

Manufacturers' Shipments, Inventories, and Orders

March
2002

M3-1(02)-3

For Wire Transmission 10:00 a.m. E.S.T., May 2, 2002

Special Notice

The number of large semiconductor manufacturers choosing not to participate in this voluntary monthly survey has risen to a level such that the Census Bureau can no longer produce monthly estimates of semiconductor shipments, orders, or inventories. This report will not show any semiconductor shipments, inventories, or orders estimates for March 2002. Semiconductor estimates also will not be included in any aggregate estimates for: Total manufacturing; Total manufacturing, excluding transportation; Total manufacturing, excluding defense; Total durable goods; Total durable goods, excluding transportation; Total durable goods, excluding defense; and Computer and electronic products.

For data, call 301-457-4673. For inquiries, contact Lee Wentela or Derrick Roy, Manufacturers' Shipments, Inventories and Orders Branch, Manufacturing and Construction Division (MCD), Washington, DC 20233-6900 or call 301-457-4804 or 301-457-4814.

The advance report on durable good for April is scheduled for May 23, 2002 at 8:30 a.m. and the full report on May 31, 2002 at 10:00 a.m. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

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

U.S. CENSUS BUREAU

Helping You Make Informed Decisions

U.S. Department of Commerce
Economics and Statistics Administration
U.S. CENSUS BUREAU



All figures in text are in seasonally adjusted current dollars

Summary

New orders for manufactured goods (excluding semiconductors) in March increased \$1.4 billion or 0.4 percent to \$318.5 billion, the Department of Commerce, Census Bureau reported today. This followed a 0.2 percent February increase. Year to date, new orders for 2002 were 5.5 percent below the same period a year ago; new orders for the first quarter were 0.3 percent below the fourth quarter.

Shipments (excluding semiconductors) increased \$2.3 billion or 0.7 percent to \$317.5 billion, following a 2.9 percent February decrease. Year to date, shipments for 2002 were 5.8 percent below the same period a year ago; shipments for the first quarter were 0.6 percent below the fourth quarter.

Unfilled orders (excluding semiconductors) increased \$1.0 billion or 0.2 percent to \$524.5 billion, following a 0.4 percent February increase. The unfilled orders-to-shipments ratio was 4.31, down slightly from 4.32 in February.

Inventories (excluding semiconductors), down fourteen consecutive months, decreased \$2.8 billion or 0.6 percent to \$431.5 billion, following a 0.5 percent February decrease. The inventories-to-shipments ratio was 1.36, down from 1.38 in February.

New Orders

New Orders for manufactured durable goods (excluding semiconductors) in March decreased \$0.9 billion or 0.5 percent to \$173.4 billion, revised from the previously published 0.6 percent decrease.

Transportation equipment had the largest decrease, \$0.7 billion or 1.3 percent to \$56.1 billion.

New orders for nondurable goods increased \$2.3 billion or 1.6 percent to \$145.1 billion, led by an increase in petroleum and coal products.

Shipments

Shipments of durable goods (excluding semiconductors) in March slightly increased to \$172.4 billion, unrevised from the previously published estimate.

Primary metals had the largest increase, \$0.4 billion or 3.5 percent to \$11.2 billion. Machinery had the largest decrease, \$0.5 billion or 2.0 percent to \$23.0 billion, due to turbines, generators and other power transmission equipment.

Shipments of nondurable goods increased \$2.3 billion or 1.6 percent to \$145.1 billion, led by an increase in petroleum and coal products.

Unfilled Orders

Unfilled Orders for durable goods (excluding semiconductors) in March increased \$1.0 billion or 0.2 percent to \$524.5 billion, unrevised from the previously published 0.2 percent increase.

Transportation equipment had the largest increase, \$3.6 billion or 1.3 percent to \$279.8 billion. Machinery, down eight of the last nine months, decreased \$1.2 billion or 2.2 percent to \$54.1 billion.

Inventories

Inventories of durable goods (excluding semiconductors) in March, down fourteen consecutive months, decreased \$2.6 billion or 1.0 percent to \$268.5 billion, revised from the previously published 1.1 percent decrease. Durable goods inventories were at their lowest level since December 1996.

Transportation equipment had the largest decrease, \$1.9 billion or 2.7 percent to \$71.1 billion.

Inventories of nondurable goods, down fourteen consecutive months, decreased \$0.1 billion or 0.1 percent to \$163.0 billion.

By stage of fabrication (excluding semiconductors), March materials and supplies increased 0.1 percent in durables and decreased 0.4 percent in nondurables. Work in process decreased 2.9 percent in durables and decreased 0.4 percent in nondurables. Finished goods increased 0.2 percent in durables and 0.2 percent in nondurables.

SEE BACK PAGE FOR UPCOMING REVISIONS

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

For data, call 301-457-4673. 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 301-457-4832 or 301-457-4814.

The advance report on durable goods for April is scheduled for May 23, 2002 at 8:30 a.m and the full report on May 31, 2002 at 10:00 a.m. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS
(Millions of Dollars)

