

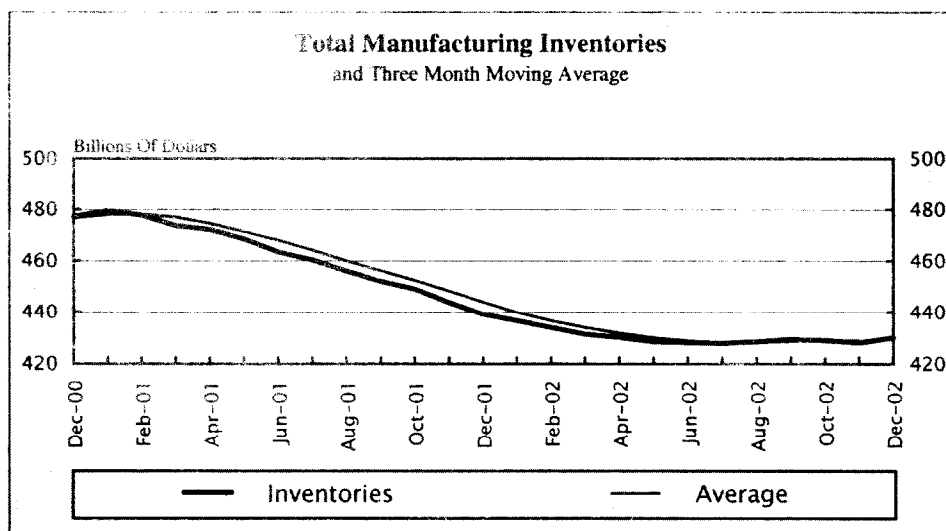
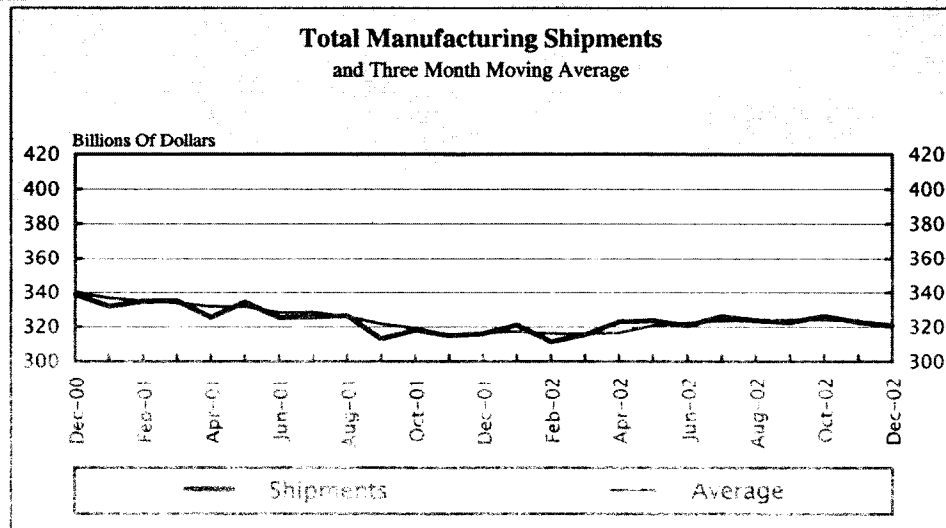
Manufacturers' Shipments, Inventories, and Orders

December
2002

M3-1(02)-12

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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 January is scheduled for February 27, 2003 at 8:30 a.m. and the full report on March 6, 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 December increased \$1.2 billion or 0.4 percent to \$320.6 billion, the Department of Commerce, Census Bureau reported today. This followed a 0.8 percent November decrease. New orders for 2002 were 0.8 percent below the prior year.

Shipments decreased \$1.9 billion or 0.6 percent to \$321.0 billion, following a 1.1 percent November decrease. Shipments for 2002 were 1.1 percent below the prior year.

Unfilled orders, down four consecutive months, decreased \$0.3 billion or 0.1 percent to \$477.6 billion, following a 0.7 percent November decrease; this was the lowest level since September 1996. The unfilled orders-to-shipments ratio was 4.03, up from 3.94 in November.

Inventories increased \$2.0 billion or 0.5 percent to \$430.2 billion, following a 0.2 percent November decrease; this was the largest increase since January 2001. The inventories-to-shipments ratio was 1.34, up from 1.33 in November.

New Orders

New orders for manufactured durable goods in December decreased \$0.4 billion or 0.2 percent to \$169.5 billion, revised from the previously published 0.2 percent increase.

Transportation equipment had the largest decrease, \$1.4 billion or 2.7 percent to \$49.1 billion, led by motor vehicle bodies, parts, and trailers, which decreased by \$1.8 billion. Computers and electronic products increased \$0.8 billion or 3.2 percent to \$26.1 billion.

New orders for manufactured nondurable goods increased \$1.6 billion or 1.1 percent to \$151.1 billion.

Shipments

Shipments of manufactured durable goods in December decreased \$3.5 billion or 2.0 percent to \$169.9 billion, revised from the previously published 1.5 percent decrease; this was the lowest level since September 2001.

Transportation equipment had the largest decrease, \$2.6 billion or 5.0 percent to \$48.7 billion, led by motor vehicle bodies, parts, and trailers, which decreased by \$1.6 billion.

Shipments of manufactured nondurable goods increased \$1.6 billion or 1.1 percent to \$151.1 billion. Petroleum and coal products had the largest increase, \$1.2 billion or 6.5 percent to \$20.0 billion, due to petroleum refineries, which increased \$1.2 billion.

Unfilled Orders

Unfilled orders for manufactured durable goods in December, down four consecutive months, decreased \$0.3 billion or 0.1 percent to \$477.6 billion, revised from the previously published 0.2 percent decrease. This was the lowest level since September 1996.

Fabricated metal products had the largest decrease, \$0.5 billion or 1.3 percent to \$37.9 billion.

Inventories

Inventories of manufactured durable goods in December increased \$2.5 billion or 1.0 percent to \$265.0 billion, revised from the previously published 0.9 percent increase. This was the first increase since January 2001 and the largest percent increase since this series began in 1992.

Transportation equipment had the largest increase, \$2.7 billion or 3.8 percent to \$72.8 billion, led by nondefense aircraft and parts, which increased by \$1.8 billion.

Inventories of manufactured nondurable goods decreased \$0.5 billion or 0.3 percent to \$165.2 billion. Basic chemicals had the largest decrease, \$0.6 billion or 1.2 percent to \$49.3 billion, due to pharmaceuticals and medicines, which decreased \$0.7 billion.

By stage of fabrication, December materials and supplies decreased 0.3 percent in durable goods and 1.3 percent in nondurable goods. Work in process increased 2.7 percent in durable goods and decreased 1.4 percent in nondurable goods. Finished goods increased 0.2 percent in durable goods and 0.7 percent in nondurable goods.

Effective with the January 2003 report, there will be some minor changes to the publication. Year-to-date comparisons in the text will be 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

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Table 1. Value of Manufacturers' Shipments for Industry Groups

[Millions of Dollars]

