 412, 413, 546, 548, 751, 601, 602, 603, 754, 756, 758, 761, 762, 764, 766, 768, 771, 772, 774, 776, 778, 881, 3351222102, 104, 106, 108, 111, 112, 114, 116, 118	Electric lighting fixtures, commercial, institutional and industrial type.....	9405.10.3000	9405.10.4020 9405.10.6020 9405.10.8020
3351291002, 004, 006, 008, 011, 012, 014, 016, 108, 021, 022, 024, 026, 028, 031, 032, 034, 036, 038, 041, 042, 044, 046, 048, 051, 052, 054, 056, 058	Other electric lighting fixtures.....	9405.40.0000 9405.92.0000 9405.99.0000	9405.40.4000 9405.40.6000 9405.40.8000 9405.92.0000 9405.99.2000 9405.99.4000

1/Source: 2001 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 (2001).

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 electric lighting fixtures have been collected by the Census Bureau since 1962. Historical data may be obtained from Current Industrial Reports available at your local Federal Depository Library.