Industry	Seasonally Adjusted						Not Seasonally Adjusted ¹						
	Monthly			Percent Change			Monthly				Percent	Year to date	
	Mar. 2002 ^p	Feb. 2002 ^r	Jan. 2002	Feb. - Mar.	Jan. - Feb.	Dec. - Jan.	Mar. 2002 ^p	Feb. 2002 ^r	Jan. 2002	Mar. 2001	Change Mar. 02/01	2002 ^p	2001
All manufacturing industries ²	317,495	315,152	324,480	0.7	-2.9	1.1	336,313	305,353	292,205	360,346	-6.7	933,871	992,662
Excluding transportation ²	264,997	262,347	268,915	1.0	-2.4	0.8	278,085	252,215	243,248	301,372	-7.7	773,548	840,423
Excluding defense ²	309,244	307,508	316,299	0.6	-2.8	1.2	327,177	298,174	285,531	352,912	-7.3	910,882	973,485
Durable goods industries ²	172,397	172,327	177,743	0.0	-3.0	1.7	187,848	167,345	155,568	203,403	-7.6	510,761	542,673
Wood products.....	6,980	6,945	7,047	+0.5	-1.4	+1.7	6,859	6,491	6,025	6,560	+4.6	19,375	18,597
Nonmetallic mineral products.....	7,380	7,269	7,521	+1.5	-3.4	+2.2	7,221	6,701	6,614	7,385	-2.2	20,536	20,954
Primary metals.....	11,241	10,865	11,367	+3.5	-4.4	+4.3	11,825	10,995	10,929	12,857	-8.0	33,749	37,293
Iron and steel mills.....	4,861	4,720	4,954	+3.0	-4.7	+2.6	5,132	4,758	4,794	5,544	-7.4	14,684	15,970
Aluminum and nonferrous metals.....	5,181	4,935	5,175	+5.0	-4.6	+6.9	5,433	5,037	4,969	5,955	-8.8	15,439	17,490
Ferrous metal foundries.....	1,199	1,210	1,238	-0.9	-2.3	+0.6	1,260	1,200	1,166	1,358	-7.2	3,626	3,833
Fabricated metal products.....	19,796	19,672	20,233	+0.6	-2.8	+1.6	20,517	19,287	18,543	21,429	-4.3	58,347	60,699
Machinery.....	23,031	23,508	23,431	-2.0	+0.3	+5.0	25,374	22,152	19,757	28,210	-10.1	67,283	75,212
Farm machinery.....	1,560	1,497	1,471	+4.2	+1.8	-5.2	1,912	1,654	1,302	1,379	+38.7	4,868	3,982
Construction machinery.....	1,561	1,488	1,474	+4.9	+0.9	-0.8	1,976	1,558	1,286	2,119	-6.7	4,820	5,353
Mining, oil field, and gas field machinery.....	916	925	998	-1.0	-7.3	-5.2	968	940	922	1,127	-14.1	2,830	3,116
Industrial machinery.....	3,312	3,360	3,203	-1.4	+4.9	-3.6	3,500	2,899	2,808	4,711	-25.7	9,207	12,746
Photographic equipment.....	1,276	1,264	1,283	+0.9	-1.5	+1.7	1,343	1,113	1,076	1,481	-9.3	3,532	3,728
Ventilation, heating, air-conditioning, and refrigeration equipment.....	2,579	2,432	2,537	+6.0	-4.1	-2.5	2,789	2,260	2,113	2,995	-6.9	7,162	7,839
Metalworking machinery.....	2,010	2,049	2,095	-1.9	-2.2	+2.2	2,210	1,866	1,598	2,763	-20.0	5,674	6,884
Turbines, generators, and other power transmission equipment.....	3,289	4,035	3,591	-18.5	+12.4	+55.2	3,441	3,259	2,521	3,388	+1.6	9,221	8,639
Material handling equipment.....	1,497	1,420	1,551	+5.4	-8.4	+5.5	1,666	1,441	1,453	2,009	-17.1	4,560	5,685
Computers and electronic products ²	26,665	26,766	27,532	-0.4	-2.8	-2.0	31,253	24,524	22,442	39,055	-20.0	78,219	97,663
Electronic computers.....	4,871	5,072	5,423	-4.0	-6.5	+0.6	6,054	4,385	4,469	8,977	-32.6	14,908	21,493
Computer storage devices.....	1,267	1,324	1,283	-4.3	+3.2	+4.6	1,772	1,104	806	1,611	+10.0	3,682	3,476
Nondefense communications equipment.....	5,263	5,503	5,527	-4.4	-0.4	-3.0	6,133	4,794	4,042	9,169	-33.1	14,969	21,874
Defense communications equipment.....	295	304	321	-3.0	-5.3	+7.4	319	300	284	286	+11.5	903	814
Audio and video equipment.....	882	900	941	-2.0	-4.4	-22.5	935	894	803	1,030	-9.2	2,632	2,779
Semiconductors ³	(NA)	5,844	6,736	(NA)	-13.2	+14.0	(NA)	5,708	5,901	9,232	(NA)	(NA)	26,322
Electronic components.....	3,818	3,917	3,776	-2.5	+3.7	-2.7	4,099	3,816	3,502	5,251	-21.9	11,417	15,893
Nondefense search and navigation equipment.....	713	691	709	+3.2	-2.5	+0.3	766	671	623	815	-6.0	2,060	2,208
Defense search and navigation equipment.....	1,776	1,731	1,703	+2.6	+1.6	-3.0	1,954	1,714	1,464	1,905	+2.6	5,132	5,155
Electromedical, measuring, and control instruments.....	5,551	5,102	5,401	+8.8	-5.5	-1.7	6,426	4,906	4,575	6,193	+3.8	15,907	15,764
Electrical equipment, appliances, and components.....	9,566	9,354	9,632	+2.3	-2.9	-3.0	10,547	9,113	8,166	12,346	-14.6	27,826	33,266