Industry	Seasonally Adjusted						Not Seasonally Adjusted ¹						
	Monthly			Percent Change			Monthly				Percent Change Dec. 02/01	Year to date	
	Dec. 2002 ²	Nov. 2002 ²	Oct. 2002	Nov. - Dec.	Oct. - Nov.	Sept. - Oct.	Dec. 2002 ²	Nov. 2002 ²	Oct. 2002	Dec. 2001		2002 ²	2001
All manufacturing industries ²	320,957	322,863	326,339	-0.6	-1.1	1.2	313,319	318,953	338,008	310,005	1.1	3,855,754	3,897,730
Excluding transportation ²	272,253	271,595	272,645	0.2	-0.4	0.9	267,521	267,464	280,575	260,490	2.7	3,230,670	3,299,036
Excluding defense ²	313,382	314,480	318,569	-0.3	-1.3	1.3	304,408	310,235	330,400	300,841	1.2	3,762,297	3,815,229
With unfilled orders ²	118,401	121,356	122,706	-2.4	-1.1	0.4	119,441	119,307	124,790	123,205	-3.1	1,459,005	1,503,346
Durable goods industries ²	169,853	173,331	176,241	-2.0	-1.7	1.3	166,925	170,437	181,900	170,394	-2.0	2,084,862	2,100,142
Wood products.....	7,192	7,506	7,329	-4.2	2.4	2.4	6,321	7,107	7,648	6,433	-1.7	88,199	88,342
Nonmetallic mineral products.....	8,482	8,399	8,417	1.0	-0.2	-0.9	7,160	8,043	9,188	6,233	14.9	98,857	90,975
Primary metals.....	11,111	11,158	11,381	-0.4	-2.0	0.3	9,591	10,611	11,987	9,208	4.2	134,090	136,334
Iron and steel mills.....	5,340	5,306	5,342	0.6	-0.7	-0.7	4,601	4,926	5,635	4,121	11.6	61,923	60,481
Aluminum and nonferrous metals.....	4,531	4,592	4,730	-1.3	2.9	1.6	3,955	4,466	4,959	3,966	-0.3	56,343	59,282
Ferrous metal foundries.....	1,240	1,260	1,309	-1.6	-3.7	-0.2	1,035	1,219	1,393	1,121	-7.7	15,824	16,571
Fabricated metal products.....	20,978	21,059	21,330	-0.4	-1.3	0.0	19,116	20,496	22,538	18,824	1.6	252,552	253,528
Machinery.....	22,270	22,689	22,769	-1.8	-0.4	-0.1	22,083	21,345	22,663	22,159	-0.3	272,777	283,860
Farm machinery.....	1,627	1,587	1,583	2.5	0.3	2.7	1,283	1,174	1,394	1,174	9.3	17,942	15,746
Construction machinery.....	1,800	1,726	1,753	4.3	-1.5	5.4	1,655	1,467	1,630	1,427	16.0	20,341	20,738
Mining, oil field, and gas field machinery.....	743	695	695	6.9	0.0	3.5	838	653	672	891	-5.9	8,736	9,623
Industrial machinery.....	2,903	3,219	3,200	-9.8	0.6	2.6	3,403	2,928	3,146	3,579	-4.9	37,009	40,626
Photographic equipment.....	1,566	1,492	1,461	5.0	2.1	0.5	1,657	1,525	1,563	1,419	16.8	17,229	16,800
Ventilation, heating, air-conditioning, and refrigeration equipment.....	2,551	2,547	2,447	0.2	4.1	-4.9	2,381	2,371	2,385	2,498	-4.7	31,300	33,871
Metalworking machinery.....	1,932	2,273	2,114	-15.0	7.5	2.6	1,908	2,579	2,320	2,082	-8.4	24,928	26,939
Turbines, generators, and other power transmission equipment.....	2,102	2,339	2,776	-10.1	15.7	-8.1	2,223	2,218	2,785	2,785	-20.2	34,577	34,573
Material handling equipment.....	1,444	1,396	1,382	3.4	1.0	2.4	1,381	1,269	1,404	1,344	2.8	16,584	18,671
Computers and electronic products ²	25,744	26,085	26,356	-1.3	-1.0	1.0	31,358	26,093	25,019	33,802	-7.2	316,236	344,648
Electronic computers.....	3,985	3,930	4,380	1.4	-10.3	4.4	4,930	3,570	4,512	4,920	0.2	47,565	52,977
Computer storage devices.....	1,164	1,208	1,092	-3.6	10.6	-10.4	1,793	1,114	791	2,015	-11.0	14,520	14,063
Other peripheral equipment.....	1,272	1,537	1,633	-17.2	-5.9	22.5	1,846	1,586	1,361	2,347	21.3	17,666	20,237
Nondefense communications equipment.....	4,769	5,169	4,837	7.7	6.9	4.7	6,802	5,357	4,234	8,411	19.1	63,582	82,432
Defense communications equipment.....	292	342	328	-14.6	4.3	14.3	312	327	306	342	8.3	3,732	3,594
Audio and video equipment.....	784	768	704	2.1	9.1	3.2	862	953	805	1,127	23.5	8,837	9,037
Semiconductors ²	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electronic components.....	4,171	4,156	4,166	0.4	0.2	2.9	4,170	4,308	4,209	4,190	-0.5	50,164	55,619
Nondefense search and navigation equipment.....	760	714	810	6.4	11.9	2.3	825	714	762	828	-0.4	9,193	9,553
Defense search and navigation equipment.....	2,039	2,054	2,050	-0.7	0.2	2.4	2,452	2,096	2,020	2,287	7.2	23,716	22,535
Electromedical, measuring, and control instruments.....	5,924	5,594	5,730	5.9	-2.4	1.5	6,801	5,352	5,302	6,598	3.1	69,464	66,063
Electrical equipment, appliances, and components.....	8,921	9,104	9,014	2.0	1.0	1.3	9,083	8,958	8,893	9,438	-3.8	107,980	118,736
Electric lighting equipment.....	1,089	1,073	1,094	1.5	-1.9	4.7	1,255	1,089	1,073	1,248	0.6	12,955	13,045
Household appliances.....	2,157	2,159	2,100	-0.1	2.8	1.9	2,203	2,128	2,046	2,090	5.4	24,690	24,061
Electrical equipment.....	2,505	2,656	2,616	5.7	1.5	2.4	2,632	2,512	2,455	2,967	11.3	31,045	34,440
Batteries.....	467	494	484	-5.5	2.1	1.3	486	625	540	570	-14.7	6,106	7,006
Transportation equipment.....	48,704	51,268	53,694	5.0	-4.5	2.3	45,798	51,489	57,433	49,515	-7.5	625,084	598,694
Automobiles.....	7,526	7,681	8,003	2.0	-4.0	4.4	6,356	7,724	9,252	6,670	4.7	95,926	90,294
Light trucks and utility vehicles.....	9,713	9,727	10,892	-0.1	10.7	5.0	8,243	9,659	12,366	8,560	-3.7	122,196	111,944
Heavy duty trucks.....	1,026	953	1,317	7.7	27.6	3.4	889	896	1,539	867	2.5	13,827	13,049
Motor vehicle bodies, parts, and trailers.....	16,568	18,179	19,095	8.9	-4.8	2.4	13,772	17,979	20,781	14,794	6.9	219,064	208,175
Nondefense aircraft and parts.....	5,957	6,089	6,331	2.2	3.8	0.4	7,562	6,271	5,556	9,570	-21.0	77,245	90,977
Defense aircraft and parts.....	2,565	3,208	2,914	-20.0	10.1	6.9	3,251	3,489	2,797	3,218	1.0	35,395	28,102
Ships and boats.....	2,180	2,234	1,984	-2.4	12.6	9.7	2,118	2,185	2,065	1,571	34.8	22,370	19,365
Furniture and related products.....	5,700	5,500	5,533	3.6	0.6	0.7	5,468	5,455	5,774	5,273	3.7	67,246	69,216
Miscellaneous durable goods.....	10,751	10,563	10,418	1.8	1.4	4.7	10,947	10,840	10,757	9,509	15.1	121,841	115,809
Nondurable goods industries.....	151,104	149,532	150,098	1.1	-0.4	1.0	146,394	148,516	156,108	139,611	4.9	1,770,892	1,797,588
Food products.....	38,123	37,759	37,774	1.0	0.0	1.5	38,483	38,999	39,690	38,194	0.8	451,701	453,218
Grain and oilseed milling.....	4,096	4,061	4,088	0.9	-0.7	1.9	4,003	4,181	4,331	3,904	2.5	48,761	47,557
Dairy products.....	5,251	5,045	5,165	4.1	-2.3	3.5	5,226	5,192	5,096	5,510	-5.2	62,090	66,841
Meat, poultry, and seafood products.....	10,852	10,828	10,763	0.2	0.6	1.0	10,774	11,175	10,910	11,394	-5.4	132,001	134,690
Beverage and tobacco products.....	8,595	8,729	8,912	-1.5	-2.1	-0.1	8,216	8,542	8,912	9,253	-11.2	108,774	116,788
Beverages.....	5,936	5,756	5,760	3.1	0.1	0.9	5,557	5,569	5,760	5,317	4.5	68,733	66,560
Tobacco.....	2,659	2,973	3,152	-10.6	-5.7	-1.8	2,659	2,973	3,152	3,936	-32.4	40,041	50,228
Textile mills.....	3,513	3,592	3,523	-2.2	2.0	1.7	3,242	3,482	3,632	3,203	1.2	42,662	44,932
Textile products.....	3,201	3,183	3,111	0.6	2.3	0.8	2,813	3,043	3,146	2,579	9.1	36,968	34,484
Apparel.....	4,970	4,880	4,597	1.8	6.2	-1.8	4,136	4,890	5,179	3,919	5.5	56,860	57,678
Leather and allied products.....	666	728	720	-8.5	1.1	-4.5	768	825	780	789	-2.7	8,380	8,685
Paper products.....	12,927	12,705	12,989	1.7	-2.2	0.1	12,583	12,434	13,478	11,676	7.8	151,215	153,378
Pulp, paper, and paperboard mills.....	5,736	5,659	5,941	1.4	-4.7	-0.1	5,524	5,553	6,150	5,259	5.0	69,264	71,674
Paperboard containers.....	3,663	3,674	3,790	-0.3	-3.1	-0.8	3,437	3,526	4,038	3,295	4.3	44,652	43,668
Printing.....	8,083	8,040	8,125	0.5	-1.0	0.7	8,251	8,526	8,862	8,075	2.2	95,976	98,760
Petroleum and coal products.....	20,007	18,786	19,388	6.5	-3.1	3.4	19,064	18,786	20,409	15,481	23.1	218,930	220,959
Petroleum refineries.....	18,496	17,259	17,856	7.2	-3.3	4.0	17,950	17,372	18,670	14,496	23.8	200,378	202,757
Basic chemicals.....	35,816	36,019	35,861	-0.6	0.4	0.1	35,309	34,696	36,183	33,674	4.9	420,950	434,150
Pesticides, fertilizers, and other agricultural chemicals.....	1,752	1,681	1,610	4.2	4.4	-4.8	1,387	1,147	1,079	1,254	10.6	20,188	20,525
Pharmaceuticals and medicines.....	8,504	8,650	8,881	-1.7	-2.6	2.8	9,231	8,748	9,399	10,083	-8.4	105,851	117,902
Paints, coatings, and adhesives.....	2,433	2,398	2,440	1.5	-1.7	0.3	2,119	2,153	2,408	2,018	5.0	28,479	27,996
Plastics and rubber products.....	15,203	15,111	15,098	0.6	0.1	1.6	13,529	14,293	15,837	12,768	6.0	178,476	174,556

