

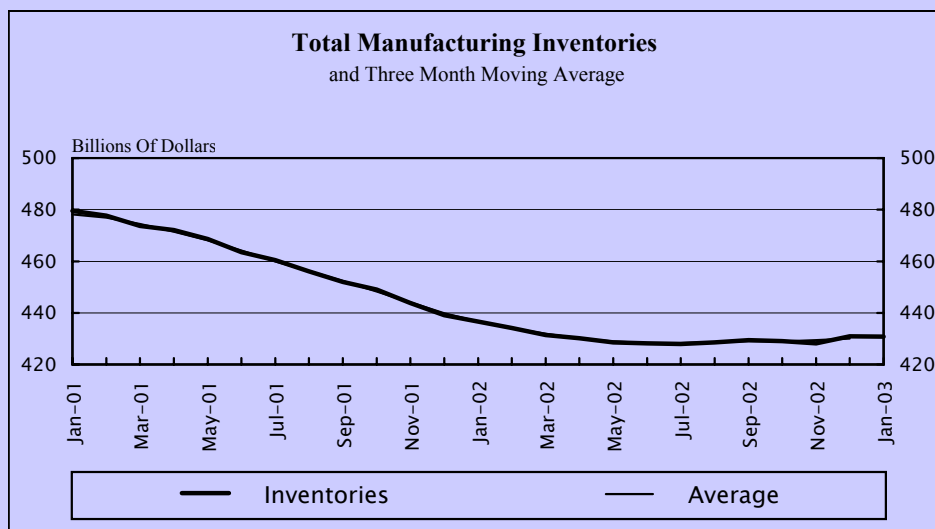
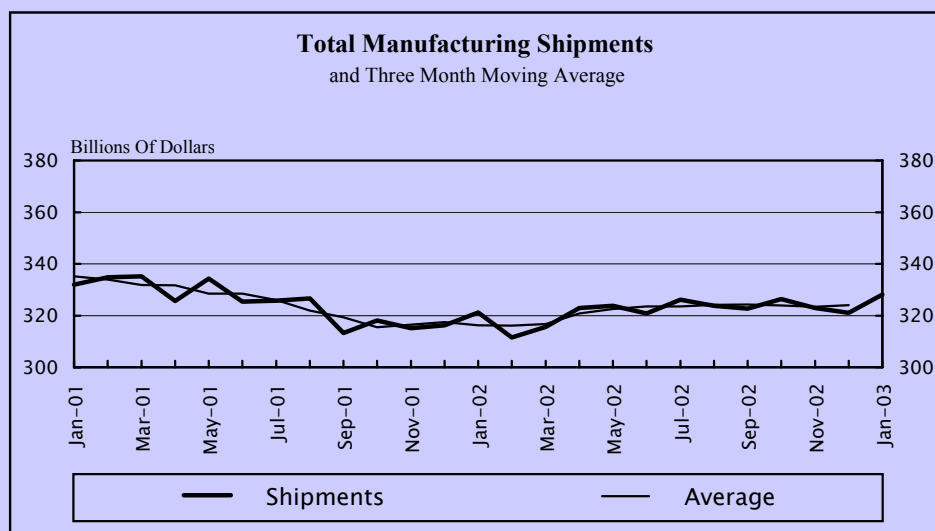
# Manufacturers' Shipments, Inventories, and Orders: January 2003

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## Current Industrial Reports



For data, call 301-763-4673. For inquiries, contact Dan Sansbury or Derrick Roy, Manufacturers' Shipments, Inventories and Orders Branch, Manufacturing and Construction Division (MCD), Washington, DC 20233-6900 or call 301-763-4832.

The advance report on durable goods for February is scheduled for March 26, 2003 at 8:30 a.m. and the full report on April 2, 2003 at 10:00 a.m.

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All figures in text are in seasonally adjusted current dollars and **exclude data for semiconductor manufacturing**.

## Summary

New orders for manufactured goods in January, at the highest level since May 2001, increased \$6.6 billion or 2.1 percent to \$327.1 billion, the Department of Commerce, Census Bureau reported today. This followed a 0.3 percent December increase.

Shipments, also at the highest level since May 2001, increased \$7.1 billion or 2.2 percent to \$328.1 billion. This followed a 0.6 percent December decrease.

Unfilled orders, down five consecutive months, decreased \$1.0 billion or 0.2 percent to \$476.4 billion, following a 0.1 percent December decrease. This was the lowest level since September 1996. The unfilled orders-to-shipments ratio was 3.92, down from 4.05 in December.

Inventories decreased \$0.1 billion to \$430.8 billion, following a 0.6 percent December increase. The inventories-to-shipments ratio was 1.31, down from 1.34 in December.

## New Orders

New orders for manufactured durable goods in January increased \$4.9 billion or 2.9 percent to \$174.0 billion, revised from the previously published 3.3 percent increase.

Transportation equipment had the largest increase, \$2.4 billion or 5.0 percent to \$51.2 billion, due to motor vehicle bodies, parts, and trailers, which increased by \$2.3 billion. Machinery increased \$0.9 billion or 4.4 percent to \$22.7 billion.

New orders for manufactured nondurable goods increased \$1.8 billion or 1.2 percent to \$153.1 billion.

## Shipments

Shipments of manufactured durable goods in January increased \$5.3 billion or 3.2 percent to \$175.1 billion, revised from the previously published 3.5 percent increase.

Transportation equipment had the largest increase, \$3.7 billion or 7.6 percent to \$52.0 billion, due to motor vehicle bodies, parts, and trailers, which increased by \$2.5 billion. Transportation equipment had the largest percent increase since May 2001. Computers and electronic products, with the largest percent increase since January 2000, increased \$1.2 billion or 4.5 percent to \$26.8 billion.

Shipments of manufactured nondurable goods increased \$1.8 billion or 1.2 percent to \$153.1 billion. Petroleum and coal products had the largest increase, \$1.0 billion or 5.0 percent to \$21.3 billion, due to petroleum refineries, which increased \$1.0 billion. Basic chemicals increased \$0.6 billion or 1.6 percent to \$36.6 billion.

## Unfilled Orders

Unfilled orders for manufactured durable goods in January, down five consecutive months, decreased \$1.0 billion or 0.2 percent to \$476.4 billion, unrevised from the previously published 0.2 percent decrease. This was the lowest level since September 1996.

Transportation equipment had the largest decrease, \$0.8 billion or 0.3 percent to \$247.3 billion. Fabricated metal products, at the lowest level since February 1997, decreased \$0.2 billion or 0.5 percent to \$37.6 billion.

## Inventories

Inventories of manufactured durable goods in January decreased \$0.5 billion or 0.2 percent to \$264.7 billion, revised from the previously published 0.1 percent decrease. This was the twenty-third decrease over the past twenty-four months.

Computers and electronic products, at the lowest level since July 1994, had the largest decrease, \$0.6 billion or 1.3 percent to \$41.7 billion. Machinery decreased \$0.2 billion or 0.5 percent to \$44.5 billion, led by turbines, generators, and other power transmission equipment, which decreased \$0.1 billion.

Inventories of manufactured nondurable goods increased \$0.4 billion or 0.2 percent to \$166.1 billion. Petroleum and coal products had the largest increase, \$0.4 billion or 2.8 percent to \$14.0 billion, due to petroleum refineries, which increased \$0.4 billion.

By stage of fabrication, January materials and supplies decreased 0.4 percent in durable goods and increased 1.9 percent in nondurable goods. Work in process increased slightly in durable goods and 0.3 percent in nondurable goods. Finished goods decreased 0.2 percent in durable goods and 0.9 percent in nondurable goods.

Effective with this release there are some minor changes to the publication. Year-to-date comparisons in the text are based on the sum of data that has not been seasonally adjusted. On tables 1, 2, and 5 the percent change column that compared same month current year over prior year has been removed. A new column now shows percent change of year-to-date data for shipments and new orders. Table 5 still shows the same month year over year for unfilled orders and inventories.

**SEE BACK PAGE FOR SURVEY DESCRIPTION**

**Our internet address is: <http://www.census.gov/m3>**

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Table 1. Value of Manufacturers' Shipments for Industry Groups

[Millions of Dollars]