Electric lighting equipment.....	1,153	1,159	1,162	-0.5	-0.3	+0.8	1,243	1,180	988	1,248	-0.4	3,411	3,562
Household appliances.....	2,003	1,998	2,068	+0.3	-3.4	-4.3	2,237	1,975	1,728	2,231	+0.3	5,940	5,835
Electrical equipment.....	2,817	2,653	2,757	+6.2	-3.8	-9.0	3,291	2,574	2,260	3,811	-13.6	8,125	9,794
Batteries.....	509	494	512	+3.0	-3.5	+1.8	492	423	405	526	-6.5	1,320	1,446
Transportation equipment.....	52,498	52,805	55,565	-0.6	-5.0	+2.5	58,228	53,138	48,957	58,974	-1.3	160,323	152,239
Automobiles.....	7,849	8,107	9,162	-3.2	-11.5	+11.5	8,709	8,394	8,422	9,065	-3.9	25,525	23,300
Light trucks and utility vehicles.....	10,366	11,034	12,301	-6.1	-10.3	+7.9	11,346	11,246	11,329	12,840	-11.6	33,921	31,809
Heavy duty trucks.....	935	874	911	+7.0	-4.1	-3.7	1,026	868	811	1,141	-10.1	2,705	3,158
Motor vehicle bodies, parts, and trailers.....	16,527	16,547	16,857	-0.1	-1.8	+1.3	18,084	17,269	15,906	18,513	-2.3	51,259	50,599
Nondefense aircraft and parts.....	8,138	8,091	7,652	+0.6	+5.7	-7.9	9,275	7,764	5,608	9,410	-1.4	22,647	23,381
Defense aircraft and parts.....	3,108	2,865	2,854	+8.5	+0.4	+4.5	3,497	2,631	2,252	2,480	+41.0	8,380	6,208
Ships and boats.....	1,846	1,822	1,777	+1.3	+2.5	+3.5	2,138	1,810	1,435	1,974	+8.3	5,383	5,020
Furniture and related products.....	5,612	5,609	5,825	+0.1	-3.7	+2.5	5,842	5,734	5,475	6,337	-7.8	17,051	18,579
Miscellaneous durable goods.....	9,628	9,534	9,590	+1.0	-0.6	+1.8	10,182	9,210	8,660	10,250	-0.7	28,052	28,171
Nonendurable goods industries.....	145,098	142,825	146,737	+1.6	-2.7	+0.4	148,465	138,008	136,637	156,943	-5.4	423,110	449,989
Food products.....	38,119	38,276	38,767	-0.4	-1.3	+0.4	39,080	37,310	36,548	38,964	+0.3	112,938	110,807
Grain and oilseed milling.....	4,166	4,264	4,263	-2.3	0.0	+0.6	4,106	4,406	4,197	4,102	+0.1	12,709	12,315
Dairy products.....	5,579	5,333	5,637	+4.6	-5.4	-0.4	5,810	5,023	5,331	5,678	+2.3	16,164	15,669
Meat, poultry, and seafood products.....	11,351	11,650	11,786	-2.6	-1.2	+0.7	11,490	11,260	10,950	11,507	-0.1	33,700	32,736
Beverage and tobacco products.....	9,478	9,157	9,757	+3.5	-6.1	-1.7	9,548	8,438	8,689	9,668	-1.2	26,675	27,195
Beverages.....	5,850	5,776	5,736	+1.3	+0.7	-2.8	5,832	5,232	4,863	5,633	+3.5	15,927	15,443
Tobacco.....	3,628	3,381	4,021	+7.3	-15.9	-0.1	3,716	3,206	3,826	4,035	-7.9	10,748	11,752
Textile mills.....	3,529	3,588	3,538	-1.6	+1.4	-0.9	3,828	3,529	3,097	4,294	-10.9	10,454	12,037
Textile products.....	2,874	2,885	2,769	-0.4	+4.2	-1.9	3,026	2,895	2,387	2,883	+5.0	8,308	8,045
Apparel.....	4,991	4,972	5,111	+0.4	-2.7	-2.2	5,201	5,253	4,510	5,616	-7.4	14,964	16,138
Leather and allied products.....	609	634	645	-3.9	-1.7	-5.4	613	642	537	821	-25.3	1,792	2,364
Paper products.....	12,225	11,997	12,575	+1.9	-4.6	+1.5	12,348	11,883	12,319	13,655	-9.6	36,550	40,520
Pulp, paper, and paperboard mills.....	5,572	5,376	5,661	+3.6	-5.0	+2.6	5,644	5,375	5,638	6,318	-10.7	16,657	19,012
Paperboard containers.....	3,796	3,763	3,923	+0.9	-4.1	+1.2	3,859	3,725	3,854	4,159	-7.2	11,438	12,282
Printing.....	8,050	7,781	8,028	+3.5	-3.1	+0.2	8,227	7,445	7,465	8,757	-6.1	23,137	25,067
Petroleum and coal products.....	17,365	15,903	16,345	+9.2	-2.7	+0.9	16,302	14,173	14,752	17,395	-6.3	45,227	53,484
Petroleum refineries.....	15,680	14,301	14,710	+9.6	-2.8	+0.2	14,688	12,861	13,587	15,649	-6.1	41,136	48,814
Basic chemicals.....	33,228	33,040	34,180	+0.6	-3.3	+0.8	35,005	31,938	32,336	39,241	-10.8	99,279	110,142
Pesticides, fertilizers, and other agricultural chemicals.....	1,640	1,553	1,625	+5.6	-4.4	-0.8	2,356	1,540	1,440	2,683	-12.2	5,336	6,102
Pharmaceuticals and medicines.....	3,964	9,082	9,359	-1.3	-3.0	-3.2	8,983	8,278	9,324	10,403	-13.6	26,585	30,427
Paints, coatings, and adhesives.....	2,369	2,475	2,544	-4.3	-2.7	+0.7	2,462	2,428	2,303	2,617	-5.9	7,193	7,324
Plastics and rubber products.....	14,630	14,592	15,022	+0.3	-2.9	+1.6	15,287	14,502	13,997	15,649	-2.3	43,786	44,190

