

Fluorescent Lamp Ballasts: 2005

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Summary

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These data are also available on Internet through the U.S. Department of Commerce and STAT-USA by subscription. The Internet address is: www.stat-usa.gov/. Follow the prompts to register. Also, you may call 202-482-1986 or 1-800-STAT-USA, for further information.

SUMMARY OF FINDINGS. The value of manufactures' shipments of fluorescent lamp ballasts amounted to \$770 million in 2005, a decrease of 3.5 percent from shipments of

\$798 million in 2004. The quantity of fluorescent lamp ballasts shipped decreased to 83.5 million units in 2005, from 89.7 million units in 2004, a 7-percent decrease.

Magnetic type's share of the market fell to 27 percent of the quantity, and only 23 percent of the value of shipments. Electronic type's market share increased to 73 percent of the quantity and 77 percent of the value of shipments.

The value of shipments of electronic ballasts totaled \$595 million in 2005, compared to a level of \$579 million in 2004. Quantity of ballasts reached 61.3 million units, an increase of 3 percent compared to 59.2 million units 2004. This is the highest level of electronic type ballasts ever sold.

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 Lindsay Peters, 301-763-4821.

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 Fluorescent Lamp Ballasts: 1995 to 2005
[Quantity in thousands of ballasts. Value in thousands of dollars]

Year	Magnetic type							
	Total		Uncorrected power-factor type		Corrected power-factor type		Electronic type	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
2005.....	83,480	769,760	5,473	20,460	16,738	154,670	61,269	594,630
2004.....	89,729	797,819	(D)	(D)	(D)	(D)	59,239	579,388
2003.....	89,711	801,539	(D)	(D)	(D)	(D)	54,477	557,392
2002.....	94,497	836,364	(D)	(D)	(D)	(D)	53,820	573,106
2001.....	99,426	877,367	(D)	(D)	(D)	(D)	52,702	581,861
2000.....	104,771	898,524	17,908	58,719	37,540	284,289	49,323	555,516
1999.....	102,894	884,513	19,822	58,145	41,441	326,314	41,631	500,054
1998.....	103,724	914,265	21,298	62,207	42,584	339,230	39,842	512,828
1997.....	103,947	906,477	24,517	68,528	42,887	343,928	36,543	494,021
1996.....	97,355	909,178	24,172	67,884	42,841	389,877	30,342	451,417
1995.....	105,306	1,002,115	24,764	68,165	47,648	427,062	32,894	506,888

D Withheld to avoid disclosing data for individual companies.

Table 2. Shipments of Fluorescent Lamp Ballasts by Product: 2005
[Quantity in thousands of ballasts. Value in thousands of dollars]