Industry	Seasonally Adjusted						Not Seasonally Adjusted <sup>1</sup>						
	Monthly			Percent Change			Monthly			Year to date		Percent Change 2003/2002	
	Jan 2003 <sup>p</sup>	Dec 2002 <sup>r</sup>	Nov 2002	Dec - Jan.	Nov - Dec.	Oct - Nov.	Jan 2003 <sup>p</sup>	Dec 2002 <sup>r</sup>	Nov 2002	Jan 2002	2003 <sup>p</sup>		2002
All manufacturing industries <sup>2</sup>	328,144	321,016	322,863	2.2	-0.6	-1.1	298,758	313,437	318,953	288,999	298,758	288,999	3.4
Excluding transportation <sup>2</sup>	276,186	272,712	271,595	1.3	0.4	-0.4	251,491	267,699	267,464	241,938	251,491	241,938	3.9
Excluding defense <sup>2</sup>	319,560	313,460	314,480	1.9	-0.3	-1.3	291,716	304,530	310,235	282,707	291,716	282,707	3.2
With unfilled orders <sup>2</sup>	121,524	117,822	121,356	3.1	-2.9	-1.1	107,189	119,290	119,307	106,441	107,189	106,441	0.7
Durable goods industries <sup>2</sup>	175,058	169,712	173,331	3.2	-2.1	-1.7	155,693	167,055	170,437	152,973	155,693	152,973	1.8
Wood products.....	7,320	7,434	7,506	-1.5	-1.0	2.4	6,280	6,619	7,107	6,344	6,280	6,344	-1.0
Nonmetallic mineral products.....	8,698	8,526	8,399	2.0	1.5	-0.2	7,768	7,159	8,043	6,702	7,768	6,702	15.9
Primary metals.....	11,406	11,181	11,158	2.0	0.2	-2.0	11,056	9,604	10,611	10,544	11,056	10,544	4.9
Iron and steel mills.....	5,323	5,340	5,306	-0.3	0.6	-0.7	5,157	4,597	4,926	4,755	5,157	4,755	8.5
Aluminum and nonferrous metals.....	4,784	4,601	4,592	4.0	0.2	-2.9	4,653	3,977	4,466	4,523	4,653	4,523	2.9
Ferrous metal foundries.....	1,299	1,240	1,260	4.8	-1.6	-3.7	1,246	1,030	1,219	1,266	1,246	1,266	-1.6
Fabricated metal products.....	20,879	20,968	21,059	-0.4	-0.4	-1.3	19,108	19,150	20,496	19,245	19,108	19,245	-0.7
Machinery.....	22,519	22,243	22,689	1.2	-2.0	-0.4	19,502	22,154	21,345	19,477	19,502	19,477	0.1
Farm machinery.....	1,528	1,584	1,587	-3.5	-0.2	0.3	1,373	1,278	1,174	1,270	1,373	1,270	8.1
Construction machinery.....	1,601	1,775	1,726	-9.8	2.8	-1.5	1,339	1,654	1,467	1,351	1,339	1,351	-0.9
Mining, oil field, and gas field machinery.....	777	764	695	1.7	9.9	0.0	711	864	653	714	711	714	-0.4
Industrial machinery.....	3,131	2,960	3,219	5.8	-8.0	0.6	2,887	3,467	2,928	2,615	2,887	2,615	10.4
Photographic equipment.....	1,451	1,504	1,492	-3.5	0.8	2.1	1,203	1,580	1,525	1,132	1,203	1,132	6.3
Ventilation, heating, air-conditioning, and refrigeration equipment.....	2,522	2,574	2,547	-2.0	1.1	4.1	2,109	2,417	2,371	2,213	2,109	2,213	-4.7
Metalworking machinery.....	1,994	1,936	2,273	3.0	-14.8	7.5	1,507	1,917	2,579	1,581	1,507	1,581	-4.7
Turbines, generators, and other power transmission equipment.....	2,723	2,149	2,339	26.7	-8.1	-15.7	2,255	2,264	2,218	2,499	2,255	2,499	-9.8
Material handling equipment.....	1,383	1,430	1,396	-3.3	2.4	1.0	1,356	1,366	1,269	1,366	1,356	1,366	-0.7
Computers and electronic products <sup>2</sup>	26,843	25,692	26,085	4.5	-1.5	-1.0	21,929	31,193	26,093	21,838	21,929	21,838	0.4
Computers.....	4,991	4,025	3,930	24.0	2.4	-10.3	4,218	4,930	3,570	3,311	4,218	3,311	27.4
Computer storage devices.....	1,144	1,155	1,208	-1.0	-4.4	10.6	764	1,781	1,114	824	764	824	-7.3
Other peripheral equipment.....	1,606	1,243	1,537	29.2	-19.1	-5.9	1,203	1,810	1,586	1,093	1,203	1,093	10.1
Nondefense communications equipment.....	5,330	4,863	5,169	9.6	-5.9	6.9	4,085	6,800	5,357	4,222	4,085	4,222	-3.2
Defense communications equipment.....	347	291	342	19.2	-14.9	4.3	318	313	327	296	318	296	7.4
Audio and video equipment.....	709	775	768	-8.5	0.9	9.1	605	862	953	644	605	644	-6.1
Semiconductors <sup>3</sup>	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electronic components.....	3,973	4,130	4,156	-3.8	-0.6	-0.2	3,423	4,173	4,308	3,729	3,423	3,729	-8.2
Nondefense search and navigation equipment.....	772	751	714	2.8	5.2	-11.9	677	811	714	673	677	673	0.6
Defense search and navigation equipment.....	2,090	2,049	2,054	2.0	-0.2	0.2	1,799	2,458	2,096	1,582	1,799	1,582	13.7
Electromedical, measuring, and control instruments.....	5,415	5,826	5,594	-7.1	4.1	-2.4	4,416	6,690	5,352	4,784	4,416	4,784	-7.7
Electrical equipment, appliances, and components.....	8,989	8,952	9,104	0.4	-1.7	1.0	7,698	9,120	8,958	7,666	7,698	7,666	0.4
Electric lighting equipment.....	1,150	1,096	1,073	4.9	2.1	-1.9	984	1,257	1,089	920	984	920	7.0
Household appliances.....	2,020	2,138	2,159	-5.5	-1.0	2.8	1,678	2,207	2,128	1,707	1,678	1,707	-1.7
Electrical equipment.....	2,604	2,528	2,656	3.0	-4.8	1.5	2,157	2,670	2,512	2,078	2,157	2,078	3.8
Batteries.....	484	467	494	3.6	-5.5	2.1	386	483	625	436	386	436	-11.5
Transportation equipment.....	51,958	48,304	51,268	7.6	-5.8	-4.5	47,267	45,738	51,489	47,061	47,267	47,061	0.4
Automobiles.....	8,086	7,601	7,681	6.4	-1.0	-4.0	7,760	6,356	7,724	7,997	7,760	7,997	-3.0
Light trucks and utility vehicles.....	10,692	9,833	9,727	8.7	1.1	-10.7	10,278	8,243	9,659	9,951	10,278	9,951	3.3
Heavy duty trucks.....	1,092	1,034	953	5.6	8.5	-27.6	973	899	896	868	973	868	12.1
Motor vehicle bodies, parts, and trailers.....	18,517	16,043	18,179	15.4	-11.7	-4.8	17,648	13,760	17,979	16,714	17,648	16,714	5.6
Nondefense aircraft and parts.....	4,770	5,924	6,089	-19.5	-2.7	-3.8	3,620	7,547	6,271	5,191	3,620	5,191	-30.3
Defense aircraft and parts.....	3,247	2,553	3,208	27.2	-20.4	10.1	2,565	3,235	3,489	2,084	2,565	2,084	23.1
Ships and boats.....	2,100	2,161	2,234	-2.8	-3.3	12.6	1,633	2,125	2,185	1,358	1,633	1,358	20.3
Furniture and related products.....	5,675	5,708	5,500	-0.6	3.8	-0.6	5,336	5,435	5,455	5,344	5,336	5,344	-0.1
Miscellaneous durable goods.....	10,771	10,704	10,563	0.6	1.3	1.4	9,749	10,883	10,840	8,752	9,749	8,752	11.4
Nondurable goods industries.....	153,086	151,304	149,532	1.2	1.2	-0.4	143,065	146,382	148,516	136,026	143,065	136,026	5.2
Food products.....	38,046	38,126	37,759	-0.2	1.0	0.0	36,082	38,449	38,999	36,145	36,082	36,145	-0.2
Grain and oilseed milling.....	4,080	4,092	4,061	-0.3	0.8	-0.7	4,015	4,003	4,181	4,036	4,015	4,036	-0.5
Dairy products.....	5,230	5,265	5,045	-0.7	4.4	-2.3	4,970	5,243	5,192	5,258	4,970	5,258	-5.5
Meat, poultry, and seafood products.....	11,225	10,906	10,828	2.9	0.7	0.6	10,583	10,769	11,175	10,741	10,583	10,741	-1.5
Beverage and tobacco products.....	8,638	8,594	8,729	0.5	-1.5	-2.1	7,753	8,212	8,542	8,672	7,753	8,672	-10.6
Beverages.....	5,891	5,944	5,756	-0.9	3.3	-0.1	5,006	5,562	5,569	4,744	5,006	4,744	5.5
Tobacco.....	2,747	2,650	2,973	3.7	-10.9	-5.7	2,747	2,650	2,973	3,928	2,747	3,928	-30.1
Textile mills.....	3,555	3,333	3,592	6.7	-7.2	2.0	3,121	3,042	3,482	3,012	3,121	3,012	3.6
Textile products.....	3,119	3,135	3,183	-0.5	-1.5	2.3	2,570	2,768	3,043	2,450	2,570	2,450	4.9
Apparel.....	4,786	4,796	4,880	-0.2	-1.7	6.2	4,242	3,922	4,890	4,191	4,242	4,191	1.2
Leather and allied products.....	721	632	728	14.1	-13.2	1.1	618	764	825	524	618	524	17.9
Paper products.....	13,095	13,069	12,705	0.2	2.9	-2.2	12,752	12,712	12,434	12,040	12,752	12,040	5.9
Pulp, paper, and paperboard mills.....	5,825	5,796	5,659	0.5	2.4	-4.7	5,704	5,617	5,553	5,598	5,704	5,598	1.9
Paperboard containers.....	3,703	3,714	3,674	-0.3	1.1	-3.1	3,631	3,469	3,526	3,525	3,631	3,525	3.0
Printing.....	7,991	8,079	8,040	-1.1	0.5	-1.0	7,390	8,268	8,526	7,404	7,390	7,404	-0.2
Petroleum and coal products.....	21,283	20,273	18,786	5.0	7.9	-3.1	19,660	19,249	18,786	14,906	19,660	14,906	31.9
Petroleum refineries.....	19,667	18,710	17,259	5.1	8.4	-3.3	18,540	18,094	17,372	13,906	18,540	13,906	33.3
Basic chemicals.....	36,596	36,016	36,019	1.6	0.0	0.4	34,565	35,438	34,696	32,904	34,565	32,904	5.0
Pesticides, fertilizers, and other agricultural chemicals.....	1,628	1,732	1,681	-6.0	3.0	4.4	1,437	1,394	1,147	1,414	1,437	1,414	1.6
Pharmaceuticals and medicines.....	8,364	8,463	8,650	-1.2	-2.2	-2.6	8,266	9,232	8,748	9,261	8,266	9,261	-10.7
Paints, coatings, and adhesives.....	2,399	2,429	2,398	-1.2	1.3	-1.7	2,183	2,117	2,153	2,155	2,183	2,155	1.3
Plastics and rubber products.....	15,256	15,251	15,111	0.0	0.9	0.1	14,312	13,558	14,293	13,778	14,312	13,778	3.9

<sup>p</sup> Preliminary      <sup>r</sup> Revised      NA Not available.<sup>1</sup> Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations.<sup>2</sup> See footnote at end of Table 2.<sup>3</sup> See footnote at end of Table 2.