^p Preliminary ^r 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.

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

² See footnote at end of Table 2

³ 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 Mar. 02/01	Year to date	
	Mar. 2002 ^p	Feb. 2002 ^r	Jan. 2002	Feb. - Mar.	Jan. - Feb.	Dec. - Jan.	Mar. 2002 ^p	Feb. 2002 ^r	Jan. 2002	Mar. 2001		2002 ^p	2001
All manufacturing industries ²	318,517	317,123	316,572	0.4	0.2	0.7	338,267	309,658	293,145	361,892	-6.5	941,070	1,000,010
Excluding transportation ²	262,398	260,272	265,483	0.8	-2.0	0.0	274,724	252,546	244,464	295,967	-7.2	771,734	839,477
Excluding defense ²	306,856	306,542	310,255	0.1	-1.2	0.8	323,389	299,357	286,261	349,330	-7.4	909,007	975,000
Durable goods industries ²	173,419	174,298	169,835	-0.5	2.6	0.9	189,802	171,650	156,508	204,949	-7.4	517,960	550,021
Primary metals.....	10,934	10,792	11,027	+1.3	-2.1	+2.3	11,625	11,508	11,269	12,695	-8.4	34,402	38,131
Iron and steel mills.....	4,888	4,815	4,834	+1.5	-0.4	-0.8	5,242	5,241	5,043	5,426	-3.4	15,526	16,324
Aluminum and nonferrous metals.....	4,869	4,808	4,938	+1.3	-2.6	+5.9	5,136	5,098	4,965	5,943	-13.6	15,199	17,978
Ferrous metal foundries.....	1,177	1,169	1,255	+0.7	-6.9	+1.0	1,247	1,169	1,261	1,326	-6.0	3,677	3,829
Fabricated metal products.....	19,680	19,306	19,602	+1.9	-1.5	-0.2	20,698	19,265	18,319	21,422	-3.4	58,282	60,953
Machinery.....	21,828	22,098	22,160	-1.2	-0.3	-1.4	23,797	21,369	19,939	26,653	-10.7	65,105	75,390
Construction machinery.....	1,533	1,408	1,489	+8.9	-5.4	+0.5	1,911	1,596	1,454	1,987	-3.8	4,961	5,315
Mining, oil field, and gas field machinery.....	972	978	1,007	-0.6	-2.9	+1.4	1,021	1,033	980	1,136	-10.1	3,034	3,222
Industrial machinery.....	3,456	3,348	2,996	+3.2	+11.7	-3.1	3,337	2,998	3,052	3,570	-6.5	9,387	11,617
Photographic equipment.....	1,306	1,279	1,253	+2.1	+2.1	+0.9	1,369	1,122	1,097	1,474	-7.1	3,588	3,609
Ventilation, heating, air-conditioning, and refrigeration equipment.....	2,504	2,421	2,641	+3.4	-8.3	+7.6	2,768	2,276	2,396	3,064	-9.7	7,440	8,134
Metalworking machinery.....	1,961	1,974	2,015	-0.7	-2.0	+1.5	2,177	1,881	1,642	2,603	-16.4	5,700	6,754
Turbines, generators, and other power transmission equipment.....	2,130	2,829	2,843	-24.7	-0.5	-14.5	2,068	2,107	1,935	3,240	-36.2	6,110	9,787
Material handling equipment.....	1,432	1,327	1,364	+7.9	-2.7	+3.7	1,750	1,406	1,345	2,108	-17.0	4,501	5,912
Computers and electronic products ²	26,043	26,553	26,982	-1.9	-1.6	-0.8	30,352	24,856	23,159	37,479	-19.0	78,367	97,339
Electronic computers.....	5,066	5,294	5,559	-4.3	-4.8	+5.2	6,192	4,825	4,393	9,004	-31.2	15,410	21,535
Nondefense communications equipment.....	4,741	5,704	5,655	-16.9	+0.9	+12.2	5,473	5,171	4,642	8,605	-36.4	15,286	22,143
Defense communications equipment.....	280	292	307	-4.1	-4.9	-31.0	299	305	273	306	-2.3	877	928
Semiconductors ³	(NA)	7,007	7,434	(NA)	-5.7	+21.3	(NA)	7,023	7,181	7,560	(NA)	(NA)	22,028
Electronic components.....	3,824	3,657	3,548	+4.6	+3.1	-6.2	3,880	3,531	3,772	3,856	+0.6	11,183	13,948
Nondefense search and navigation equipment.....	686	632	664	+8.5	-4.8	+8.7	769	683	604	767	+0.3	2,056	2,130
Defense search and navigation equipment.....	1,585	1,328	1,308	+19.4	+1.5	-17.8	2,114	1,408	1,263	2,449	-13.7	4,785	6,307
Electromedical, measuring, and control instruments.....	5,483	5,200	5,269	+5.4	-1.3	-5.6	6,123	4,995	4,729	6,033	+1.5	15,847	15,886
Electrical equipment, appliances, and components.....	9,242	9,489	9,054	-2.6	+4.8	-5.9	9,954	9,553	8,012	11,595	-14.2	27,519	32,923
Electric lighting equipment.....	1,146	1,139	1,153	+0.6	-1.2	+4.1	1,221	1,172	988	1,250	-2.3	3,381	3,585
Household appliances.....	1,995	1,981	1,845	+0.7	+7.4	-15.9	2,072	2,002	1,695	2,031	+2.0	5,769	5,798
Electrical equipment.....	2,532	2,806	2,493	-9.8	+12.6	-13.2	2,881	2,858	2,125	3,672	-21.5	7,864	9,726
Transportation equipment.....	56,119	56,851	51,089	-1.3	+11.3	+4.3	63,543	57,112	48,681	65,925	-3.6	169,336	160,533
Motor vehicle bodies, parts, and trailers.....	16,653	16,647	16,746	0.0	-0.6	+1.2	18,127	17,457	16,314	18,240	-0.6	51,898	50,678
Nondefense aircraft and parts.....	7,777	7,729	4,815	+0.6	+60.5	-7.6	8,902	6,867	4,245	11,600	-23.3	20,014	25,448
Defense aircraft and parts.....	5,871	4,724	2,954	+24.3	+59.9	+61.2	7,794	4,413	3,760	3,127	149.2	15,967	7,766
Ships and boats.....	1,551	3,324	1,251	-53.3	165.7	+11.4	1,877	3,583	1,199	6,216	-69.8	6,659	8,669
Furniture and related products.....	5,452	5,577	5,874	-2.2	-5.1	+1.9	5,671	5,655	5,608	6,148	-7.8	16,934	18,246

^p Preliminary ^r 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.