Product code	Product description	Total		First quarter		Second quarter		Third quarter		Fourth quarter	
		Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
3353115	Fluorescent lamp ballasts.....	83,480	769,760	21,652	198,500	21,497	196,403	20,770	191,821	19,561	183,036
	Magnetic type.....	22,211	r/ 175,130	7,214	r/ 56,144	5,930	r/ 44,389	4,565	r/ 36,037	4,502	38,560
	Uncorrected power-factor type (less than 85 percent power factor).....	5,473	20,460	r/ 1,481	r/ 6,051	r/ 1,451	r/ 5,402	1,291	4,464	1,250	4,543
	Preheat start:										
3353115103	Single-ended compact lamps.....	1,341	3,909	r/ 389	r/ 1,161	r/ 344	r/ 1,012	311	879	297	857
3353115105	Linear and circline lamps up to 20 watt.....	2,512	6,777	650	r/ 1,995	683	r/ 1,815	620	1,497	559	1,470
3353115107	Linear and circline lamps 21 watts and over.....	(D)	2,230	(D)	671	(D)	533	(D)	515	(D)	511
3353115109	All other magnetic uncorrected power-factor type, including rapid start.....	(D)	7,544	(D) r/ 2,224	(D) r/ 2,224	(D) r/ 2,042	(D) r/ 2,042	(D) 1,573	(D) 1,573	(D) 1,705	(D) 1,705
	Corrected power-factor type (85 percent power factor or above).....	16,738	154,670	5,733	r/ 50,093	4,479	r/ 38,987	3,274	r/ 31,573	3,252	34,017
	Slimline and instant start:										
3353115111	Two-lamp 75W/96T12/IS and 57W/72T12/IS.....	(D)	(D)	(D)	(D)	(D)	(D)	634	7,110	650	7,591
3353115113	Other slimline and instant start.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Rapid start:										
3353115115	One-lamp 40W/48T12/RS.....	494	2,801	r/ 175	972	r/ 138	775	102	585	79	469
3353115117	Two-lamp 40W/48T12/RS.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	10,768	(D)	(D)
3353115119	Two-lamp 32W/48T8/RS.....	(D)	(D) r/ 31	r/ 261	r/ 36	r/ 297	28	249	(D)	(D)	(D)
	All other rapid start:										
3353115121	800 to 1000 mA 1/.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	11,947
3353115123	1500 mA 1/.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3353115125	Other rapid start 1/.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Preheat start:										
3353115127	Single-ended compact lamps.....	341	3,136	102	923	91	829	86	777	62	607
3353115129	Linear and circline lamps 1/.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3353115131	All other magnetic corrected power-factor type 1/.....	(NA)	(NA)	(D) r/ 15,183	(D) r/ 15,183	(D) r/ 11,678	(D) r/ 11,678	(D)	(D)	(D)	(D)
	Electronic type.....	61,269	594,630	14,438	142,356	15,567	152,014	16,205	155,784	15,059	144,476
	Uncorrected power-factor type (less than 90 percent power factor).....	(D)	4,531	r/ 108	r/ 1,008	r/ 174	r/ 1,345	(D)	926	155	1,252
3353115133	Single-ended compact lamps.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3353115135	All other electronic uncorrected power-factor type.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Corrected power-factor type (90 percent power factor or above).....	(D)	590,099	14,330	141,348	15,393	150,669	(D)	154,858	14,904	143,224
	Instant start:										
3353115137	One- and two-lamp 32W/48T8.....	22,302	169,102	5,363	41,315	5,896	44,851	5,775	43,725	5,268	39,211
3353115139	Three- and four-lamp 32W/48T8.....	20,614	190,382	5,078	47,176	5,332	49,508	5,454	50,524	4,750	43,174
3353115141	Two-lamp 59W/96T8.....	1,224	16,621	279	3,868	326	4,610	300	3,919	319	4,224
3353115143	Two-lamp 75W/96T12/IS 2/.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3353115144	Linear T5 3/.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3353115145	All other instant start 2/.....	(NA)	(NA)	283	3,538	271	3,386	(D)	(D)	211	2,649
	Rapid start:										
3353115147	All 32W/48T8.....	2,342	27,192	573	6,640	638	7,335	602	6,960	529	6,257
3353115149	All other T8, 4 foot and less.....	-	-	-	-	-	-	-	-	-	-
3353115151	Two-lamp 40W/48T12/RS 3/.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3353115153	800 mA 3/.....	(NA)	(NA)	137	2,470	146	2,566	(D)	(D)	68	1,665
3353115154	Compact fluorescent up to and including 26W.....	5,271	49,680	1,237	12,026	1,171	11,215	1,399	13,054	1,464	13,385
3353115156	Compact fluorescent 27W and over.....	1,072	13,933	256	3,377	266	3,423	292	3,792	258	3,341
3353115158	Linear T5, normal output 4/.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3353115160	Linear T5, high output.....	3,086	50,759	658	11,154	816	13,074	825	13,301	787	13,230
3353115162	Dimming, linear 4/.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3353115164	Dimming, compact fluorescent 4/.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3353115166	All other rapid start.....	293	6,049	74	1,500	72	1,540	77	1,553	70	1,456
3353115168	All other electronic corrected power-factor type 4/.....	(NA)	(NA) r/ 392	r/ 8,284	r/ 8,284	r/ 459	r/ 9,161	(D)	838	(D)	536

- Represents zero. D Withheld to avoid disclosing data for individual companies. mA Milliampere. NA Not available. r/Revised by 5 percent or more from previously published data.

1/For first and second quarters, product codes 3353115121, 3353115123, 3353115125, and 3353115129 are combined with product code 3353115131 to avoid disclosing data for individual companies.

2/For first and second quarters, product code 3353115143 is combined with product code 3353115145 to avoid disclosing data for individual companies.

3/For first and second quarters, product codes 3353115144 and 3353115151 are combined with 3353115153 to avoid disclosing data for individual companies.

4/For first and second quarters, product codes 3353115158, 3353115162, and 3353115164 are combined with product code 3353115168 to avoid disclosing data for individual companies.

Table 3. Shipments of Fluorescent Lamp Ballasts by Product: 2004
[Quantity in thousands of ballasts. Value in thousands of dollars]