See note at end of Table 2 relating to survey error and revision.

Table 2. Value of Manufacturers' New Orders for Industry Groups

[Millions of Dollars]

Industry	Seasonally Adjusted						Not Seasonally Adjusted <sup>1</sup>						
	Monthly			Percent Change			Monthly				Year to date		Percent Change 2003/2002
	Jan 2003 <sup>p</sup>	Dec 2002 <sup>r</sup>	Nov 2002	Dec - Jan.	Nov - Dec.	Oct - Nov.	Jan 2003 <sup>p</sup>	Dec 2002 <sup>r</sup>	Nov 2002	Jan 2002	2003 <sup>p</sup>	2002	
All manufacturing industries <sup>2</sup> .....	327,114	320,465	319,427	2.1	0.3	-0.8	304,478	316,603	314,775	290,267	304,478	290,267	4.9
Excluding transportation <sup>2</sup> .....	275,928	271,725	268,914	1.5	1.0	-1.1	255,450	266,951	264,682	243,380	255,450	243,380	5.0
Excluding defense <sup>2</sup> .....	319,368	312,516	312,113	2.2	0.1	-1.4	296,480	302,964	307,706	283,738	296,480	283,738	4.5
With unfilled orders <sup>2</sup> .....	120,494	117,271	117,920	2.7	-0.6	-0.4	112,909	122,456	115,129	107,709	112,909	107,709	4.8
Durable goods industries <sup>2</sup> .....	174,028	169,161	169,895	2.9	-0.4	-1.2	161,413	170,221	166,259	154,241	161,413	154,241	4.6
Primary metals.....	11,324	10,885	10,612	4.0	2.6	-5.3	11,577	9,585	9,950	10,890	11,577	10,890	6.3
Iron and steel mills.....	5,131	5,034	4,936	1.9	2.0	-5.2	5,293	4,486	4,462	5,002	5,293	5,002	5.8
Aluminum and nonferrous metals.....	4,898	4,655	4,420	5.2	5.3	-5.6	4,940	4,079	4,272	4,519	4,940	4,519	9.3
Ferrous metal foundries.....	1,295	1,196	1,256	8.3	-4.8	-5.1	1,344	1,020	1,216	1,369	1,344	1,369	-1.8
Fabricated metal products.....	20,683	20,401	20,618	1.4	-1.1	-3.9	19,262	18,303	19,963	19,089	19,262	19,089	0.9
Machinery.....	22,652	21,705	21,957	4.4	-1.1	-2.5	20,742	21,071	20,567	19,751	20,742	19,751	5.0
Construction machinery.....	1,570	1,783	1,692	-11.9	5.4	-5.2	1,431	1,764	1,487	1,529	1,431	1,529	-6.4
Mining, oil field, and gas field machinery.....	766	642	686	19.3	-6.4	-3.8	700	742	644	758	700	758	-7.7
Industrial machinery.....	3,997	3,059	2,996	30.7	2.1	-8.5	4,156	3,167	2,693	2,841	4,156	2,841	46.3
Photographic equipment.....	1,420	1,552	1,517	-8.5	2.3	1.7	1,223	1,583	1,548	1,154	1,223	1,154	6.0
Ventilation, heating, air-conditioning, and refrigeration equipment.....	2,417	2,529	2,499	-4.4	1.2	-4.0	2,207	2,310	2,305	2,510	2,207	2,510	-12.1
Metalworking machinery.....	1,964	1,949	2,289	0.8	-14.9	3.7	1,561	1,806	2,593	1,625	1,561	1,625	-3.9
Turbines, generators, and other power transmission equipment.....	2,459	1,829	1,877	34.4	-2.6	-8.1	2,069	1,915	1,770	1,994	2,069	1,994	3.8
Material handling equipment.....	1,175	1,354	1,378	-13.2	-1.7	1.9	1,133	1,422	1,211	1,265	1,133	1,265	-10.4
Computers and electronic products <sup>2</sup> .....	26,833	26,242	25,279	2.3	3.8	-0.9	23,660	32,857	25,439	22,610	23,660	22,610	4.6
Computers.....	4,757	4,964	3,947	-4.2	25.8	-10.6	3,947	5,582	3,954	3,256	3,947	3,256	21.2
Nondefense communications equipment.....	5,507	4,054	4,772	35.8	-15.0	-2.1	5,113	6,210	5,210	4,849	5,113	4,849	5.4
Defense communications equipment.....	376	329	261	14.3	26.1	-38.9	347	351	246	285	347	285	21.8
Semiconductors <sup>3</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electronic components.....	3,903	4,168	3,928	-6.4	6.1	-6.0	3,803	4,157	3,779	4,017	3,803	4,017	-5.3
Nondefense search and navigation equipment.....	794	765	728	3.8	5.1	-20.9	757	809	727	652	757	652	16.1
Defense search and navigation equipment.....	2,213	2,367	2,047	-6.5	15.6	174.4	2,091	3,923	1,975	1,364	2,091	1,364	53.3
Electromedical, measuring, and control instruments.....	5,358	5,838	5,470	-8.2	6.7	-7.4	4,609	6,807	5,179	4,946	4,609	4,946	-6.8
Electrical equipment, appliances, and components.....	8,886	8,889	8,880	0.0	0.1	-0.9	7,864	9,004	8,734	7,522	7,864	7,522	4.5
Electric lighting equipment.....	1,199	1,047	1,051	14.5	-0.4	-2.1	1,066	1,216	1,017	920	1,066	920	15.9
Household appliances.....	1,968	2,128	1,994	-7.5	6.7	-6.6	1,690	2,260	2,077	1,674	1,690	1,674	1.0
Electrical equipment.....	2,612	2,550	2,572	2.4	-0.9	4.3	2,269	2,576	2,416	1,954	2,269	1,954	16.1
Transportation equipment.....	51,186	48,740	50,513	5.0	-3.5	0.7	49,028	49,652	50,093	46,887	49,028	46,887	4.6
Motor vehicle bodies, parts, and trailers.....	18,422	16,074	18,353	14.6	-12.4	-2.6	18,057	14,220	18,298	17,134	18,057	17,134	5.4
Nondefense aircraft and parts.....	5,488	6,839	5,636	-19.8	21.3	21.4	4,742	8,319	5,498	3,934	4,742	3,934	20.5
Defense aircraft and parts.....	2,495	2,682	2,922	-7.0	-8.2	11.3	2,911	4,691	2,729	3,472	2,911	3,472	-16.2
Ships and boats.....	1,942	1,787	1,736	8.7	2.9	-3.8	1,732	2,340	1,756	1,136	1,732	1,136	52.5
Furniture and related products.....	5,632	5,616	5,519	0.3	1.8	0.4	5,440	5,069	5,474	5,476	5,440	5,476	-0.7
Nondurable goods industries.....	153,086	151,304	149,532	1.2	1.2	-0.4	143,065	146,382	148,516	136,026	143,065	136,026	5.2

<sup>p</sup> Preliminary      <sup>r</sup> Revised      NA Not available.<sup>1</sup> Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations.<sup>2</sup> Aggregate estimates and percent changes exclude semiconductor industry data. Due to the number of large semiconductor manufacturers choosing not to participate in this voluntary monthly survey, the Census Bureau cannot currently produce monthly estimates of semiconductor shipments, orders, or inventories.<sup>3</sup> Due to the number of large semiconductor manufacturers choosing not to participate in this voluntary monthly survey, the Census Bureau cannot currently produce monthly estimates of semiconductor shipments, orders, or inventories.

Note: Estimates of manufacturers' shipments, inventories and orders are subject to survey error and revision. One major component of survey error is nonsampling error, which includes errors of coverage, response, and nonreporting. Since the survey panel is not a probability sample, estimates of sampling error cannot be calculated. Further details on survey design, methodology, and data limitations are contained in our most recent annual benchmark publication, Current Industrial Reports: M3-1(01), "Manufacturers' Shipments, Inventories, and Orders: 1992-2001."