(n) When new orders for a prior month are negative because of cancellations, the percentage change calculation is algebraically negative, even though there is a net dollar increase from the prior month to the current month.

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(00), "Manufacturers' Shipments, Inventories, and Orders: 1992-2000."

² Aggregate estimates and percent changes exclude semiconductor industry data. The number of large semiconductor manufacturers choosing not to participate in this voluntary monthly survey has risen to a level such that the Census Bureau can no longer produce monthly estimates of semiconductor shipments, orders, or inventories.

³ The number of large semiconductor manufacturers choosing not to participate in this voluntary monthly survey has risen to a level such that the Census Bureau can no longer produce monthly estimates of semiconductor shipments, orders, or inventories.

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 Mar. 02/01
	Mar. 2002 ^p	Feb. 2002 ^r	Jan. 2002	Feb. - Mar.	Jan. - Feb.	Dec. - Jan.	Mar. 2002 ^p	Feb. 2002 ^r	Jan. 2002	Mar. 2001	
All manufacturing industries ¹	524,492	523,470	521,499	0.2	0.4	-1.5	533,001	531,047	526,742	574,032	-7.1
Excluding transportation ¹	244,643	247,242	249,317	-1.1	-0.8	-1.4	247,345	250,706	250,375	282,206	-12.4
Excluding defense ¹	368,718	371,106	372,072	-0.6	-0.3	-1.6	372,533	376,321	375,138	427,605	-12.9
Durable goods industries ¹	524,492	523,470	521,499	0.2	0.4	-1.5	533,001	531,047	526,742	574,032	-7.1
Primary metals.....	16,500	16,807	16,880	-1.8	-0.4	-2.0	17,240	17,440	16,927	19,792	-12.9
Iron and steel mills.....	8,351	8,324	8,229	+0.3	+1.2	-1.4	8,819	8,709	8,226	9,455	-6.7
Aluminum and nonferrous metals.....	5,945	6,257	6,384	-5.0	-2.0	-3.6	6,152	6,449	6,388	8,107	-24.1
Ferrous metal foundries.....	2,204	2,226	2,267	-1.0	-1.8	+0.8	2,269	2,282	2,313	2,230	+1.7
Fabricated metal products.....	38,478	38,594	38,960	-0.3	-0.9	-1.6	38,715	38,534	38,556	42,895	-9.7
Machinery.....	54,106	55,309	56,719	-2.2	-2.5	-2.2	54,684	56,261	57,044	63,460	-13.8
Construction machinery.....	1,976	2,004	2,084	-1.4	-3.8	+0.7	2,161	2,226	2,188	2,558	-15.5
Mining, oil field, and gas field machinery.....	1,771	1,715	1,662	+3.3	+3.2	+0.5	1,782	1,729	1,636	1,473	+21.0
Industrial machinery.....	9,521	9,377	9,389	+1.5	-0.1	-2.2	9,427	9,590	9,491	11,672	-19.2
Photographic equipment.....	824	794	779	+3.8	+1.9	-3.7	832	806	797	814	+2.2
Ventilation, heating, air-conditioning, and refrigeration equipment.....	4,360	4,435	4,446	-1.7	-0.2	+2.4	4,426	4,447	4,431	4,918	-10.0
Metalworking machinery.....	3,896	3,945	4,020	-1.2	-1.9	-2.0	3,917	3,950	3,935	5,240	-25.2
Turbines, generators, and other power transmission equipment.....	17,628	18,787	19,993	-6.2	-6.0	-3.6	17,724	19,097	20,249	20,763	-14.6
Material handling equipment.....	5,492	5,557	5,650	-1.2	-1.6	-3.2	5,683	5,599	5,634	6,360	-10.6
Computers and electronic products ¹	109,293	109,915	110,128	-0.6	-0.2	-0.5	110,495	111,396	111,064	125,398	-11.9
Electronic computers.....	10,096	9,901	9,679	+2.0	+2.3	+1.4	9,909	9,771	9,331	10,250	-3.3
Nondefense communications equipment.....	37,710	38,232	38,031	-1.4	+0.5	+0.3	38,284	38,944	38,567	46,532	-17.7
Defense communications equipment.....	2,386	2,401	2,413	-0.6	-0.5	-0.6	2,428	2,448	2,443	2,669	-9.0
Semiconductors ²	(NA)	16,291	15,128	(NA)	+7.7	+4.8	(NA)	16,512	15,197	21,036	(NA)
Electronic components.....	14,997	14,991	15,251	0.0	-1.7	-1.5	15,039	15,258	15,543	18,099	-16.9
Nondefense search and navigation equipment.....	4,020	4,047	4,106	-0.7	-1.4	-1.1	4,085	4,082	4,070	5,016	-18.6
Defense search and navigation equipment.....	28,229	28,420	28,623	-0.7	-1.4	-1.4	28,922	28,762	29,068	31,156	-7.2
Electromedical, measuring, and control instruments.....	11,855	11,923	11,825	-0.6	+0.8	-1.1	11,828	12,131	12,042	11,676	+1.3
Electrical equipment, appliances, and components.....	15,678	16,002	15,867	-2.0	+0.9	-3.5	15,882	16,475	16,035	19,036	-16.6
Electric lighting equipment.....	1,496	1,503	1,523	-0.5	-1.3	-0.6	1,466	1,488	1,496	1,580	-7.2
Household appliances.....	1,015	1,023	1,040	-0.8	-1.6	-1.7	1,122	1,287	1,260	1,222	-8.2
Electrical equipment.....	9,474	9,759	9,606	-2.9	+1.6	-2.7	9,497	9,907	9,623	9,985	-4.9
Transportation equipment.....	279,849	276,228	272,182	+1.3	+1.5	-1.6	285,656	280,341	276,367	291,826	-2.1
Motor vehicle bodies, parts, and trailers.....	12,006	11,880	11,780	+1.1	+0.8	-0.9	12,577	12,534	12,346	13,473	-6.7
Nondefense aircraft and parts.....	130,105	130,466	130,828	-0.3	-0.3	-2.1	131,201	131,574	132,471	151,798	-13.6
Defense aircraft and parts.....	61,323	58,560	56,701	+4.7	+3.3	+0.2	63,236	58,939	57,157	46,453	+36.1
Ships and boats.....	22,295	22,590	21,088	-1.3	+7.1	-2.4	23,102	23,363	21,590	23,205	-0.4
Furniture and related products.....	6,262	6,422	6,454	-2.5	-0.5	+0.8	6,040	6,211	6,290	6,722	-10.1