² Preliminary¹ Revised

NA Not available

¹ Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations.² See footnote at end of Table 2

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

[Millions of Dollars]

Industry	Seasonally Adjusted						Not Seasonally Adjusted ¹						
	Monthly			Percent Change			Monthly				Percent Change Dec. 02/01	Year to date	
	Dec. 2002 ^b	Nov. 2002 ^c	Oct. 2002	Nov. - Dec.	Oct. - Nov.	Sept. - Oct.	Dec. 2002 ^b	Nov. 2002 ^c	Oct. 2002	Dec. 2001		2002 ^b	2001
All manufacturing industries ²	320,614	319,427	321,993	0.4	-0.8	1.4	316,306	314,775	332,064	309,678	2.1	3,826,022	3,856,759
Excluding transportation ²	271,466	268,914	271,817	0.9	-1.1	1.3	266,890	264,682	279,060	259,387	2.9	3,208,401	3,264,303
Excluding defense ²	312,621	312,113	316,465	0.2	-1.4	2.5	302,836	307,708	327,173	297,671	1.7	3,729,655	3,764,402
With unfilled orders ²	118,058	117,920	118,360	0.1	-0.4	0.9	122,428	115,129	118,846	122,878	-0.4	1,429,273	1,462,375
Durable goods industries ²	169,510	169,895	171,895	-0.2	-1.2	1.7	169,912	166,259	175,956	170,067	-0.1	2,055,130	2,059,171
Primary metals.....	10,782	10,612	11,210	1.6	-5.3	1.2	9,583	9,950	11,463	9,457	1.3	132,303	134,090
Iron and steel mills.....	5,043	4,936	5,206	2.2	-5.2	-3.9	4,490	4,462	5,185	4,385	2.4	61,808	59,367
Aluminum and nonferrous metals.....	4,555	4,420	4,680	3.1	-5.6	1.9	4,064	4,272	4,851	3,884	4.6	54,918	58,170
Ferrous metal foundries.....	1,184	1,256	1,324	-5.7	-5.1	-0.7	1,029	1,216	1,427	1,188	-13.4	15,577	16,553
Fabricated metal products.....	20,482	20,618	21,449	-0.7	-3.9	1.7	18,265	19,963	22,140	18,247	0.1	249,681	249,161
Machinery.....	21,987	21,957	22,519	0.1	2.5	2.4	21,211	20,567	22,441	21,465	-1.2	263,188	277,308
Construction machinery.....	1,864	1,692	1,784	10.2	5.2	14.6	1,826	1,487	1,692	1,486	22.9	20,283	20,127
Mining, oil field, and gas field machinery.....	625	686	713	-8.9	-3.8	-3.4	720	644	690	787	-8.5	8,560	9,783
Industrial machinery.....	3,021	2,996	3,273	0.8	-8.5	10.9	3,124	2,693	3,528	2,956	5.7	37,092	37,336
Photographic equipment.....	1,618	1,517	1,491	6.7	1.7	1.6	1,660	1,548	1,597	1,353	22.7	17,390	16,635
Ventilation, heating, air-conditioning, and refrigeration equipment.....	2,541	2,499	2,602	1.7	4.0	7.2	2,297	2,305	2,420	2,327	-1.3	31,050	33,372
Metalworking machinery.....	1,953	2,289	2,208	-14.7	3.7	5.0	1,793	2,593	2,408	1,839	-2.5	24,753	25,476
Turbines, generators, and other power transmission equipment.....	1,804	1,877	2,043	-3.9	-8.1	-4.1	1,934	1,770	2,043	3,605	-46.4	25,919	35,486
Material handling equipment.....	1,454	1,378	1,352	5.5	1.9	-11.6	1,478	1,211	1,327	1,325	11.5	16,300	18,305
Computers and electronic products ²	26,087	25,279	25,521	3.2	-0.9	2.7	32,903	25,439	24,185	34,236	-3.9	309,563	328,661
Electronic computers.....	4,945	3,947	4,413	25.3	10.6	8.7	5,582	3,954	4,565	4,480	24.6	48,464	52,397
Nondefense communications equipment.....	3,834	4,772	4,875	19.7	2.1	74.6	6,212	5,210	4,304	8,242	24.6	59,091	73,760
Defense communications equipment.....	326	261	427	25.7	38.9	24.5	348	246	405	519	-32.9	3,638	3,488
Semiconductors ²	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electronic components.....	4,700	3,928	4,177	4.4	6.0	43.1	4,004	3,779	4,195	4,032	3.7	47,320	50,522
Nondefense search and navigation equipment.....	754	728	920	3.6	20.9	28.7	823	727	845	753	9.3	8,843	8,465
Defense search and navigation equipment.....	2,344	2,047	746	14.5	174.4	78.4	3,942	1,975	512	3,171	24.3	22,718	21,740
Electromedical, measuring, and control instruments.....	5,978	5,470	5,908	9.3	7.4	-0.4	6,926	5,179	6,685	6,813	1.1	70,169	66,414
Electron equipment, appliances, and components.....	8,913	8,880	8,957	0.4	0.9	1.6	8,936	8,734	8,966	8,090	1.7	107,272	116,363
Electrical lighting equipment.....	1,079	1,051	1,073	2.7	2.1	16.1	1,270	1,017	1,048	1,249	1.7	13,144	12,868
Household appliances.....	2,205	1,994	2,134	10.6	6.6	3.8	2,238	2,077	2,094	2,157	3.8	24,363	24,095
Electrical equipment.....	2,484	1,572	2,466	3.4	4.3	2.7	2,496	2,416	2,433	2,669	-6.5	30,257	34,109
Transportation equipment.....	49,148	50,613	50,176	2.7	0.7	1.8	49,418	50,093	53,004	50,291	1.7	617,621	592,456
Motor vehicle bodies, parts, and trailers.....	16,588	16,353	18,848	9.0	1.0	2.4	14,189	18,296	20,269	15,192	6.7	219,061	206,640
Non-defense aircraft and parts.....	8,650	5,636	4,641	22.2	21.4	1.7	8,334	5,498	3,461	8,357	0.6	55,892	75,319
Defense aircraft and parts.....	2,654	2,922	2,625	-9.2	11.3	8.1	4,508	2,729	1,746	3,387	33.1	40,212	36,015
Ships and boats.....	1,816	1,736	1,809	4.8	-3.3	15.7	2,332	1,756	2,262	1,822	28.0	22,794	21,505
Furniture and related products.....	5,683	5,519	5,498	3.0	0.4	1.5	5,167	5,474	5,743	4,974	3.9	66,318	68,357
Nondurable goods industries.....	151,104	149,532	150,098	1.1	-0.4	1.0	146,394	148,516	156,108	139,611	4.9	1,770,892	1,797,588