**Table 3. Value of Manufacturers' Unfilled Orders for Industry Groups****[Millions of Dollars]**

Industry	Seasonally Adjusted						Not Seasonally Adjusted				
	Monthly			Percent Change			Monthly				Percent Change Jan 03/02
	Jan 2003 <sup>p</sup>	Dec 2002 <sup>r</sup>	Nov 2002	Dec - Jan.	Nov - Dec.	Oct - Nov.	Jan 2003 <sup>p</sup>	Dec 2002 <sup>r</sup>	Nov 2002	Jan 2002	
All manufacturing industries <sup>1</sup> .....	476,388	477,418	477,969	-0.2	-0.1	-0.7	478,125	472,405	469,239	503,226	-5.0
Excluding transportation <sup>1</sup> .....	229,125	229,383	230,370	-0.1	-0.4	-1.2	229,900	225,941	226,689	249,769	-8.0
Excluding defense <sup>1</sup> .....	333,359	333,551	334,495	-0.1	-0.3	-0.7	333,388	328,624	330,190	362,291	-8.0
Durable goods industries <sup>1</sup> .....	476,388	477,418	477,969	-0.2	-0.1	-0.7	478,125	472,405	469,239	503,226	-5.0
Primary metals.....	14,849	14,931	15,227	-0.5	-1.9	-3.5	14,826	14,305	14,324	16,449	-9.9
Iron and steel mills.....	8,067	8,259	8,565	-2.3	-3.6	-4.1	7,926	7,790	7,901	8,152	-2.8
Aluminum and nonferrous metals.....	4,595	4,481	4,427	2.5	1.2	-3.7	4,637	4,350	4,248	5,778	-19.7
Ferrous metal foundries.....	2,187	2,191	2,235	-0.2	-2.0	-0.2	2,263	2,165	2,175	2,519	-10.2
Fabricated metal products.....	37,604	37,800	38,367	-0.5	-1.5	-1.1	37,096	36,942	37,789	39,653	-6.4
Machinery.....	44,714	44,581	45,119	0.3	-1.2	-1.6	44,854	43,614	44,697	53,688	-16.5
Construction machinery.....	2,029	2,060	2,052	-1.5	0.4	-1.6	2,116	2,024	1,914	2,321	-8.8
Mining, oil field, and gas field machinery.....	1,008	1,019	1,141	-1.1	-10.7	-0.8	1,008	1,019	1,141	1,243	-18.9
Industrial machinery.....	9,847	8,981	8,882	9.6	1.1	-2.4	9,890	8,621	8,921	8,785	12.6
Photographic equipment.....	992	1,023	975	-3.0	4.9	2.6	997	977	974	838	19.0
Ventilation, heating, air-conditioning, and refrigeration equipment.....	4,225	4,330	4,375	-2.4	-1.0	-1.1	4,182	4,084	4,191	4,654	-10.1
Metalworking machinery.....	3,802	3,832	3,819	-0.8	0.3	0.4	3,732	3,678	3,789	3,893	-4.1
Turbines, generators, and other power transmission equipment.....	9,188	9,452	9,772	-2.8	-3.3	-4.5	9,321	9,507	9,856	17,720	-47.4
Material handling equipment.....	4,811	5,019	5,095	-4.1	-1.5	-0.4	4,816	5,039	4,983	5,263	-8.5
Computers and electronic products <sup>1</sup> .....	107,930	107,940	107,390	0.0	0.5	-0.7	109,128	107,397	105,733	114,723	-4.9
Computers.....	7,574	7,808	6,869	-3.0	13.7	0.2	7,432	7,703	7,051	6,749	10.1
Nondefense communications equipment.....	35,705	35,528	36,337	0.5	-2.2	-1.1	36,225	35,197	35,787	40,315	-10.1
Defense communications equipment.....	2,502	2,473	2,435	1.2	1.6	-3.2	2,502	2,473	2,435	2,554	-2.0
Semiconductors <sup>2</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electronic components.....	14,273	14,343	14,305	-0.5	0.3	-1.6	14,502	14,122	14,138	16,604	-12.7
Nondefense search and navigation equipment.....	4,167	4,145	4,131	0.5	0.3	0.3	4,155	4,075	4,077	4,404	-5.7
Defense search and navigation equipment.....	30,538	30,415	30,097	0.4	1.1	0.0	30,949	30,657	29,192	31,462	-1.6
Electromedical, measuring, and control instruments.....	13,171	13,228	13,216	-0.4	0.1	-0.9	13,363	13,170	13,053	12,635	5.8
Electrical equipment, appliances, and components.....	14,308	14,411	14,474	-0.7	-0.4	-1.5	14,365	14,199	14,315	14,732	-2.5
Electric lighting equipment.....	1,640	1,591	1,640	3.1	-3.0	-1.3	1,601	1,519	1,560	1,386	15.5
Household appliances.....	857	909	919	-5.7	-1.1	-15.2	982	970	917	1,246	-21.2
Electrical equipment.....	8,315	8,307	8,285	0.1	0.3	-1.0	8,303	8,191	8,285	8,813	-5.8
Transportation equipment.....	247,263	248,035	247,599	-0.3	0.2	-0.3	248,225	246,464	242,550	253,457	-2.1
Motor vehicle bodies, parts, and trailers.....	12,223	12,318	12,287	-0.8	0.3	1.4	12,652	12,243	11,783	12,613	0.3
Nondefense aircraft and parts.....	113,876	113,158	112,243	0.6	0.8	-0.4	113,112	111,990	111,218	122,086	-7.4
Defense aircraft and parts.....	56,532	57,284	57,155	-1.3	0.2	-0.5	56,645	56,299	54,843	52,671	7.5
Ships and boats.....	20,504	20,662	21,036	-0.8	-1.8	-2.3	21,096	20,997	20,782	20,350	3.7
Furniture and related products.....	5,208	5,251	5,343	-0.8	-1.7	0.4	5,119	5,015	5,381	6,140	-16.6

<sup>p</sup> Preliminary      <sup>r</sup> Revised      NA Not available.<sup>1</sup> Aggregate estimates and percent changes exclude semiconductor industry data. Due to the number of large semiconductor manufacturers choosing not to participate in this voluntary monthly survey, the Census Bureau cannot currently produce monthly estimates of semiconductor shipments, orders, or inventories.<sup>2</sup> Due to the number of large semiconductor manufacturers choosing not to participate in this voluntary monthly survey, the Census Bureau cannot currently produce monthly estimates of semiconductor shipments, orders, or inventories.

See note at end of Table 2 relating to survey error and revision.

Table 4. Value of Manufacturers' Inventories for Industry Groups

[Millions of Dollars]