Product code	Product description	Total		First quarter		Second quarter		Third quarter		Fourth quarter	
		Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
3353115	Fluorescent lamp ballasts.....	89,729	797,819	r/		22,174	191,533	23,974	207,777	21,981	196,876
	Magnetic type.....	30,490	218,431	r/		8,472	57,823	7,649	51,728	7,074	51,050
	Uncorrected power-factor type (less than 85 percent power factor).....	(D)	(D)			(D)	(D)	2,229	9,968	1,830	9,114
	Preheat start:	(D)	(D)			(D)	(D)	1,434	4,006	1,122	3,154
3353115103	Single-ended compact lamps.....	1,445	3,900	366	987	399	1,053	310	861	1,230	3,494
3353115105	Linear and circline lamps up to 20 watt.....	3,196	8,036	864	2,117	880	2,242	699	1,750	753	1,927
3353115107	Linear and circline lamps 21 watts and over.....	(D)	(D)	(D)	(D)	155	711	113	543	107	568
3353115109	All other magnetic uncorrected power-factor type, including rapid start.....	3,123	25,096	1,024	6,672	795	5,962	708	5,960	596	6,502
	Corrected power-factor type (85 percent power factor or above).....	(D)	(D)	(D)	(D)	5,420	41,760	5,244	41,936	5,469	47,834
	Slimline and instant start:	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3353115111	Two-lamp 75W/96T12/IS and 57W/72T12/IS.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3353115113	Other slimline and instant start.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Rapid start:	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3353115115	One-lamp 40W/48T12/RS.....	502	3,073	121	688	120	739	130	806	131	840
3353115117	Two-lamp 40W/48T12/RS.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3353115119	Two-lamp 32W/48T8/RS.....	200	1,870	50	373	52	424	42	391	56	682
	All other rapid start 1/.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3353115121	800 to 1000 mA 1/.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3353115123	1500 mA 1/.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3353115125	Other rapid start 1/.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Preheat start 1/.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3353115127	Single-ended compact lamps.....	474	3,713	131	984	138	1,013	101	833	104	883
3353115129	Linear and circline lamps 1/.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3353115131	All other magnetic corrected power-factor type 1/.....	(D)	66,103	(D)	17,574	(D)	14,981	(D)	15,184	(D)	18,364
	Electronic type.....	59,239	579,388	13,702	133,710	16,325	156,049	14,907	145,826	14,305	143,803
	Uncorrected power-factor type (less than 90 percent power factor).....	463	4,172	72	780	109	957	104	970	178	1,465
3353115133	Single-ended compact lamps.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3353115135	All other electronic uncorrected power-factor type.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Corrected power-factor type (90 percent power factor or above).....	58,776	575,216	13,630	132,930	16,216	155,092	14,803	144,856	14,127	142,338
	Instant start:										
3353115137	One- and two-lamp 32W/48T8.....	22,538	172,816	5,330	41,253	6,270	47,285	5,694	43,524	5,244	40,754
3353115139	Three- and four-lamp 32W/48T8.....	20,591	192,939	4,809	45,057	5,588	51,282	5,185	48,330	5,009	48,270
3353115141	Two-lamp 59W/96T8.....	1,214	15,885	315	4,109	333	4,372	301	3,880	265	3,524
3353115143	Two-lamp 75W/96T12/IS 2/.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3353115144	Linear T5 3/.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3353115145	All other instant start 2/.....	1,220	15,099	327	4,146	337	3,963	294	3,542	262	3,448
	Rapid start:										
3353115147	All 32W/48T8.....	2,397	27,442	552	6,432	768	8,680	559	6,253	518	6,077
3353115149	All other T8, 4 foot and less 3/.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3353115151	Two-lamp 40W/48T12/RS 3/.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3353115153	800 mA 3/.....	r/	556	9,092	r/	122	2,057	108	1,827	130	2,249
3353115154	Compact fluorescent up to and including 26W.....	4,713	44,878	1,069	10,380	1,272	11,832	1,157	10,888	1,215	11,778
3353115156	Compact fluorescent 27W and over.....	903	11,698	205	2,658	247	3,130	234	3,000	217	2,910
3353115158	Linear T5, normal output 4/ 5/.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3353115160	Linear T5, high output.....	2,898	46,117	512	7,721	788	12,415	815	12,905	783	13,076
3353115162	Dimming, linear 5/.....	(D)	(D)	168	4,784	167	4,415	208	5,485	(D)	(D)
3353115164	Dimming, compact fluorescent 4/ 5/.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3353115166	All other rapid start.....	276	5,455	76	1,389	77	1,607	56	1,137	67	1,322
3353115168	All other electronic corrected power-factor type 4/ 5/.....	(NA)	(NA)	145	2,944	261	4,284	170	3,663	r/	351
										r/	8,820

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

1/"All other rapid start" and product codes 3353115121, 3353115123, and 3353115125, and "Preheat start" and product code 3353115129 are combined with product code 3353115131 to avoid disclosing data for individual companies.

2/Product code 3353115143 is combined with 3353115145 to avoid disclosing data for individual companies.

3/Product codes 3353115144, 3353115149, and 3353115151 are combined with 3353115153 to avoid disclosing data for individual companies.

4/For first, second, and third quarters, product codes 3353115158 and 3353115164 are combined with product code 3353115168 to avoid disclosing data for individual companies.

5/For the fourth quarter, product codes 3353115158, 3353115162, and 3353115164 are combined with product code 3353115168 to avoid disclosing data for individual companies.