^a Preliminary ^b Revised NA Not available¹ Shipments and new orders are the totals for the period and are adjusted for trading day and calendar month variations.² 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.³ 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 Dec. 02/01
	Dec. 2002 ^b	Nov. 2002 ^c	Oct. 2002	Nov. - Dec.	Oct. - Nov.	Sep. - Oct.	Dec. 2002 ^b	Nov. 2002 ^c	Oct. 2002	Dec. 2001	
All manufacturing industries ¹	477,626	477,969	481,405	0.1	-0.7	-0.9	472,226	469,239	473,417	501,958	-5.9
Excluding transportation ¹	229,583	230,370	233,051	-0.3	-1.2	-0.4	226,058	226,689	229,471	248,327	-9.0
Excluding defense ¹	333,734	334,495	336,862	-0.2	-0.7	-0.6	328,618	330,190	332,719	361,260	9.0
Durable goods industries ¹	477,626	477,969	481,405	-0.1	-0.7	0.9	472,226	469,239	473,417	501,958	-5.9
Primary metals.....	14,898	15,227	15,773	-2.2	-3.5	-1.1	14,316	14,324	14,985	16,103	-11.1
Iron and steel mills.....	8,268	8,565	8,935	-3.5	-4.1	-1.5	7,790	7,901	8,365	7,905	-1.5
Aluminum and nonferrous metals.....	4,451	4,427	4,599	0.5	-3.7	-1.1	4,357	4,248	4,442	5,782	-24.6
Ferrous metal foundries.....	2,179	2,235	2,239	-2.5	-0.2	0.7	2,169	2,175	2,178	2,416	10.2
Fabricated metal products.....	37,871	38,367	38,808	-1.3	-1.1	0.3	36,938	37,789	38,322	39,809	-7.2
Machinery.....	44,836	45,119	45,851	0.6	-1.6	-0.5	43,825	44,697	45,475	53,414	-18.0
Construction machinery.....	2,116	2,052	2,086	3.1	-1.6	1.5	2,085	1,914	1,894	2,143	-2.7
Mining, oil field, and gas field machinery.....	1,023	1,141	1,150	-10.3	-0.8	1.6	1,023	1,141	1,150	1,199	-14.7
Industrial machinery.....	9,000	8,882	9,105	1.3	-2.4	0.8	8,642	8,921	9,156	8,559	1.0
Photographic equipment.....	1,027	975	950	5.3	2.6	3.3	977	974	951	816	19.7
Ventilation, heating, air-conditioning, and refrigeration equipment.....	4,365	4,375	4,423	-0.2	-1.1	3.6	4,107	4,191	4,257	4,357	5.7
Metalworking machinery.....	3,840	3,819	3,803	0.5	0.4	2.5	3,674	3,789	3,775	3,849	-4.5
Turbines, generators, and other power transmission equipment.....	9,474	9,772	10,234	3.0	-4.5	-6.7	9,567	9,856	10,304	18,225	-47.5
Material handling equipment.....	5,105	5,095	5,113	0.2	-0.4	-0.6	5,080	4,983	5,041	5,364	-5.3
Computers and electronic products.....	107,733	107,390	108,196	0.3	0.7	-0.8	107,278	105,733	106,387	113,951	5.9
Electronic computers.....	7,829	6,869	6,852	14.0	0.2	0.5	7,703	7,051	6,667	6,804	13.2
Nondefense communications equipment.....	35,402	36,337	36,734	-2.6	-1.1	0.1	35,197	35,787	35,934	39,688	11.3
Defense communications equipment.....	2,471	2,435	2,516	1.5	3.2	4.1	2,471	2,435	2,516	2,565	3.7
Semiconductors.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electronic components.....	14,234	14,305	14,533	0.5	-1.6	0.1	13,972	14,138	14,667	16,316	-14.4
Nondefense search and navigation equipment.....	4,125	4,131	4,117	-0.1	0.3	2.7	4,075	4,077	4,064	4,425	-7.9
Defense search and navigation equipment.....	30,402	30,097	30,104	1.0	0.0	4.2	30,682	29,192	29,313	31,680	3.2
Electromedical, measuring, and control instruments.....	13,270	13,216	13,340	0.4	0.9	1.4	13,178	13,053	13,226	12,473	5.7
Electrical equipment, appliances, and components.....	14,466	14,474	14,698	0.1	-1.5	0.4	14,168	14,315	14,539	14,876	-4.0
Electric lighting equipment.....	1,630	1,640	1,662	0.6	-1.3	-1.2	1,575	1,560	1,632	1,386	13.6
Household appliances.....	967	919	1,084	5.2	15.2	3.2	952	917	968	1,279	-25.6
Electrical equipment.....	8,264	8,285	8,369	0.3	1.0	1.8	8,149	8,285	8,381	8,937	6.6
Transportation equipment.....	248,043	247,599	248,354	0.2	0.3	1.4	246,168	242,550	243,946	253,631	-2.9
Motor vehicle bodies, parts, and trailers.....	12,305	12,287	12,113	0.1	1.4	2.0	12,180	11,783	11,464	12,193	0.1
Nondefense aircraft and parts.....	113,176	112,243	112,896	0.8	0.4	1.5	111,990	111,218	111,991	123,343	9.2
Defense aircraft and parts.....	57,244	57,155	57,441	0.2	0.5	0.5	56,100	54,843	55,603	51,283	9.4
Ships and boats.....	20,672	21,036	21,534	-1.7	-2.3	-0.8	20,996	20,782	21,211	20,572	2.1
Furniture and related products.....	5,326	5,343	5,324	0.3	0.4	-0.7	5,080	5,381	5,362	6,008	-15.4

Preliminary ¹ Revised NA Not available.

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.