^p Preliminary ^r Revised (NA) Not Available

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

¹ Aggregate estimates and percent changes exclude semiconductor industry data. The number of large semiconductor manufacturers choosing not to participate in this voluntary monthly survey has risen to a level such that the Census Bureau can no longer produce monthly estimates of semiconductor shipments, orders, or inventories.

² The number of large semiconductor manufacturers choosing not to participate in this voluntary monthly survey has risen to a level such that the Census Bureau can no longer produce monthly estimates of semiconductor shipments, orders, or inventories.

Table 4. VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS
(Millions of Dollars)

Industry	Seasonally Adjusted						Not Seasonally Adjusted				
	Monthly			Percent Change			Monthly				Percent Change Mar. 02/01
	Mar. 2002 ^p	Feb. 2002 ^r	Jan. 2002	Feb. - Mar.	Jan. - Feb.	Dec. - Jan.	Mar. 2002 ^p	Feb. 2002 ^r	Jan. 2002	Mar. 2001	
All manufacturing industries ¹	431,487	434,239	436,536	-0.6	-0.5	-0.8	428,681	436,626	434,845	469,091	-8.6
Excluding transportation ¹	360,358	361,166	363,299	-0.2	-0.6	-0.7	358,654	363,576	362,398	394,954	-9.2
Excluding defense ¹	409,283	411,644	413,772	-0.6	-0.5	-0.8	406,977	413,922	412,319	447,606	-9.1
Durable goods industries ¹	268,488	271,121	272,910	-1.0	-0.7	-0.9	266,193	272,870	271,405	296,169	-10.1
Wood products.....	9,458	9,281	9,230	+1.9	+0.6	+2.0	9,508	9,493	9,449	9,933	-4.3
Nonmetallic mineral products.....	9,093	9,122	9,197	-0.3	-0.8	-1.8	9,266	9,314	9,320	10,383	-10.8
Primary metals.....	18,810	19,096	19,355	-1.5	-1.3	-2.1	18,732	19,184	19,526	21,906	-14.5
Iron and steel mills.....	10,170	10,265	10,411	-0.9	-1.4	-1.7	9,984	10,211	10,504	11,714	-14.8
Aluminum and nonferrous metals.....	6,927	7,110	7,205	-2.6	-1.3	-2.6	7,000	7,229	7,293	8,329	-16.0
Ferrous metal foundries.....	1,713	1,721	1,739	-0.5	-1.0	-2.3	1,748	1,744	1,729	1,863	-6.2
Fabricated metal products.....	32,060	32,072	32,325	0.0	-0.8	-0.7	32,241	32,250	32,207	35,532	-9.3
Machinery.....	47,762	47,851	48,078	-0.2	-0.5	-1.0	47,798	48,489	47,822	51,813	-7.7
Farm machinery.....	1,976	1,985	1,984	-0.5	+0.1	-2.1	2,061	2,108	2,082	2,266	-9.0
Construction machinery.....	4,014	4,079	4,004	-1.6	+1.9	+3.3	4,111	4,180	4,042	4,022	+2.2
Mining, oil field, and gas field machinery.....	2,735	2,731	2,735	+0.1	-0.1	+0.8	2,692	2,656	2,655	2,659	+1.2
Industrial machinery.....	8,098	8,071	8,170	+0.3	-1.2	-1.9	8,035	8,176	8,082	9,296	-13.6
Photographic equipment.....	2,247	2,207	2,210	+1.8	-0.1	-1.1	2,226	2,248	2,212	2,383	-6.6
Ventilation, heating, air-conditioning, and refrigeration equipment.....	4,340	4,353	4,344	-0.3	+0.2	+0.5	4,383	4,404	4,267	4,822	-9.1
Metalworking machinery.....	5,415	5,509	5,610	-1.7	-1.8	-0.7	5,281	5,435	5,420	6,108	-13.5
Turbines, generators, and other power transmission equipment.....	5,909	5,898	5,882	+0.2	+0.3	-1.6	5,873	6,026	5,734	5,579	+5.3
Material handling equipment.....	2,312	2,313	2,326	0.0	-0.6	-3.4	2,402	2,388	2,349	2,744	-12.5
Computers and electronic products ¹	40,617	40,974	41,685	-0.9	-1.7	-0.6	39,232	41,138	41,159	49,516	-20.8
Electronic computers.....	3,073	2,940	2,945	+4.5	-0.2	-0.6	2,890	2,970	2,816	3,405	-15.1
Computer storage devices.....	1,303	1,305	1,309	-0.2	-0.3	-6.6	1,239	1,416	1,336	1,823	-32.0
Nondefense communications equipment.....	7,513	7,672	7,949	-2.1	-3.5	-1.2	7,175	7,727	7,954	11,304	-36.5
Defense communications equipment.....	537	549	548	-2.2	+0.2	+2.8	529	545	525	555	-4.7
Audio and video equipment.....	987	987	989	0.0	-0.2	+8.3	860	959	965	955	-9.9
Semiconductors ²	(NA)	7,234	7,108	(NA)	+1.8	-3.2	(NA)	7,327	7,109	8,367	(NA)
Electronic components.....	7,759	7,744	7,823	+0.2	-1.0	-0.4	7,591	7,722	7,750	9,748	-22.1