Table 4. Shipments of Fluorescent Lamp Ballasts by Distribution Channel: 2005 and 2004
[Quantity in thousands of ballasts. Value in thousands of dollars]

Product description	Total		First quarter		Second quarter		Third quarter		Fourth quarter	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
2005										
Fluorescent lamp ballasts.....	83,480	769,760	21,652	198,500	21,497	196,403	20,770	191,821	19,561	183,036
Shipments to original equipment manufacturers (OEM).....	60,387	499,372	15,568	126,722	15,795	129,634	14,865	123,860	14,159	119,156
Shipments to distribution.....	23,093	270,388	6,084	r/ 71,778	5,702	66,769	5,905	67,961	5,402	63,880
Magnetic type.....	22,211	175,130	7,214	r/ 56,144	5,930	r/ 44,389	4,565	r/ 36,037	4,502	38,560
Shipments to original equipment manufacturers (OEM).....	13,566	79,669	4,648	r/ 27,348	3,831	r/ 21,661	2,476	r/ 13,801	2,611	16,859
Shipments to distribution.....	8,645	95,461	2,566	r/ 28,796	2,099	r/ 22,728	2,089	r/ 22,236	1,891	21,701
Electronic type.....	61,269	594,630	14,438	142,356	15,567	152,014	16,205	155,784	15,059	144,476
Shipments to original equipment manufacturers (OEM).....	46,821	419,703	10,920	99,374	11,964	107,973	12,389	110,059	11,548	102,297
Shipments to distribution.....	14,448	174,927	3,518	42,982	3,603	44,041	3,816	45,725	3,511	42,179
2004										
Fluorescent lamp ballasts.....	89,729	797,819	r/ 22,174	191,533	23,974	207,777	21,981	196,876	21,600	201,633
Shipments to original equipment manufacturers (OEM).....	66,529	531,891	r/ 16,513	126,536	18,375	146,934	16,204	130,507	15,437	127,914
Shipments to distribution.....	23,200	265,928	r/ 5,661	64,997	5,599	60,843	5,777	66,369	6,163	73,719
Magnetic type..... r/	30,490	218,431	r/ 8,472	57,823	7,649	51,728	7,074	51,050	7,295	57,830
Shipments to original equipment manufacturers (OEM)..... r/	21,362	122,504	r/ 6,012	32,118	5,439	31,653	4,881	27,778	5,030	30,955
Shipments to distribution..... r/	9,128	95,927	r/ 2,460	25,705	2,210	20,075	2,193	23,272	2,265	26,875
Electronic type.....	59,239	579,388	13,702	133,710	16,325	156,049	14,907	145,826	14,305	143,803
Shipments to original equipment manufacturers (OEM).....	45,167	409,387	10,501	94,418	12,936	115,281	11,323	102,729	10,407	96,959
Shipments to distribution.....	14,072	170,001	3,201	39,292	3,389	40,768	3,584	43,097	3,898	46,844

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

Table 5. Shipments, Exports, and Imports of Fluorescent Lamp Ballasts: 1995 to 2005
[Quantity in thousands of ballasts. Value in thousands of dollars]

Product code	Product description	Manufacturers' shipments		Exports of domestic merchandise 1/		Imports for consumption 3/	
		Quantity	Value f.o.b. plant	Quantity 2/	Value at port 2/	Quantity 2/	Value 2/ 4/
3353115	Fluorescent lamp ballasts.....2005.....	83,480	769,760	10,268	88,020	110,834	768,943
	2004.....	89,729	797,819	12,213	81,641	106,402	741,551
	2003.....	89,711	801,539	19,584	141,815	105,574	711,073
	2002.....	94,497	836,364	20,619	170,923	116,176	679,508
	2001.....	99,426	877,367	23,540	185,934	101,777	608,955
	2000.....	104,771	898,524	20,531	164,223	125,698	634,799
	1999.....	102,894	884,513	17,277	157,642	102,454	617,711
	1998.....	103,724	914,265	14,265	138,415	95,495	601,293
	1997.....	103,947	906,477	22,982	128,119	98,010	588,552
	1996.....	97,355	909,178	17,955	92,191	81,844	504,702
	1995.....	105,306	1,002,115	10,400	72,610	73,707	502,564

1/Source: Census Bureau report EM 545, U.S. Exports. Schedule B export code is 8504.10.0000.

2/Exports/imports are overstated due to the inclusion of specialty transformers classified in product class 3353113.

3/Source: Census Bureau report IM 145, U.S. Imports for Consumption. HTSUSA import code 8504.10.0000.

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

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 fluorescent lamp ballasts have been collected by the Census Bureau since 1955. Historical data may be obtained from Current Industrial Reports (called Facts for Industry before 1959) available at your local Federal Depository Library.