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 Dec. 02/01
	Dec. 2002 ^a	Nov. 2002 ^a	Oct. 2002	Nov. - Dec.	Oct. - Nov.	Sep. - Oct.	Dec. 2002 ^a	Nov. 2002 ^a	Oct. 2002	Dec. 2001	
All manufacturing industries.....	430,241	428,220	429,074	0.5	-0.2	-0.1	420,636	430,896	433,471	429,097	2.0
Excluding transportation.....	357,454	358,092	358,176	0.2	0.0	-0.1	349,987	359,650	360,903	356,885	-1.9
Excluding defense.....	407,523	406,378	407,134	0.3	-0.2	0.0	398,521	408,960	411,279	407,086	-2.1
With unfilled orders.....	215,971	213,345	213,786	1.2	-0.2	-0.1	210,571	214,791	215,580	220,024	-4.3
Durable goods industries.....	265,030	262,487	263,040	1.0	-0.2	-0.2	258,021	264,149	265,068	267,754	-3.6
Wood products.....	9,267	9,296	9,299	-0.3	0.0	-0.2	9,193	9,400	9,428	9,203	-0.1
Nonmetallic mineral products.....	8,968	8,938	8,932	0.3	0.1	0.4	8,828	8,722	8,683	8,980	-1.7
Primary metals.....	18,722	18,636	18,476	0.5	0.9	0.4	18,994	18,813	18,592	19,308	-1.6
Iron and steel mills.....	10,947	10,892	10,733	0.5	1.5	0.9	11,226	11,067	10,869	10,814	3.8
Aluminum and nonferrous metals.....	6,010	6,013	6,035	0.0	-0.4	-0.7	6,025	6,035	6,039	6,717	-10.3
Ferrous metal foundries.....	1,765	1,731	1,708	2.0	1.3	0.7	1,743	1,711	1,684	1,777	-1.9
Fabricated metal products.....	30,783	30,864	30,870	0.3	0.0	0.1	30,121	30,594	30,660	31,055	-3.0
Machinery.....	44,891	44,440	44,472	1.0	0.1	-0.4	43,560	44,791	44,686	45,764	-4.8
Farm machinery.....	2,039	2,084	2,042	2.2	2.1	1.5	2,096	2,063	1,913	2,065	1.5
Construction machinery.....	3,618	3,814	3,854	5.1	-1.0	-0.5	3,612	3,826	3,825	3,894	-7.2
Mining, oil field, and gas field machinery.....	2,196	2,203	2,194	0.3	0.4	1.8	2,107	2,205	2,203	2,195	4.0
Industrial machinery.....	7,679	7,620	7,607	0.8	0.2	-1.0	7,477	7,732	7,580	7,859	-4.9
Photographic equipment.....	2,069	1,932	1,926	7.1	0.3	0.8	1,927	1,974	1,988	1,857	3.8
Ventilation, heating, air conditioning, and refrigeration equipment.....	4,293	4,238	4,168	1.3	1.7	1.8	4,000	4,207	4,159	3,851	3.9
Metalworking machinery.....	5,287	5,252	5,270	0.7	0.3	0.2	4,990	5,176	5,379	5,349	5.7
Turbines, generators, and other power transmission equipment.....	4,843	4,563	4,662	6.1	-2.1	-1.4	4,584	4,761	4,814	5,152	11.0
Material handling equipment.....	2,470	2,530	2,565	2.4	-1.4	1.9	2,449	2,530	2,524	2,680	8.6
Computers and electronic products.....	42,075	42,556	42,430	1.1	0.3	0.2	40,253	43,009	42,610	44,058	8.6
Electronic computers.....	3,245	3,245	3,048	0.0	6.5	5.2	3,063	3,374	2,963	2,864	8.2
Computer storage devices.....	1,133	1,195	1,260	5.2	5.2	0.2	988	1,300	1,242	1,275	22.5
Other peripheral equipment.....	2,706	2,655	2,705	1.9	1.8	4.5	2,436	2,714	2,756	2,580	5.6
Nondefense communications equipment.....	7,927	8,453	8,322	6.2	1.6	0.5	7,551	8,576	8,350	10,286	26.6
Defense communications equipment.....	846	810	769	4.4	5.3	4.9	846	810	769	685	23.5
Radio and video equipment.....	1,153	1,185	1,196	2.7	0.9	3.0	1,042	1,268	1,350	933	11.7
Personal computers.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electronic components.....	8,914	9,091	8,990	1.9	1.1	2.7	8,648	8,977	8,953	9,154	3.5
Navigation search and navigation equipment.....	3,109	3,086	3,122	0.5	-1.2	3.1	3,001	3,093	3,113	2,874	4.4
Defense search and navigation equipment.....	3,281	3,177	3,335	3.3	4.7	0.7	3,155	3,177	3,359	3,259	3.2
Environmental measuring and control instruments.....	9,360	9,260	9,296	1.1	0.4	0.5	9,127	9,323	9,350	9,701	5.9
Electrical equipment, appliances, and components.....	12,376	12,503	12,577	1.0	-0.6	-1.3	11,928	12,478	12,551	13,140	9.2
Electric lighting equipment.....	1,484	1,473	1,473	0.7	0.0	1.1	1,407	1,474	1,480	1,436	2.6
Household appliances.....	2,083	2,190	2,122	0.8	-1.0	-1.7	1,913	2,088	2,108	1,979	3.3
Electrical equipment.....	4,116	4,177	4,214	1.4	0.9	1.8	4,087	4,248	4,245	4,603	11.2
Batteries.....	627	654	677	4.1	3.4	3.0	567	650	698	676	16.1
Transportation equipment.....	72,787	70,128	70,856	3.8	-1.1	-0.1	70,649	71,246	72,568	72,212	2.2
Automobiles.....	1,710	1,772	1,762	3.5	0.6	1.6	1,546	1,753	1,740	1,539	0.5
Light trucks and utility vehicles.....	2,052	1,983	1,973	3.5	0.5	0.1	1,835	1,998	2,056	1,577	16.4
Heavy duty trucks.....	906	896	911	0.3	-1.4	9.5	849	907	934	815	4.2
Motor vehicle bodies, parts, and trailers.....	15,998	15,910	16,027	0.6	-0.7	0.1	16,080	16,039	16,291	15,774	1.9
Nondefense aircraft and parts.....	29,994	28,155	28,741	6.5	2.0	0.1	28,875	29,035	29,771	30,808	6.3
Defense aircraft and parts.....	11,213	10,736	10,810	4.4	-0.7	-1.0	10,841	10,815	10,980	10,506	3.2
Ships and boats.....	2,931	2,668	2,628	9.9	1.5	-1.4	2,866	2,692	2,655	2,492	15.0
Furniture and related products.....	7,009	7,050	6,988	0.6	0.9	0.5	6,882	7,029	6,979	6,987	1.5
Miscellaneous durable goods.....	18,152	18,076	18,098	0.4	-0.1	0.4	17,613	18,067	18,311	17,047	3.3
Non-durable goods industries.....	165,211	165,733	166,034	0.3	0.2	0.1	162,615	166,747	168,403	161,343	1.8
Food products.....	32,025	32,221	32,121	0.6	0.3	0.1	32,059	33,633	34,199	31,373	2.2
Grain and oilseed milling.....	3,500	3,500	3,461	0.0	1.1	0.4	3,708	3,680	3,679	3,532	1.3
Dairy products.....	3,483	3,429	3,350	1.6	2.4	0.4	3,220	3,253	3,345	3,197	0.7
Meat, poultry, and seafood products.....	6,247	6,262	6,269	0.2	-0.1	2.0	6,068	6,371	6,444	5,796	4.7
Beverage and tobacco products.....	14,181	14,139	14,359	0.3	1.5	1.4	14,423	14,448	14,771	14,561	1.1
Beverages.....	9,292	9,103	9,250	2.1	1.6	1.3	9,290	9,222	9,517	9,014	3.1
Tobacco.....	4,889	5,036	5,109	-2.9	-1.4	-1.6	5,133	5,226	5,254	5,567	7.8
Textile mills.....	4,879	4,859	4,925	0.4	-1.3	-0.9	4,733	4,790	4,895	5,400	-12.4
Textile products.....	4,510	4,493	4,537	0.4	-1.0	-0.7	4,309	4,386	4,504	4,275	0.8
Apparel.....	7,434	7,434	7,475	0.0	0.5	0.5	7,206	7,129	7,366	7,864	8.4
Leather and allied products.....	1,589	1,577	1,581	0.8	0.3	4.6	1,527	1,572	1,596	1,450	5.3
Paper products.....	14,446	14,527	14,503	0.6	0.2	0.6	14,393	14,477	14,326	14,769	-2.5
Pulp, paper, and paperboard mills.....	6,172	6,206	6,175	0.5	0.5	-0.5	6,180	6,154	6,007	6,659	7.2
Paperboard containers.....	4,146	4,157	4,164	0.3	0.2	2.2	4,149	4,153	4,174	4,082	1.6
Printing.....	5,877	5,971	5,977	1.6	0.1	3.1	5,465	6,010	6,200	5,631	2.9
Petroleum and coal products.....	13,468	13,024	13,273	3.4	-1.9	0.6	12,519	12,897	13,596	11,060	13.2
Petroleum refineries.....	12,042	11,590	11,823	3.9	2.0	0.7	11,232	11,503	12,171	9,711	15.7
Basic chemicals.....	49,324	49,945	49,738	1.2	0.4	0.3	48,677	50,040	49,633	48,469	0.4
Pesticides, fertilizers, and other agricultural chemicals.....	2,388	2,440	2,507	2.1	2.7	8.8	2,467	2,413	2,317	2,628	-6.1
Pharmaceuticals and medicines.....	17,595	18,254	17,894	-3.6	2.0	-0.9	17,278	18,529	18,150	16,731	3.3
Paints, coatings, and adhesives.....	2,932	2,948	2,935	0.5	0.4	0.8	2,820	2,861	2,906	2,784	1.3
Plastics and rubber products.....	17,478	17,543	17,545	-0.4	0.0	0.4	17,304	17,365	17,317	16,469	5.1

^a Preliminary ^r Revised NA Not available.

¹ See footnote at end of Table 3.