Industry	Seasonally Adjusted						Not Seasonally Adjusted				
	Monthly			Percent Change			Monthly				Percent Change Jan 03/02
	Jan 2003 <sup>p</sup>	Dec 2002 <sup>r</sup>	Nov 2002	Dec - Jan.	Nov - Dec.	Oct - Nov.	Jan 2003 <sup>p</sup>	Dec 2002 <sup>r</sup>	Nov 2002	Jan 2002	
All manufacturing industries <sup>1</sup> .....	430,804	430,951	428,220	0.0	0.6	-0.2	429,291	421,094	430,896	434,841	-1.3
Excluding transportation <sup>1</sup> .....	357,945	358,182	358,092	-0.1	0.0	0.0	356,802	350,584	359,650	361,505	-1.3
Excluding defense <sup>1</sup> .....	408,584	408,284	406,378	0.1	0.5	-0.2	407,181	399,043	408,960	412,455	-1.3
With unfilled orders <sup>1</sup> .....	215,313	216,005	213,345	-0.3	1.2	-0.2	214,310	210,494	214,791	223,039	-3.9
Durable goods industries <sup>1</sup> .....	264,695	265,242	262,487	-0.2	1.0	-0.2	263,605	258,103	264,149	272,166	-3.1
Wood products.....	9,182	9,195	9,296	-0.1	-1.1	0.0	9,336	9,109	9,400	9,578	-2.5
Nonmetallic mineral products.....	8,994	8,988	8,938	0.1	0.6	0.1	9,081	8,853	8,722	9,078	0.0
Primary metals.....	18,896	18,742	18,636	0.8	0.6	0.9	19,086	19,000	18,813	18,978	0.6
Iron and steel mills.....	11,038	10,966	10,892	0.7	0.7	1.5	11,188	11,232	11,067	10,567	5.9
Aluminum and nonferrous metals.....	6,068	6,007	6,013	1.0	-0.1	-0.4	6,103	6,023	6,035	6,647	-8.2
Ferrous metal foundries.....	1,790	1,769	1,731	1.2	2.2	1.3	1,795	1,745	1,711	1,764	1.8
Fabricated metal products.....	30,715	30,856	30,864	-0.5	0.0	0.0	30,641	30,198	30,594	31,499	-2.7
Machinery.....	44,486	44,729	44,440	-0.5	0.7	-0.1	44,358	43,445	44,791	46,508	-4.6
Farm machinery.....	2,071	2,060	2,084	0.5	-1.2	2.1	2,179	2,121	2,063	2,067	5.4
Construction machinery.....	3,675	3,617	3,814	1.6	-5.2	-1.0	3,724	3,606	3,826	4,064	-8.4
Mining, oil field, and gas field machinery.....	2,221	2,189	2,203	1.5	-0.6	0.4	2,186	2,091	2,205	2,271	-3.7
Industrial machinery.....	7,589	7,646	7,620	-0.7	0.3	0.2	7,530	7,461	7,732	7,870	-4.3
Photographic equipment.....	1,944	1,956	1,932	-0.6	1.2	0.3	1,894	1,826	1,974	1,918	-1.3
Ventilation, heating, air-conditioning, and refrigeration equipment.....	4,205	4,241	4,238	-0.8	0.1	1.7	4,135	3,979	4,207	4,057	1.9
Metalworking machinery.....	5,250	5,275	5,252	-0.5	0.4	-0.3	5,141	4,990	5,176	5,496	-6.5
Turbines, generators, and other power transmission equipment.....	4,787	4,894	4,563	-2.2	7.3	-2.1	4,628	4,631	4,761	5,183	-10.7
Material handling equipment.....	2,432	2,463	2,530	-1.3	-2.6	-1.4	2,445	2,443	2,530	2,634	-7.2
Computers and electronic products <sup>1</sup> .....	41,711	42,272	42,556	-1.3	-0.7	0.3	41,078	40,475	43,009	45,479	-9.7
Computers.....	3,151	3,227	3,245	-2.4	-0.6	6.5	2,995	3,063	3,374	2,906	3.1
Computer storage devices.....	1,116	1,131	1,195	-1.3	-5.4	-5.2	1,094	991	1,300	1,348	-18.8
Other peripheral equipment.....	2,640	2,709	2,655	-2.5	2.0	-1.8	2,600	2,456	2,714	2,806	-7.3
Nondefense communications equipment.....	7,811	7,947	8,453	-1.7	-6.0	1.6	7,703	7,558	8,576	10,671	-27.8
Defense communications equipment.....	825	846	810	-2.5	4.4	5.3	825	846	810	704	17.2
Audio and video equipment.....	1,155	1,153	1,185	0.2	-2.7	-0.9	1,124	1,042	1,268	1,034	8.7
Semiconductors <sup>2</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electronic components.....	8,973	8,927	9,091	0.5	-1.8	1.1	8,880	8,644	8,977	9,340	-4.9
Nondefense search and navigation equipment.....	2,940	3,095	3,086	-5.0	0.3	-1.2	2,939	3,001	3,093	3,045	-3.5
Defense search and navigation equipment.....	3,318	3,287	3,177	0.9	3.5	-4.7	3,226	3,153	3,177	3,297	-2.2
Electromedical, measuring and control instruments.....	9,388	9,541	9,260	-1.6	3.0	-0.4	9,304	9,325	9,323	9,879	-5.8
Electrical equipment, appliances, and components.....	12,423	12,397	12,503	0.2	-0.8	-0.6	12,363	11,916	12,478	13,385	-7.6
Electric lighting equipment.....	1,482	1,483	1,473	-0.1	0.7	0.0	1,469	1,407	1,474	1,499	-2.0
Household appliances.....	2,087	2,085	2,100	0.1	-0.7	-1.0	2,066	1,911	2,088	2,110	-2.1
Electrical equipment.....	4,228	4,153	4,177	1.8	-0.6	-0.9	4,292	4,089	4,248	4,651	-7.7
Batteries.....	622	628	654	-1.0	-4.0	-3.4	573	567	650	686	-16.5
Transportation equipment.....	72,859	72,769	70,128	0.1	3.8	-1.1	72,489	70,510	71,246	73,336	-1.2
Automobiles.....	1,805	1,715	1,772	5.2	-3.2	0.6	1,747	1,546	1,753	1,672	4.5
Light trucks and utility vehicles.....	2,129	2,077	1,983	2.5	4.7	0.5	2,011	1,835	1,998	1,720	16.9
Heavy duty trucks.....	894	898	898	-0.4	0.0	-1.4	894	848	907	828	8.0
Motor vehicle bodies, parts, and trailers.....	16,214	16,051	15,910	1.0	0.9	-0.7	16,292	16,073	16,039	15,427	5.6
Nondefense aircraft and parts.....	30,075	29,936	28,155	0.5	6.3	-2.0	29,840	28,787	29,035	31,688	-5.8
Defense aircraft and parts.....	10,847	11,151	10,736	-2.7	3.9	-0.7	10,794	10,782	10,815	10,752	0.4
Ships and boats.....	2,846	2,934	2,668	-3.0	10.0	1.5	2,820	2,864	2,692	2,525	11.7
Furniture and related products.....	7,069	7,019	7,050	0.7	-0.4	0.9	7,028	6,892	7,029	7,048	-0.3
Miscellaneous durable goods.....	18,360	18,275	18,076	0.5	1.1	-0.1	18,145	17,705	18,067	17,277	5.0
Nondurable goods industries.....	166,109	165,709	165,733	0.2	0.0	-0.2	165,686	162,991	166,747	162,675	1.9
Food products.....	32,043	32,022	32,221	0.1	-0.6	0.3	32,267	32,066	33,633	31,586	2.2
Grain and oilseed milling.....	3,513	3,503	3,500	0.3	0.1	1.1	3,759	3,707	3,680	3,417	10.0
Dairy products.....	3,466	3,506	3,429	-1.1	2.2	2.4	3,387	3,245	3,253	3,406	-0.6
Meat, poultry, and seafood products.....	6,208	6,234	6,262	-0.4	-0.4	-0.1	6,116	6,069	6,371	5,818	5.1
Beverage and tobacco products.....	14,153	14,185	14,139	-0.2	0.3	-1.5	14,481	14,429	14,448	14,704	-1.5
Beverages.....	9,260	9,293	9,103	-0.4	2.1	-1.6	9,299	9,295	9,222	9,149	1.6
Tobacco.....	4,893	4,892	5,036	0.0	-2.9	-1.4	5,182	5,134	5,226	5,555	-6.7
Textile mills.....	4,925	4,909	4,859	0.3	1.0	-1.3	4,935	4,749	4,790	5,393	-8.5
Textile products.....	4,587	4,528	4,493	1.3	0.8	-1.0	4,560	4,315	4,386	4,398	3.7
Apparel.....	7,514	7,489	7,434	0.3	0.7	-0.5	7,490	7,246	7,129	7,906	-5.3
Leather and allied products.....	1,625	1,593	1,577	2.0	1.0	-0.3	1,606	1,526	1,572	1,460	10.0
Paper products.....	14,605	14,544	14,527	0.4	0.1	0.2	14,720	14,459	14,477	14,864	-1.0
Pulp, paper, and paperboard mills.....	6,257	6,195	6,206	1.0	-0.2	0.5	6,332	6,170	6,154	6,673	-5.1
Paperboard containers.....	4,246	4,230	4,157	0.4	1.8	-0.2	4,281	4,234	4,153	4,095	4.5
Printing.....	5,932	5,972	5,971	-0.7	0.0	-0.1	5,672	5,574	6,010	5,854	-3.1
Petroleum and coal products.....	13,976	13,598	13,024	2.8	4.4	-1.9	13,370	12,613	12,897	11,036	21.1
Petroleum refineries.....	12,544	12,160	11,590	3.2	4.9	-2.0	11,975	11,306	11,503	9,667	23.9
Basic chemicals.....	49,111	49,367	49,945	-0.5	-1.2	0.4	48,810	48,739	50,040	48,747	0.1
Pesticides, fertilizers, and other agricultural chemicals.....	2,325	2,397	2,440	-3.0	-1.8	-2.7	2,580	2,487	2,413	2,820	-8.5
Pharmaceuticals and medicines.....	17,377	17,573	18,254	-1.1	-3.7	2.0	16,860	17,274	18,529	16,634	1.4
Paints, coatings, and adhesives.....	2,965	2,942	2,948	0.8	-0.2	0.4	2,954	2,820	2,861	2,879	2.6
Plastics and rubber products.....	17,638	17,502	17,543	0.8	-0.2	0.0	17,775	17,275	17,365	16,727	6.3

<sup>p</sup> Preliminary<sup>r</sup> Revised

NA Not available.

<sup>1</sup> See footnote at end of Table 3.<sup>2</sup> See footnote at end of Table 3.

See note at end of Table 2 relating to survey error and revision.

**Table 5. Value of Manufacturers' Shipments, New Orders, Unfilled Orders, and Total Inventories for Topical Series <sup>1</sup>**

[Millions of Dollars]