Nondefense search and navigation equipment.....	2,830	2,830	2,821	0.0	+0.3	+1.9	2,766	2,834	2,833	2,631	+5.1
Defense search and navigation equipment.....	3,133	3,157	3,170	-0.8	-0.4	-0.3	3,058	3,109	3,067	3,113	-1.8
Electromedical, measuring and control instruments.....	9,966	10,145	10,401	-1.8	-2.5	-1.0	9,798	10,206	10,277	11,777	-16.8
Electrical equipment, appliances, and components.....	14,304	14,418	14,520	-0.8	-0.7	-0.9	14,376	14,749	14,445	16,132	-10.9
Electric lighting equipment.....	1,685	1,677	1,699	+0.5	-1.3	+0.2	1,643	1,683	1,669	1,800	-8.7
Household appliances.....	2,438	2,431	2,403	+0.3	+1.2	-0.8	2,489	2,520	2,392	2,596	-4.1
Electrical equipment.....	4,797	4,865	4,936	-1.4	-1.4	-1.0	4,777	4,987	4,968	4,972	-3.9
Batteries.....	739	747	749	-1.1	-0.3	-0.3	727	739	701	798	-8.9
Transportation equipment.....	71,129	73,073	73,237	-2.7	-0.2	-1.0	70,027	73,050	72,447	74,137	-5.5
Automobiles.....	1,855	1,857	1,952	-0.1	-4.9	+3.7	1,855	1,851	1,868	2,114	-12.3
Light trucks and utility vehicles.....	1,523	1,493	1,535	+2.0	-2.7	+3.7	1,524	1,429	1,464	1,626	-6.3
Heavy duty trucks.....	806	827	795	-2.5	+4.0	-4.2	811	844	800	1,034	-21.6
Motor vehicle bodies, parts, and trailers.....	15,453	15,348	15,419	+0.7	-0.5	-2.5	15,294	15,347	15,466	16,953	-9.8
Nondefense aircraft and parts.....	29,294	30,896	30,871	-5.2	+0.1	0.0	28,846	30,701	30,279	30,709	-6.1
Defense aircraft and parts.....	10,255	10,526	10,686	-2.6	-1.5	-1.7	10,040	10,750	10,568	10,133	-0.9
Ships and boats.....	2,360	2,352	2,326	+0.3	+1.1	-1.6	2,380	2,373	2,304	2,330	+2.1
Furniture and related products.....	7,472	7,472	7,535	0.0	-0.8	-1.1	7,367	7,395	7,486	8,704	-15.4
Miscellaneous durable goods.....	17,783	17,762	17,748	+0.1	+0.1	-0.7	17,646	17,808	17,544	18,113	-2.6
Nondurable goods industries.....	162,999	163,118	163,626	-0.1	-0.3	-0.6	162,488	163,756	163,440	172,922	-6.0
Food products.....	29,385	29,556	29,652	-0.6	-0.3	+0.3	28,840	29,741	29,827	28,891	-0.2
Grain and oilseed milling.....	3,335	3,361	3,401	-0.8	-1.2	+1.0	3,382	3,487	3,602	3,394	-0.4
Dairy products.....	3,125	3,124	3,117	0.0	+0.2	+0.2	3,095	3,106	3,044	2,947	+5.0
Meat, poultry, and seafood products.....	5,996	6,028	6,041	-0.5	-0.2	-0.4	5,035	6,095	5,899	5,676	+6.3
Beverage and tobacco products.....	14,055	13,880	13,938	+1.3	-0.4	0.0	14,139	14,192	14,333	13,862	+2.0
Beverages.....	8,406	8,415	8,491	-0.1	-0.9	+0.7	8,456	8,379	8,502	8,331	+1.5
Tobacco.....	5,649	5,465	5,447	+3.4	+0.3	-1.0	5,683	5,813	5,831	5,531	+2.7
Textile mills.....	5,691	5,759	5,805	-1.2	-0.8	-3.6	5,650	5,799	5,801	6,746	-16.2
Textile products.....	4,317	4,340	4,382	-0.5	-1.0	-0.9	4,314	4,333	4,357	4,806	-10.2
Apparel.....	8,389	8,515	8,690	-1.5	-2.0	-2.2	8,293	8,398	8,628	10,245	-19.3
Leather and allied products.....	1,315	1,340	1,373	-1.9	-2.4	-2.1	1,281	1,317	1,343	1,553	-17.5
Paper products.....	15,430	15,433	15,482	0.0	-0.3	-0.6	15,465	15,583	15,601	15,998	-3.3
Pulp, paper, and paperboard mills.....	6,871	6,901	6,912	-0.4	-0.2	-0.1	6,915	6,994	6,950	7,155	-3.4
Paperboard containers.....	4,213	4,185	4,212	+0.7	-0.6	-1.3	4,181	4,202	4,248	4,462	-6.3
Printing.....	5,618	5,704	5,945	-1.5	-4.1	+0.4	5,525	5,527	5,695	6,571	-15.9
Petroleum and coal products.....	12,075	11,703	11,425	+3.2	+2.4	-2.5	11,877	11,318	10,915	12,942	-8.2
Petroleum refineries.....	10,406	9,960	9,711	+4.5	+2.6	-1.8	10,214	9,608	9,253	11,072	-7.7
Basic chemicals.....	49,692	49,916	49,945	-0.4	0.1	-0.1	49,764	50,274	49,780	52,454	-5.1
Pesticides, fertilizers, and other agricultural chemicals.....	2,618	2,634	2,646	-0.6	-0.5	-0.5	3,030	3,080	2,942	3,439	-11.9
Pharmaceuticals and medicines.....	18,643	18,548	18,294	+0.5	+1.4	+0.5	18,335	18,370	17,908	17,527	+4.6
Paints, coatings, and adhesives.....	3,168	3,176	3,169	-0.3	+0.2	+0.8	3,257	3,185	3,150	3,393	-4.0
Plastics and rubber products.....	17,031	16,972	16,989	+0.3	-0.1	-0.6	17,370	17,284	17,160	18,854	-7.9