² 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 Series¹

(Millions of Dollars)

Industry	Seasonally Adjusted						Not Seasonally Adjusted ²						
	Monthly			Percent Change			Monthly				Percent Change Dec. 02/01	Year to date	
	Dec. 2002 ³	Nov. 2002 ⁴	Oct. 2002	Nov. - Dec.	Oct. - Nov.	Sept. - Oct.	Dec. 2002 ³	Nov. 2002 ⁴	Oct. 2002	Dec. 2001		2002 ⁵	2001
SHIPMENTS													
All manufacturing industries ⁵	320,957	322,863	326,339	-0.6	-1.1	1.2	313,319	318,953	338,008	310,005	1.1	3,855,754	3,897,730
Construction materials and supplies.....	35,986	36,111	36,144	-0.3	-0.1	-0.2	31,885	34,493	38,252	30,405	4.9	429,181	420,821
Information technology.....	25,842	26,143	26,371	-1.2	-0.9	0.4	31,352	25,914	25,152	33,594	-6.7	316,485	346,013
Computers and related products.....	6,421	6,675	7,105	-3.8	-6.1	5.3	8,569	6,270	6,664	9,282	-7.7	79,751	87,277
Motor vehicle and parts.....	34,833	36,540	39,307	-4.7	-7.0	3.6	29,260	36,258	43,938	30,891	-5.3	451,013	423,462
Capital goods.....	61,501	63,077	63,667	-2.5	-0.9	0.9	68,767	61,650	61,709	73,444	-6.4	757,808	802,429
Nondefense capital goods ³	55,221	56,031	57,057	-1.4	-1.8	1.2	61,506	54,281	55,290	65,466	-6.0	679,540	730,149
Excluding aircraft.....	52,468	53,154	53,890	-1.3	-1.4	1.4	57,750	51,275	52,711	59,400	-2.8	640,828	680,111
Defense capital goods ⁴	6,280	7,046	6,610	-10.9	6.6	1.3	7,261	7,369	6,419	7,978	-9.0	78,268	72,280
Consumer goods.....	125,372	123,720	125,881	1.3	-1.7	1.7	121,291	125,096	133,304	117,839	2.9	1,482,997	1,488,780
Consumer durable goods.....	33,085	33,047	34,361	0.1	-3.8	3.6	30,102	33,318	37,610	29,813	1.0	402,126	381,163
Consumer nondurable goods.....	92,287	90,673	91,520	1.8	-0.9	1.0	91,189	91,778	95,694	88,026	3.6	1,080,871	1,107,617
NEW ORDERS													
All manufacturing industries ⁵	320,614	319,427	321,993	0.4	-0.8	1.4	316,306	314,775	332,064	309,678	2.1	3,826,022	3,856,759
Construction materials and supplies.....	35,759	35,949	36,442	0.5	1.4	0.3	31,279	34,108	38,004	29,766	5.1	428,506	416,316
Information technology.....	26,283	25,637	25,635	2.5	0.0	-2.1	33,005	25,807	24,458	34,002	-2.9	312,535	332,379
Computers and related products.....	7,381	6,692	7,138	10.3	6.2	3.3	9,221	6,654	6,717	8,842	4.3	80,650	86,697
Motor vehicle and parts.....	34,851	36,714	39,060	5.1	6.0	3.6	29,657	36,577	43,456	31,284	5.2	451,000	421,927
Capital goods.....	62,866	60,483	59,476	3.9	1.7	1.6	73,321	59,131	58,032	73,539	0.3	734,030	775,536
Nondefense capital goods ³	55,256	54,558	55,213	2.6	1.2	4.4	61,573	53,227	53,884	62,899	-2.1	656,296	694,633
Excluding aircraft.....	51,745	51,914	53,517	0.3	3.0	5.4	56,359	50,454	52,776	57,509	2.0	626,250	659,443
Defense capital goods ⁴	6,910	5,925	4,263	16.6	39.0	-43.5	11,748	5,904	4,148	10,640	10.4	77,734	80,903
Consumer goods.....	125,304	123,463	126,030	1.5	2.0	1.6	121,052	125,027	133,417	117,896	2.7	1,481,585	1,486,072
Consumer durable goods.....	33,017	32,790	34,510	0.7	5.0	3.3	29,863	33,249	37,723	29,870	0.0	400,714	378,455
Consumer nondurable goods.....	92,287	90,673	91,520	1.8	0.9	1.0	91,189	91,778	95,694	88,026	3.6	1,080,871	1,107,617
UNFILLED ORDERS													
All manufacturing industries ⁵	477,626	477,965	481,405	0.1	0.7	0.5	472,226	469,239	473,417	501,958	5.9	(X)	(X)
Construction materials and supplies.....	32,153	32,390	32,542	0.7	-0.5	0.9	31,668	31,674	32,059	31,743	2.1	(X)	(X)
Information technology.....	18,131	9,690	38,196	0.5	0.5	0.7	97,775	96,123	96,229	101,725	-3.9	(X)	(X)
Computers and related products.....	1,829	6,669	4,852	14.0	0.2	0.5	7,703	7,057	6,667	6,804	13.2	(X)	(X)
Motor vehicle and parts.....	12,405	12,287	12,113	0.1	1.4	2.0	12,180	11,783	11,464	12,193	0.1	(X)	(X)
Capital goods.....	332,629	331,260	333,854	0.4	0.8	-1.2	331,660	327,106	329,625	355,438	6.7	(X)	(X)
Nondefense capital goods ³	209,222	208,487	209,960	0.4	0.7	-0.9	207,944	207,477	208,531	230,788	10.1	(X)	(X)
Excluding aircraft.....	124,007	124,730	125,970	0.6	-1.0	-0.3	122,329	123,720	124,541	136,907	10.6	(X)	(X)
Defense capital goods ⁴	123,403	122,773	123,894	0.5	0.9	1.9	124,116	119,629	121,094	124,650	0.4	(X)	(X)
Consumer goods.....	11,882	11,950	12,207	0.6	2.1	1.2	11,745	11,984	12,053	13,157	10.7	(X)	(X)
Consumer durable goods.....	11,882	11,950	12,207	0.6	2.1	1.2	11,745	11,984	12,053	13,157	-10.7	(X)	(X)
TOTAL INVENTORIES													
All manufacturing industries ⁵	430,241	428,220	429,074	0.5	-0.2	0.1	420,636	430,896	433,471	429,097	-2.0	(X)	(X)
Construction materials and supplies.....	45,779	45,709	45,533	0.2	0.4	0.6	44,700	45,328	45,256	44,839	0.3	(X)	(X)
Information technology.....	39,294	39,496	39,457	0.5	0.1	-0.8	37,486	40,024	39,665	41,207	9.0	(X)	(X)
Computers and related products.....	7,084	7,095	7,013	0.2	1.2	-0.4	6,487	7,388	6,961	6,739	3.7	(X)	(X)
Motor vehicle and parts.....	20,666	20,563	20,673	0.5	-0.5	0.2	20,310	20,697	21,023	19,705	3.1	(X)	(X)
Capital goods.....	131,599	130,053	130,466	1.2	0.3	0.8	127,201	131,763	131,866	136,653	-6.9	(X)	(X)
Nondefense capital goods ³	12,556	11,640	112,027	0.8	0.2	-0.8	108,566	113,414	113,356	118,137	-8.1	(X)	(X)
Excluding aircraft.....	89,791	89,890	89,916	-0.1	0.0	0.8	86,715	90,801	90,277	93,687	-7.4	(X)	(X)
Defense capital goods ⁴	19,043	18,413	18,439	3.4	0.1	0.5	18,635	18,349	18,510	18,516	0.6	(X)	(X)
Consumer goods.....	127,022	127,413	127,478	0.3	-0.1	0.4	124,402	128,901	130,606	122,112	1.9	(X)	(X)
Consumer durable goods.....	26,687	26,687	26,702	0.0	-0.1	-0.1	25,488	26,706	27,027	24,708	3.2	(X)	(X)
Consumer nondurable goods.....	100,335	100,726	100,776	0.4	0.0	-0.4	98,914	102,195	103,579	97,404	1.6	(X)	(X)

³ Preliminary ⁴ Revised X Not Applicable

¹ Topical series are regroupings of the separate industry categories.

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

³ 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.

⁴ 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.

⁵ 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.