Industry	Seasonally Adjusted						Not Seasonally Adjusted <sup>2</sup>						
	Monthly			Percent Change			Monthly			Year to date		Percent Change <sup>6</sup> 2003/2002	
	Jan 2003 <sup>p</sup>	Dec 2002 <sup>r</sup>	Nov 2002	Dec - Jan.	Nov - Dec.	Oct - Nov.	Jan 2003 <sup>p</sup>	Dec 2002 <sup>r</sup>	Nov 2002	Jan 2002	2003 <sup>p</sup>		2002
<b>SHIPMENTS</b>													
All manufacturing industries <sup>5</sup>	328,144	321,016	322,863	2.2	-0.6	-1.1	298,758	313,437	318,953	288,999	298,758	288,999	3.4
Construction materials and supplies.....	36,274	36,322	36,111	-0.1	0.6	-0.1	32,073	32,281	34,493	30,732	32,073	30,732	4.4
Information technology.....	27,052	25,789	26,143	4.9	-1.4	-0.9	22,202	31,103	25,914	21,766	22,202	21,766	2.0
Computers and related products .....	7,741	6,423	6,675	20.5	-3.8	-6.1	6,185	8,521	6,270	5,228	6,185	5,228	18.3
Motor vehicle and parts.....	38,387	34,511	36,540	11.2	-5.6	-7.0	36,659	29,258	36,258	35,530	36,659	35,530	3.2
Capital goods.....	63,192	61,507	63,077	2.7	-2.5	-0.9	53,367	68,682	61,650	53,037	53,367	53,037	0.6
Nondefense capital goods <sup>3</sup>	55,880	55,229	56,031	1.2	-1.4	-1.8	47,262	61,397	54,281	47,578	47,262	47,578	-0.7
Excluding aircraft.....	54,153	52,468	53,154	3.2	-1.3	-1.4	46,036	57,641	51,275	44,986	46,036	44,986	2.3
Defense capital goods <sup>4</sup>	7,312	6,278	7,046	16.5	-10.9	6.6	6,105	7,285	7,369	5,459	6,105	5,459	11.8
Consumer goods.....	127,765	125,482	123,720	1.8	1.4	-1.7	119,498	121,147	125,096	115,267	119,498	115,267	3.7
Consumer durable goods.....	34,520	33,177	33,047	4.0	0.4	-3.8	31,828	29,997	33,318	31,216	31,828	31,216	2.0
Consumer nondurable goods.....	93,245	92,305	90,673	1.0	1.8	-0.9	87,670	91,150	91,778	84,051	87,670	84,051	4.3
<b>NEW ORDERS</b>													
All manufacturing industries <sup>5</sup>	327,114	320,465	319,427	2.1	0.3	-0.8	304,478	316,603	314,775	290,267	304,478	290,267	4.9
Construction materials and supplies.....	35,926	35,977	35,949	-0.1	0.1	-1.4	32,156	31,631	34,108	31,167	32,156	31,167	3.2
Information technology.....	26,973	26,323	25,637	2.5	2.7	0.0	23,533	32,752	25,807	22,285	23,533	22,285	5.6
Computers and related products .....	7,507	7,362	6,692	2.0	10.0	-6.2	5,914	9,173	6,654	5,173	5,914	5,173	14.3
Motor vehicle and parts.....	38,292	34,542	36,714	10.9	-5.9	-6.0	37,068	29,718	36,577	35,950	37,068	35,950	3.1
Capital goods.....	63,328	62,808	60,483	0.8	3.8	1.7	56,924	73,233	59,131	51,264	56,924	51,264	11.0
Nondefense capital goods <sup>3</sup>	56,498	55,842	54,558	1.2	2.4	-1.2	50,092	61,332	53,227	46,689	50,092	46,689	7.3
Excluding aircraft.....	53,925	51,623	51,914	4.5	-0.6	-3.0	48,020	56,118	50,454	45,575	48,020	45,575	5.4
Defense capital goods <sup>4</sup>	6,830	6,966	5,925	-2.0	17.6	39.0	6,832	11,901	5,904	4,575	6,832	4,575	49.3
Consumer goods.....	127,672	125,359	123,463	1.8	1.5	-2.0	119,630	120,915	125,027	115,569	119,630	115,569	3.5
Consumer durable goods.....	34,427	33,054	32,790	4.2	0.8	-5.0	31,960	29,765	33,249	31,518	31,960	31,518	1.4
Consumer nondurable goods.....	93,245	92,305	90,673	1.0	1.8	-0.9	87,670	91,150	91,778	84,051	87,670	84,051	4.3
<b>UNFILLED ORDERS</b>													
All manufacturing industries <sup>5</sup>	476,388	477,418	477,969	-0.2	-0.1	-0.7	478,125	472,405	469,239	503,226	(X)	(X)	-5.0
Construction materials and supplies.....	31,687	32,035	32,380	-1.1	-1.1	-0.5	31,107	31,024	31,674	32,178	(X)	(X)	-3.3
Information technology.....	98,145	98,224	97,690	-0.1	0.5	-0.5	99,102	97,771	96,122	102,244	(X)	(X)	-3.1
Computers and related products .....	7,574	7,808	6,869	-3.0	13.7	0.2	7,432	7,703	7,051	6,749	(X)	(X)	10.1
Motor vehicle and parts.....	12,223	12,318	12,287	-0.8	0.3	1.4	12,652	12,243	11,783	12,613	(X)	(X)	0.3
Capital goods.....	332,697	332,561	331,260	0.0	0.4	-0.8	335,214	331,657	327,106	353,665	(X)	(X)	-5.2
Nondefense capital goods <sup>3</sup>	209,718	209,100	208,487	0.3	0.3	-0.7	210,242	207,412	207,477	229,899	(X)	(X)	-8.6
Excluding aircraft.....	123,657	123,885	124,730	-0.2	-0.7	-1.0	124,181	122,197	123,720	137,496	(X)	(X)	-9.7
Defense capital goods <sup>4</sup>	122,979	123,461	122,773	-0.4	0.6	-0.9	124,972	124,245	119,629	123,766	(X)	(X)	1.0
Consumer goods.....	11,734	11,827	11,950	-0.8	-1.0	-2.1	11,884	11,752	11,984	13,459	(X)	(X)	-11.7
Consumer durable goods.....	11,734	11,827	11,950	-0.8	-1.0	-2.1	11,884	11,752	11,984	13,459	(X)	(X)	-11.7
<b>TOTAL INVENTORIES</b>													
All manufacturing industries <sup>5</sup>	430,804	430,951	428,220	0.0	0.6	-0.2	429,291	421,094	430,896	434,841	(X)	(X)	-1.3
Construction materials and supplies.....	45,737	45,764	45,709	-0.1	0.1	0.4	45,885	44,712	45,328	46,008	(X)	(X)	-0.3
Information technology.....	38,686	39,349	39,496	-1.7	-0.4	0.1	38,055	37,599	40,024	42,496	(X)	(X)	-10.5
Computers and related products .....	6,907	7,067	7,095	-2.3	-0.4	1.2	6,689	6,510	7,388	7,060	(X)	(X)	-5.3
Motor vehicle and parts.....	21,042	20,741	20,563	1.5	0.9	-0.5	20,944	20,302	20,697	19,647	(X)	(X)	6.6
Capital goods.....	131,012	131,846	130,053	-0.6	1.4	-0.3	129,952	127,433	131,763	139,507	(X)	(X)	-6.8
Nondefense capital goods <sup>3</sup>	112,396	112,810	111,640	-0.4	1.0	-0.3	111,402	108,811	113,414	120,669	(X)	(X)	-7.7
Excluding aircraft.....	89,323	90,016	89,890	-0.8	0.1	0.0	88,547	86,960	90,801	95,278	(X)	(X)	-7.1
Defense capital goods <sup>4</sup>	18,616	19,036	18,413	-2.2	3.4	-0.1	18,550	18,622	18,349	18,838	(X)	(X)	-1.5
Consumer goods.....	127,780	127,268	127,413	0.4	-0.1	-0.1	126,979	124,526	128,901	123,425	(X)	(X)	2.9
Consumer durable goods.....	26,856	26,715	26,687	0.5	0.1	-0.1	26,584	25,474	26,706	25,649	(X)	(X)	3.6
Consumer nondurable goods.....	100,924	100,553	100,726	0.4	-0.2	0.0	100,395	99,052	102,195	97,776	(X)	(X)	2.7

<sup>p</sup> Preliminary      <sup>r</sup> Revised      X Not Applicable.

<sup>1</sup> Topical series are regroupings of the separate industry categories.

<sup>2</sup> Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations.

<sup>3</sup> Nondefense capital goods industries include: small arms and ordnance; farm machinery and equipment; construction machinery; mining, oil, and gas field machinery; industrial machinery; vending, laundry, and other machinery; photographic equipment; metalworking machinery; turbines and generators; other power transmission equipment; pumps and compressors; material handling equipment; all other machinery; electronic computers; computer storage devices; other computer peripheral equipment; communications equipment; search and navigation equipment; electromedical, measuring, and control instruments; electrical equipment; other electrical equipment; appliances, and components; heavy duty trucks; aircraft; railroad rolling stock; ships and boats; office and institutional furniture; and medical equipment and supplies.

<sup>4</sup> Defense capital goods industries include: small arms and ordnance; communications equipment; aircraft; missiles, space vehicles, and parts; ships and boats; and search and navigation equipment.

<sup>5</sup> Aggregate estimates and percent changes exclude semiconductor industry data. Due to the number of large semiconductor manufacturers choosing not to participate in this voluntary monthly survey, the Census Bureau cannot currently produce monthly estimates of semiconductor shipments, orders, or inventories.

See note at end of Table 2 relating to survey error and revision.

<sup>6</sup> Based on year-to-date for shipments and new orders, but on same month prior year for unfilled orders and inventories.