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

Billions of Dollars

Industry	Seasonally Adjusted						Not Seasonally Adjusted				
	Monthly			Percent Change			Monthly				Percent Change Dec. 02/01
	Dec. 2002 ^a	Nov. 2002 ^f	Oct. 2002	Nov. - Dec.	Oct. - Nov.	Sep. - Oct.	Dec. 2002 ^a	Nov. 2002 ^f	Oct. 2002	Dec. 2001	
MATERIALS AND SUPPLIES											
All manufacturing industries ¹	138,468	139,407	139,949	-0.7	-0.4	-0.1	138,167	140,045	140,600	144,699	-4.5
Durable goods industries ¹	83,255	83,486	84,307	-0.3	-1.0	-0.2	83,006	84,229	84,861	88,726	-6.4
Wood products.....	3,399	3,431	3,491	-0.9	-1.7	-1.1	3,621	3,755	3,752	3,848	-5.9
Nonmetallic mineral products.....	3,238	3,222	3,258	0.5	-1.1	0.4	3,240	3,232	3,286	3,372	-3.9
Primary metals.....	6,201	6,159	6,205	0.7	-0.7	0.9	6,479	6,368	6,396	6,475	0.1
Fabricated metal products.....	10,670	10,762	10,839	-0.9	-0.7	0.4	10,668	10,617	10,715	10,523	1.4
Machinery.....	14,724	14,630	14,806	0.6	-1.2	0.1	14,398	14,624	14,852	16,200	-11.1
Computers and electronic products ¹	15,059	15,394	15,509	-2.2	-0.7	0.8	14,766	15,476	15,343	17,382	-15.1
Electrical equipment, appliances, and components.....	4,383	4,442	4,434	-1.3	0.2	-1.2	4,349	4,471	4,455	4,935	-11.9
Transportation equipment.....	16,369	16,325	16,541	0.3	-1.3	-1.0	16,397	16,611	16,843	16,956	-3.3
Furniture and related products.....	2,981	2,948	2,929	1.1	0.6	-2.6	2,975	2,920	2,896	3,067	-3.0
Miscellaneous products.....	6,231	6,173	6,295	0.9	-1.9	-1.2	6,113	6,155	6,323	5,968	2.4
Non-durable goods industries.....	55,213	55,921	55,642	-1.3	0.5	0.0	55,161	55,816	55,739	55,973	-1.5
Food products.....	10,133	9,966	9,959	1.7	0.1	1.5	10,185	10,056	10,202	10,212	-0.3
Beverage and tobacco products.....	5,896	6,049	6,010	-2.5	0.6	1.4	6,114	5,897	5,874	6,068	0.8
Textiles.....	1,420	1,431	1,421	-0.8	0.7	2.3	1,420	1,421	1,419	1,522	-6.7
Textile products.....	1,489	1,501	1,531	0.8	2.0	0.5	1,440	1,466	1,522	1,480	2.7
Apparel.....	1,651	1,714	1,706	3.7	0.5	0.7	1,651	1,678	1,690	1,790	7.8
Leather and allied products.....	356	365	363	-2.5	0.6	7.7	348	360	361	346	0.6
Paper products.....	7,040	7,040	7,096	0.0	-0.8	1.4	7,098	7,043	7,070	7,205	-1.5
Printing.....	2,444	2,496	2,466	-2.1	1.2	2.4	2,364	2,539	2,551	2,429	2.7
Petroleum and coal products.....	3,036	3,152	3,087	-3.7	2.1	0.3	2,850	3,113	3,131	3,018	5.6
Basic chemicals.....	14,964	15,373	15,078	2.7	2.0	-1.0	14,915	15,441	15,037	15,303	2.5
Plastics and rubber products.....	6,784	6,834	6,925	-0.7	1.3	0.6	6,776	6,802	6,882	6,600	2.7
WORK IN PROCESS											
All manufacturing industries ¹	128,652	126,420	126,851	1.8	0.3	0.4	124,382	128,457	129,591	127,578	2.5
Durable goods industries ¹	99,880	97,231	97,452	2.7	0.2	0.5	96,391	98,492	98,997	100,982	4.5
Wood products.....	2,097	2,077	2,061	1.0	0.8	0.8	2,040	2,060	2,078	1,866	9.3
Nonmetallic mineral products.....	1,161	1,150	1,147	1.0	0.3	0.6	1,104	1,096	1,098	1,109	-0.5
Primary metals.....	6,250	6,291	6,199	0.7	1.5	0.2	6,263	6,317	6,224	6,480	-3.3
Fabricated metal products.....	9,835	9,609	9,759	0.3	0.5	0.4	9,531	9,828	9,803	10,047	-5.1
Machinery.....	14,114	13,950	13,906	1.2	0.3	-1.7	13,442	14,218	14,172	14,099	4.7
Computers and electronic products ¹	17,547	17,556	17,367	0.1	1.1	1.0	16,576	17,702	17,454	17,005	2.5
Electrical equipment, appliances, and components.....	2,834	2,758	2,758	2.8	0.0	1.6	2,695	2,715	2,757	2,955	8.8
Transportation equipment.....	41,698	39,207	39,774	6.4	1.4	0.1	40,570	40,097	40,880	43,002	-5.7
Furniture and related products.....	1,357	1,435	1,455	5.4	1.4	0.1	1,354	1,421	1,438	1,465	7.6
Miscellaneous products.....	2,987	2,998	3,026	0.4	0.9	1.5	2,816	3,038	3,093	2,954	4.7
Non-durable goods industries.....	28,772	29,189	29,399	1.4	-0.7	0.1	27,991	29,965	30,594	26,596	5.2
Food products.....	2,789	2,783	2,811	0.2	-1.0	7.1	2,997	3,239	3,327	2,751	8.9
Beverage and tobacco products.....	3,981	3,920	3,971	1.6	-1.3	-0.7	4,151	4,224	4,321	3,947	5.2
Textiles.....	1,126	1,118	1,120	0.7	0.2	-0.3	1,101	1,101	1,117	1,308	15.8
Textile products.....	763	774	779	-1.4	-0.6	0.9	719	774	778	780	7.8
Apparel.....	1,369	1,351	1,327	1.3	1.8	-0.6	1,267	1,337	1,290	1,370	7.5
Leather and allied products.....	141	141	152	0.0	-7.2	2.7	134	139	151	171	21.6
Paper products.....	1,163	1,188	1,195	-2.1	0.6	-1.7	1,177	1,166	1,163	1,298	-9.3
Printing.....	1,837	1,892	1,922	-2.9	1.6	7.1	1,535	1,915	2,064	1,579	-2.8
Petroleum and coal products.....	3,970	3,783	3,904	4.9	3.1	-1.9	3,625	3,748	4,038	2,839	27.7
Basic chemicals.....	9,329	9,918	9,887	5.9	0.3	-2.4	9,045	10,000	10,009	8,349	8.3
Plastics and rubber products.....	2,304	2,321	2,331	0.7	0.4	1.1	2,240	2,322	2,336	2,204	1.6
FINISHED GOODS											
All manufacturing industries ¹	163,121	162,393	162,274	0.4	0.1	0.3	158,087	162,394	163,280	156,820	0.8
Durable goods industries ¹	81,895	81,770	81,281	0.2	0.6	0.3	78,624	81,428	81,210	78,046	0.7
Wood products.....	3,771	3,788	3,747	-0.4	1.1	1.1	3,532	3,585	3,598	3,489	1.2
Nonmetallic mineral products.....	4,569	4,566	4,527	0.1	0.9	0.3	4,484	4,394	4,299	4,499	-0.3
Primary metals.....	6,271	6,186	6,072	1.4	1.9	0.4	6,252	6,128	5,972	6,353	-1.6
Fabricated metal products.....	10,278	10,293	10,272	-0.1	0.2	0.3	9,922	10,149	10,142	10,485	-5.4
Machinery.....	16,053	15,860	15,760	1.2	0.6	0.6	15,720	15,949	15,662	15,465	1.6
Computers and electronic products ¹	9,469	9,606	9,554	-1.4	0.5	-0.3	8,911	9,831	9,813	9,671	-7.9
Electrical equipment, appliances, and components.....	5,159	5,303	5,385	-2.7	-1.5	-1.4	4,884	5,292	5,339	5,250	-7.0
Transportation equipment.....	14,720	14,596	14,583	0.8	0.1	0.9	13,682	14,538	14,845	12,254	11.7
Furniture and related products.....	2,671	2,667	2,604	0.1	2.4	1.8	2,553	2,688	2,645	2,455	4.0
Miscellaneous products.....	8,934	8,905	8,777	0.3	1.5	-0.5	8,684	8,874	8,895	8,125	6.9
Non-durable goods industries.....	81,226	80,623	80,993	0.7	-0.5	0.3	79,463	80,966	82,070	78,774	0.9
Food products.....	19,103	19,472	19,351	-1.9	0.6	0.0	18,877	20,338	20,670	18,412	2.5
Beverage and tobacco products.....	4,304	4,170	4,378	3.2	-4.8	-5.6	4,158	4,327	4,576	4,566	-8.9
Textiles.....	2,333	2,310	2,384	1.0	-3.1	-0.4	2,212	2,268	2,359	2,570	-13.9
Textile products.....	2,258	2,218	2,227	1.8	-0.4	-1.4	2,150	2,146	2,204	2,015	6.7
Apparel.....	4,414	4,369	4,442	1.0	-1.6	-1.0	4,288	4,114	4,386	4,704	-8.8
Leather and allied products.....	1,092	1,071	1,066	2.0	0.5	3.9	1,045	1,073	1,084	933	12.0
Paper products.....	6,243	6,299	6,212	-0.9	1.4	0.1	6,118	6,268	6,093	6,266	-2.4
Printing.....	1,596	1,583	1,589	0.8	-0.4	-0.3	1,566	1,556	1,585	1,623	-3.5
Petroleum and coal products.....	6,462	6,089	6,282	6.1	-3.1	-0.2	6,044	6,036	6,427	5,203	16.2
Basic chemicals.....	25,031	24,654	24,773	1.5	-0.5	2.2	24,717	24,599	24,587	24,817	-0.4
Plastics and rubber products.....	8,390	8,388	8,289	0.0	1.2	0.0	8,288	8,241	8,099	7,665	8.1

Preliminary

^f Revised¹ See footnote at end of Table 3.

Note at end of Table 3 relative 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 ¹			
	Dec 2002 ^b	Nov 2002 ^c	Oct 2002	Sep 2002	Dec 2002 ^b	Nov 2002 ^c	Oct 2002	Sep 2002
All manufacturing industries ²	1.34	1.33	1.31	1.33	(X)	(X)	(X)	(X)
Durable goods industries ²	1.56	1.51	1.49	1.51	4.03	3.94	3.92	3.97
Wood products.....	1.29	1.24	1.27	1.30	(X)	(X)	(X)	(X)
Nonmetallic mineral products.....	1.06	1.06	1.06	1.05	(X)	(X)	(X)	(X)
Primary metals.....	1.68	1.67	1.62	1.62	1.34	1.36	1.39	1.41
Fabricated metal products.....	1.47	1.47	1.45	1.45	1.89	1.92	1.91	1.90
Machinery.....	2.02	1.96	1.95	1.96	2.23	2.19	2.22	2.22
Computers and electronic products ²	1.63	1.63	1.61	1.63	4.91	4.89	4.85	4.91
Electrical equipment, appliances, and components.....	1.39	1.37	1.40	1.43	1.71	1.68	1.72	1.75
Transportation equipment.....	1.49	1.37	1.32	1.35	8.15	7.52	7.42	7.60
Furniture and related products.....	1.23	1.28	1.26	1.28	1.06	1.10	1.09	1.10
Miscellaneous products.....	1.69	1.71	1.74	1.83	(X)	(X)	(X)	(X)
Nondurable goods industries.....	1.09	1.11	1.11	1.12	(X)	(X)	(X)	(X)
Food products.....	0.84	0.85	0.85	0.86	(X)	(X)	(X)	(X)
Beverage and tobacco products.....	1.65	1.62	1.61	1.63	(X)	(X)	(X)	(X)
Textiles.....	1.39	1.35	1.40	1.44	(X)	(X)	(X)	(X)
Textile products.....	1.41	1.41	1.46	1.48	(X)	(X)	(X)	(X)
Apparel.....	1.50	1.52	1.63	1.60	(X)	(X)	(X)	(X)
Leather and allied products.....	2.39	2.17	2.20	2.00	(X)	(X)	(X)	(X)
Paper products.....	1.12	1.14	1.12	1.11	(X)	(X)	(X)	(X)
Printing.....	0.73	0.74	0.74	0.72	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.67	0.69	0.68	0.71	(X)	(X)	(X)	(X)
Basic chemicals.....	1.38	1.39	1.39	1.38	(X)	(X)	(X)	(X)
Plastics and rubber products.....	1.15	1.16	1.16	1.18	(X)	(X)	(X)	(X)

Preliminary ^b Revised X Not Applicable

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.

¹ 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		
	Dec ¹ 2002	Dec ¹ 1997- 2001	Dec 2001 Nov 2002	Dec ¹ 2002	Dec ¹ 1997- 2001	Dec 2001- Nov 2002	Dec ¹ 2002	Dec ¹ 1997- 2001	Dec 2001- Nov 2002	Dec ¹ 2002	Dec ¹ 1997- 2001	Dec 2001 Nov 2002
All manufacturing industries ¹	(X)	(NA)	0.2	(X)	(NA)	0.3	(X)	(NA)	0.2	(X)	(NA)	0.1
Durable goods industries ¹	-0.5	(NA)	0.2	0.4	(NA)	0.5	0.1	(NA)	0.2	0.1	(NA)	0.1
Wood products.....	(X)	(NA)	0.5	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.4
Nonmetallic mineral products.....	(X)	(NA)	1.2	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.4
Primary metals.....	0.0	(NA)	0.4	-0.1	(NA)	0.7	0.0	(NA)	0.3	0.1	(NA)	0.1
Fabricated metal products.....	0.0	(NA)	0.3	0.4	(NA)	1.0	0.4	(NA)	0.4	0.1	(NA)	0.3
Machinery.....	-0.3	(NA)	0.4	-0.4	(NA)	1.2	0.1	(NA)	0.4	0.0	(NA)	0.2
Computers and electronic products ³	-0.7	(NA)	0.7	0.0	(NA)	1.1	0.3	(NA)	0.3	0.4	(NA)	0.2
Electrical equipment, appliances, and components.....	-0.4	(NA)	0.4	-0.6	(NA)	1.0	-0.2	(NA)	0.6	-0.2	(NA)	0.2
Transportation equipment.....	-0.6	(NA)	0.6	-0.8	(NA)	1.5	0.0	(NA)	0.3	-0.1	(NA)	0.3
Furniture and related products.....	(X)	(NA)	0.3	(X)	(NA)	0.8	(X)	(NA)	0.6	(X)	(NA)	0.2
Miscellaneous products.....	(X)	(NA)	0.4	(X)	(NA)	1.3	(X)	(NA)	2.3	(X)	(NA)	0.3
Nondurable goods industries.....	(X)	(NA)	0.4	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.2
Food products.....	(X)	(NA)	0.8	(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)	0.8	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.5
Textile products.....	(X)	(NA)	0.9	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.4
Apparel.....	(X)	(NA)	0.7	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.5
Leather and allied products.....	(X)	(NA)	4.7	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	1.1
Paper products.....	(X)	(NA)	1.1	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.4
Printing.....	(X)	(NA)	0.4	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.3
Petroleum and coal products.....	(X)	(NA)	1.0	(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

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

² Average revisions of the current month for the past five years.

³ 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 5,000 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 5,000 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 5,000 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>.

2003 Release Dates for M3 Survey

Survey Month	Advance 8:30	Preliminary 10:00
Jan 2003	2/27/03 TH	3/6/03 TH
Feb 2003	3/26/03 WE	4/2/03 WE
Mar 2003	4/24/03 TH	5/2/03 FR
Apr 2003	5/28/03 WE	6/5/03 TH
May 2003	6/25/03 WE	7/2/03 WE
Jun 2003	7/25/03 FR	8/4/03 MO
Jul 2003	8/26/03 TU	9/4/03 TH
Aug 2003	9/25/03 TH	10/2/03 TH
Sep 2003	10/28/03 TU	11/5/03 WE
Oct 2003	11/26/03 WE	12/5/03 FR
Nov 2003	12/24/03 WE	