Table 6. Value of Manufacturers' Inventories, by Stage of Fabrication, by Industry Group

[Millions of Dollars]

Industry	Seasonally Adjusted						Not Seasonally Adjusted				
	Monthly			Percent Change			Monthly				Percent Change Jan 03/02
	Jan 2003 <sup>p</sup>	Dec 2002 <sup>r</sup>	Nov 2002	Dec - Jan.	Nov - Dec.	Oct - Nov.	Jan 2003 <sup>p</sup>	Dec 2002 <sup>r</sup>	Nov 2002	Jan 2002	
<b>MATERIALS AND SUPPLIES</b>											
All manufacturing industries <sup>1</sup> .....	139,058	138,406	139,407	0.5	-0.7	-0.4	139,690	138,101	140,045	144,587	-3.4
Durable goods industries <sup>1</sup> .....	82,923	83,293	83,486	-0.4	-0.2	-1.0	83,394	83,083	84,229	88,712	-6.0
Wood products.....	3,419	3,395	3,431	0.7	-1.0	-1.7	3,640	3,608	3,755	3,870	-5.9
Nonmetallic mineral products.....	3,239	3,234	3,222	0.2	0.4	-1.1	3,251	3,234	3,232	3,369	-3.5
Primary metals.....	6,252	6,210	6,159	0.7	0.8	-0.7	6,368	6,477	6,368	6,280	1.4
Fabricated metal products.....	10,635	10,706	10,762	-0.7	-0.5	-0.7	10,649	10,717	10,617	10,805	-1.4
Machinery.....	14,464	14,626	14,630	-1.1	0.0	-1.2	14,528	14,365	14,624	16,322	-11.0
Computers and electronic products <sup>1</sup> ..	14,884	15,085	15,394	-1.3	-2.0	-0.7	14,731	14,803	15,476	17,363	-15.2
Electrical equipment, appliances, and components.....	4,480	4,402	4,442	1.8	-0.9	0.2	4,474	4,351	4,471	4,851	-7.8
Transportation equipment.....	16,370	16,404	16,325	-0.2	0.5	-1.3	16,625	16,434	16,611	16,852	-1.3
Furniture and related products.....	2,982	2,989	2,948	-0.2	1.4	0.6	2,973	2,982	2,920	3,014	-1.4
Miscellaneous products.....	6,198	6,242	6,173	-0.7	1.1	-1.9	6,155	6,112	6,155	5,986	2.8
Nondurable goods industries.....	56,135	55,113	55,921	1.9	-1.4	0.5	56,296	55,018	55,816	55,875	0.8
Food products.....	9,992	9,995	9,966	0.0	0.3	0.1	10,189	10,018	10,056	10,316	-1.2
Beverage and tobacco products.....	5,716	5,876	6,049	-2.7	-2.9	0.6	5,981	6,116	5,897	6,173	-3.1
Textiles.....	1,390	1,402	1,431	-0.9	-2.0	0.7	1,391	1,398	1,421	1,488	-6.5
Textile products.....	1,539	1,504	1,501	2.3	0.2	-2.0	1,514	1,451	1,466	1,474	2.7
Apparel.....	1,666	1,681	1,714	-0.9	-1.9	0.5	1,644	1,680	1,678	1,784	-7.8
Leather and allied products.....	358	356	365	0.6	-2.5	0.6	353	348	360	338	4.4
Paper products.....	7,135	7,113	7,040	0.3	1.0	-0.8	7,199	7,155	7,043	7,193	0.1
Printing.....	2,406	2,388	2,496	0.8	-4.3	1.2	2,376	2,315	2,539	2,508	-5.3
Petroleum and coal products.....	3,660	3,014	3,152	21.4	-4.4	2.1	3,449	2,819	3,113	2,702	27.6
Basic chemicals.....	15,406	14,983	15,373	2.8	-2.5	2.0	15,354	14,938	15,441	15,270	0.6
Plastics and rubber products.....	6,867	6,801	6,834	1.0	-0.5	-1.3	6,846	6,780	6,802	6,629	3.3
<b>WORK IN PROCESS</b>											
All manufacturing industries <sup>1</sup> .....	128,985	128,866	126,420	0.1	1.9	-0.3	127,909	124,461	128,457	131,110	-2.4
Durable goods industries <sup>1</sup> .....	100,060	100,037	97,231	0.0	2.9	-0.2	99,105	96,420	98,492	103,607	-4.3
Wood products.....	2,030	2,077	2,077	-2.3	0.0	0.8	2,013	2,028	2,060	1,921	4.8
Nonmetallic mineral products.....	1,146	1,161	1,150	-1.3	1.0	0.3	1,147	1,110	1,096	1,148	-0.1
Primary metals.....	6,383	6,244	6,291	2.2	-0.7	1.5	6,381	6,253	6,317	6,448	-1.0
Fabricated metal products.....	9,806	9,848	9,809	-0.4	0.4	0.5	9,665	9,554	9,828	9,944	-2.8
Machinery.....	13,996	14,104	13,950	-0.8	1.1	0.3	13,538	13,407	14,218	14,236	-4.9
Computers and electronic products <sup>1</sup> ..	17,491	17,656	17,556	-0.9	0.6	1.1	17,138	16,670	17,702	17,914	-4.3
Electrical equipment, appliances, and components.....	2,823	2,821	2,758	0.1	2.3	0.0	2,788	2,676	2,715	3,034	-8.1
Transportation equipment.....	41,728	41,684	39,207	0.1	6.3	-1.4	41,867	40,457	40,097	44,420	-5.7
Furniture and related products.....	1,419	1,356	1,435	4.6	-5.5	-1.4	1,415	1,353	1,421	1,507	-6.1
Miscellaneous products.....	3,238	3,086	2,998	4.9	2.9	-0.9	3,153	2,912	3,038	3,035	3.9
Nondurable goods industries.....	28,925	28,829	29,189	0.3	-1.2	-0.7	28,804	28,041	29,965	27,503	4.7
Food products.....	2,817	2,800	2,783	0.6	0.6	-1.0	2,956	3,007	3,239	2,691	9.8
Beverage and tobacco products.....	3,968	3,979	3,920	-0.3	1.5	-1.3	4,125	4,151	4,224	4,015	2.7
Textiles.....	1,168	1,149	1,118	1.7	2.8	-0.2	1,185	1,115	1,101	1,324	-10.5
Textile products.....	768	752	774	2.1	-2.8	-0.6	759	706	774	813	-6.6
Apparel.....	1,373	1,373	1,351	0.0	1.6	1.8	1,379	1,269	1,337	1,455	-5.2
Leather and allied products.....	126	138	141	-8.7	-2.1	-7.2	124	133	139	170	-27.1
Paper products.....	1,140	1,161	1,188	-1.8	-2.3	-0.6	1,165	1,176	1,166	1,316	-11.5
Printing.....	1,754	1,758	1,892	-0.2	-7.1	-1.6	1,644	1,468	1,915	1,758	-6.5
Petroleum and coal products.....	4,141	4,102	3,783	1.0	8.4	-3.1	3,973	3,742	3,748	2,996	32.6
Basic chemicals.....	9,361	9,313	9,918	0.5	-6.1	0.3	9,145	9,032	10,000	8,683	5.3
Plastics and rubber products.....	2,309	2,304	2,321	0.2	-0.7	-0.4	2,349	2,242	2,322	2,282	2.9
<b>FINISHED GOODS</b>											
All manufacturing industries <sup>1</sup> .....	162,761	163,679	162,393	-0.6	0.8	0.1	161,692	158,532	162,394	159,144	1.6
Durable goods industries <sup>1</sup> .....	81,712	81,912	81,770	-0.2	0.2	0.6	81,106	78,600	81,428	79,847	1.6
Wood products.....	3,733	3,723	3,788	0.3	-1.7	1.1	3,683	3,473	3,585	3,787	-2.7
Nonmetallic mineral products.....	4,609	4,593	4,566	0.3	0.6	0.9	4,683	4,509	4,394	4,561	2.7
Primary metals.....	6,261	6,288	6,186	-0.4	1.6	1.9	6,337	6,270	6,128	6,250	1.4
Fabricated metal products.....	10,274	10,302	10,293	-0.3	0.1	0.2	10,327	9,927	10,149	10,750	-3.9
Machinery.....	16,026	15,999	15,860	0.2	0.9	0.6	16,292	15,673	15,949	15,950	2.1
Computers and electronic products <sup>1</sup> ..	9,336	9,531	9,606	-2.0	-0.8	0.5	9,209	9,002	9,831	10,202	-9.7
Electrical equipment, appliances, and components.....	5,120	5,174	5,303	-1.0	-2.4	-1.5	5,101	4,889	5,292	5,500	-7.3
Transportation equipment.....	14,761	14,681	14,596	0.5	0.6	0.1	13,997	13,619	14,538	12,064	16.0
Furniture and related products.....	2,668	2,674	2,667	-0.2	0.3	2.4	2,640	2,557	2,688	2,527	4.5
Miscellaneous products.....	8,924	8,947	8,905	-0.3	0.5	1.5	8,837	8,681	8,874	8,256	7.0
Nondurable goods industries.....	81,049	81,767	80,623	-0.9	1.4	-0.5	80,586	79,932	80,966	79,297	1.6
Food products.....	19,234	19,227	19,472	0.0	-1.3	0.6	19,122	19,041	20,338	18,579	2.9
Beverage and tobacco products.....	4,469	4,330	4,170	3.2	3.8	-4.8	4,375	4,162	4,327	4,516	-3.1
Textiles.....	2,367	2,358	2,310	0.4	2.1	-3.1	2,359	2,236	2,268	2,581	-8.6
Textile products.....	2,280	2,272	2,218	0.4	2.4	-0.4	2,287	2,158	2,146	2,111	8.3
Apparel.....	4,475	4,435	4,369	0.9	1.5	-1.6	4,467	4,297	4,114	4,667	-4.3
Leather and allied products.....	1,141	1,099	1,071	3.8	2.6	0.5	1,129	1,045	1,073	952	18.6
Paper products.....	6,330	6,270	6,299	1.0	-0.5	1.4	6,356	6,128	6,268	6,355	0.0
Printing.....	1,772	1,826	1,583	-3.0	15.4	-0.4	1,652	1,791	1,556	1,588	4.0
Petroleum and coal products.....	6,175	6,482	6,089	-4.7	6.5	-3.1	5,948	6,052	6,036	5,338	11.4
Basic chemicals.....	24,344	25,071	24,654	-2.9	1.7	-0.5	24,311	24,769	24,599	24,794	-1.9
Plastics and rubber products.....	8,462	8,397	8,388	0.8	0.1	1.2	8,580	8,253	8,241	7,816	9.8

<sup>p</sup> Preliminary<sup>r</sup> Revised<sup>1</sup> See footnote at end of Table 3.

See note at end of Table 2 relating to survey error and revisions.



**Table 7. Ratios of Manufacturers' Inventories to Shipments and Unfilled Orders to Shipments, by Industry Group**

[Based on Seasonally Adjusted data]

Industry	Inventory/Shipments ratio				Unfilled Orders/Shipments ratio <sup>1</sup>			
	Jan 2003 <sup>p</sup>	Dec 2002 <sup>r</sup>	Nov 2002	Oct 2002	Jan 2003 <sup>p</sup>	Dec 2002 <sup>r</sup>	Nov 2002	Oct 2002
All manufacturing industries <sup>2</sup> .....	1.31	1.34	1.33	1.31	(X)	(X)	(X)	(X)
Durable goods industries <sup>2</sup> .....	1.51	1.56	1.51	1.49	3.92	4.05	3.94	3.92
Wood products.....	1.25	1.24	1.24	1.27	(X)	(X)	(X)	(X)
Nonmetallic mineral products.....	1.03	1.05	1.06	1.06	(X)	(X)	(X)	(X)
Primary metals.....	1.66	1.68	1.67	1.62	1.30	1.34	1.36	1.39
Fabricated metal products.....	1.47	1.47	1.47	1.45	1.89	1.89	1.92	1.91
Machinery.....	1.98	2.01	1.96	1.95	2.18	2.22	2.19	2.22
Computers and electronic products <sup>2</sup> .....	1.55	1.65	1.63	1.61	4.71	4.92	4.89	4.85
Electrical equipment, appliances, and components.....	1.38	1.38	1.37	1.40	1.68	1.70	1.68	1.72
Transportation equipment.....	1.40	1.51	1.37	1.32	7.71	8.31	7.52	7.42
Furniture and related products.....	1.25	1.23	1.28	1.26	1.04	1.04	1.10	1.09
Miscellaneous products.....	1.70	1.71	1.71	1.74	(X)	(X)	(X)	(X)
Nondurable goods industries.....	1.09	1.10	1.11	1.11	(X)	(X)	(X)	(X)
Food products.....	0.84	0.84	0.85	0.85	(X)	(X)	(X)	(X)
Beverage and tobacco products.....	1.64	1.65	1.62	1.61	(X)	(X)	(X)	(X)
Textiles.....	1.39	1.47	1.35	1.40	(X)	(X)	(X)	(X)
Textile products.....	1.47	1.44	1.41	1.46	(X)	(X)	(X)	(X)
Apparel.....	1.57	1.56	1.52	1.63	(X)	(X)	(X)	(X)
Leather and allied products.....	2.25	2.52	2.17	2.20	(X)	(X)	(X)	(X)
Paper products.....	1.12	1.11	1.14	1.12	(X)	(X)	(X)	(X)
Printing.....	0.74	0.74	0.74	0.74	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.66	0.67	0.69	0.68	(X)	(X)	(X)	(X)
Basic chemicals.....	1.34	1.37	1.39	1.39	(X)	(X)	(X)	(X)
Plastics and rubber products.....	1.16	1.15	1.16	1.16	(X)	(X)	(X)	(X)

<sup>p</sup> Preliminary      <sup>r</sup> Revised      X Not Applicable

<sup>1</sup> Excludes the following industries with no unfilled orders: Wood products; nonmetallic mineral products; medical equipment and supplies; office supplies; other miscellaneous manufacturing; cutlery and handtools; farm and garden machinery; computer storage and peripheral devices; audio and video equipment; manufacturing and reproducing magnetic and optical media; batteries; automobiles; light trucks and utility vehicles; heavy duty trucks; and miscellaneous furniture.

<sup>2</sup> See footnote at end of Table 2.

**Table 8. Revisions to Previously Published Monthly Percent Changes**

[Based on Seasonally Adjusted data]

Industry	Shipments			New Orders			Unfilled Orders			Inventories		
	Jan <sup>1</sup> 2003	Jan <sup>2</sup> 1998-2002	Jan 2002-Dec 2002	Jan <sup>1</sup> 2003	Jan <sup>2</sup> 1998-2002	Jan 2002-Dec 2002	Jan <sup>1</sup> 2003	Jan <sup>2</sup> 1998-2002	Jan 2002-Dec 2002	Jan <sup>1</sup> 2003	Jan <sup>2</sup> 1998-2002	Jan 2002-Dec 2002
All manufacturing industries <sup>3</sup> .....	(X)	(NA)	0.2	(X)	(NA)	0.3	(X)	(NA)	0.2	(X)	(NA)	0.1
Durable goods industries <sup>3</sup> .....	-0.3	(NA)	0.2	-0.4	(NA)	0.5	0.0	(NA)	0.2	-0.1	(NA)	0.1
Wood products.....	(X)	(NA)	0.7	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.5
Nonmetallic mineral products.....	(X)	(NA)	1.2	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.4
Primary metals.....	-0.2	(NA)	0.4	-0.2	(NA)	0.7	0.0	(NA)	0.3	0.0	(NA)	0.1
Fabricated metal products.....	-0.4	(NA)	0.2	-0.5	(NA)	1.0	-0.1	(NA)	0.4	0.1	(NA)	0.2
Machinery.....	-0.4	(NA)	0.4	-0.9	(NA)	1.2	-0.3	(NA)	0.4	0.1	(NA)	0.2
Computers and electronic products <sup>3</sup> .....	-1.5	(NA)	0.7	-0.9	(NA)	1.1	0.2	(NA)	0.3	-0.4	(NA)	0.3
Electrical equipment, appliances, and components.....	-0.9	(NA)	0.4	-0.8	(NA)	0.8	0.2	(NA)	0.5	0.2	(NA)	0.1
Transportation equipment.....	0.1	(NA)	0.6	-0.1	(NA)	1.4	0.0	(NA)	0.2	-0.1	(NA)	0.3
Furniture and related products.....	(X)	(NA)	0.3	(X)	(NA)	0.8	(X)	(NA)	0.7	(X)	(NA)	0.1
Miscellaneous products.....	(X)	(NA)	0.4	(X)	(NA)	1.2	(X)	(NA)	2.0	(X)	(NA)	0.4
Nondurable goods industries.....	(X)	(NA)	0.4	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.2
Food products.....	(X)	(NA)	0.7	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.3
Beverage and tobacco products.....	(X)	(NA)	1.1	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.2
Textiles.....	(X)	(NA)	1.1	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.5
Textile products.....	(X)	(NA)	1.0	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.4
Apparel.....	(X)	(NA)	0.9	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.5
Leather and allied products.....	(X)	(NA)	5.0	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	1.0
Paper products.....	(X)	(NA)	1.2	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.3
Printing.....	(X)	(NA)	0.3	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.4
Petroleum and coal products.....	(X)	(NA)	1.1	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.7
Basic chemicals.....	(X)	(NA)	0.9	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.2
Plastics and rubber products.....	(X)	(NA)	0.3	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.3

X Not Applicable

NA Not Available

<sup>1</sup> The current month revisions are the difference between the advance percent change and the percent change as shown in this publication.

<sup>2</sup> Average revisions of the current month for the past five years.

<sup>3</sup> See footnote at end of Table 7

See note at end of Table 2 relating to survey error and revision. In Table 8, the second column for each item represents the average revisions of the current month for the past five years.

NOTE: The five year and the twelve month revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the absolute values of the differences for the months specified. The advance to final percent change revisions for the durable goods industries are shown in the advance report for the month.

## Survey Description

This report is compiled from results of the U.S. Census Bureau's Manufacturers' Shipments, Inventories, and Orders (M3) survey. This survey provides statistics on manufacturers' value of shipments, new orders (net of cancellations), end-of-month order backlog (unfilled orders), end-of-month total inventory (at current cost or market value), and inventories by stage of fabrication (materials and supplies, work-in-process, and finished goods). The M3 includes approximately 3,500 reporting units. Units may be divisions of diversified large companies, large homogenous companies, or single-unit manufacturers in 89 industry categories. Due to the small monthly sample, these 89 categories have been combined into 59 publication levels. The survey methodology assumes that the month-to-month changes of the total operations of those companies in the monthly survey effectively represent the month-to-month movements of all establishments that make up the category. The current coverage levels in the survey show that reported data in the monthly survey represent approximately 60 percent of the shipments estimates at the total manufacturing level. Data published represent manufacturing in a calendar month. The data collection is based on a voluntary survey authorized by Title 13 of the United States Code.

The data presented in this release are based on data obtained from a panel of 3,500 reporting units and provide an indication of the activity within the manufacturing sector. The results differ from what would be obtained from a complete enumeration of all manufacturing companies. In addition, a different panel of 3,500 companies would yield different results. The M3 panel is comprised of companies with \$500 million or more in shipments and a limited number of smaller companies. From a statistical perspective, the panel is not a probability sample; therefore, the sampling errors that are normally provided with sample surveys cannot be measured. Nonsampling errors are attributable to many sources. The use of company or divisional reports to estimate the monthly change for establishments is one source of nonsampling error. The use of primarily large companies to represent the month-to-month movement of all companies is another potential source.

Additional survey documentation can be found on our web site: <http://www.census.gov/m3>.