^p Preliminary ^r Revised (NA) Not Available

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

¹ See footnote at end of Table 3

² See footnote at end of Table 3

Table 5. VALUE OF MANUFACTURERS' SHIPMENTS, NEW ORDERS, UNFILLED ORDERS, AND TOTAL INVENTORIES FOR TOPICAL SERIES ¹
(Millions of Dollars)

Industry	Seasonally Adjusted						Not Seasonally Adjusted ²						
	Monthly			Percent Change			Monthly				Percent Change Mar. 02/01	Year to date	
	Mar. 2002 ^p	Feb. 2002 ^r	Jan. 2002	Feb. - Mar.	Jan. - Feb.	Dec. - Jan.	Mar. 2002 ^p	Feb. 2002 ^r	Jan. 2002	Mar. 2001		2002 ^p	2001
SHIPMENTS													
All manufacturing industries ⁵	317,495	315,152	324,480	0.7	-2.9	1.1	336,313	305,353	292,205	360,346	-6.7	933,871	992,662
Construction materials and supplies	32,161	31,919	32,898	+0.8	-3.0	+1.9	32,491	30,399	29,145	33,433	-2.8	92,035	94,702
Information technology	27,207	27,163	28,172	+0.2	-3.6	-1.3	31,781	24,782	22,801	39,815	-20.2	79,364	98,127
Capital goods	66,013	65,468	66,857	+0.8	-2.1	-0.3	74,537	60,881	55,005	84,524	-11.8	190,423	216,437
Nondefense capital goods ³	59,063	59,109	59,837	-0.1	-1.2	+0.3	66,851	54,870	49,232	78,171	-14.5	170,953	199,721
Excluding aircraft	54,488	54,924	55,793	-0.8	-1.6	+1.9	61,535	51,073	46,432	72,678	-15.3	159,040	186,703
Defense capital goods ⁴	6,950	6,359	7,020	+9.3	-9.4	-5.1	7,686	6,011	5,773	6,353	+21.0	19,470	16,716
Consumer goods	122,945	122,171	127,091	+0.6	-3.9	+1.2	126,743	118,927	117,837	133,359	-5.0	363,507	376,366
Consumer durable goods	33,208	34,101	36,741	-2.6	-7.2	+5.0	36,530	34,619	33,255	39,007	-6.4	104,404	101,843
Consumer nondurable goods	89,737	88,070	90,350	+1.9	-2.5	-0.3	90,213	84,308	84,582	94,352	-4.4	259,103	274,523
NEW ORDERS													
All manufacturing industries ⁵	318,517	317,123	316,572	0.4	0.2	0.7	338,267	309,658	293,145	361,892	-6.5	941,070	1,000,010
Construction materials and supplies	31,970	31,924	32,677	+0.1	-2.3	+2.6	32,541	30,700	29,168	33,634	-3.2	92,409	94,561
Information technology	26,585	27,244	27,738	-2.4	-1.8	+0.5	31,129	25,545	23,283	39,213	-20.6	79,957	99,368
Capital goods	65,981	66,040	59,308	-0.1	+11.4	-4.0	75,425	62,508	52,839	87,491	-13.8	190,772	221,604
Nondefense capital goods ³	55,592	57,329	54,833	-3.0	+4.6	-1.8	62,447	54,231	48,074	76,690	-18.6	164,752	200,685
Excluding aircraft	52,387	54,331	53,866	-3.6	+0.9	+0.7	58,513	52,156	46,877	69,646	-16.0	157,546	187,682
Defense capital goods ⁴	10,389	8,711	4,475	+19.3	+94.7	-24.8	12,978	8,277	4,765	10,801	+20.2	26,020	20,919
Consumer goods	123,059	121,914	126,668	+0.9	-3.8	+0.6	126,408	118,776	118,140	131,850	-4.1	363,324	375,139
Consumer durable goods	33,322	33,844	36,318	-1.5	-6.8	+2.8	36,195	34,468	33,558	37,498	-3.5	104,221	100,616
UNFILLED ORDERS													
All manufacturing industries ⁵	524,492	523,470	521,499	0.2	0.4	-1.5	533,001	531,047	526,742	574,032	-7.1	(X)	(X)
Construction materials and supplies	32,189	32,380	32,375	-0.6	0.0	-0.7	32,248	32,198	31,897	35,927	-10.2	(X)	(X)
Information technology	98,813	99,435	99,354	-0.6	+0.1	-0.4	100,085	100,737	99,974	114,362	-12.5	(X)	(X)
Capital goods	371,628	371,660	371,088	0.0	+0.2	-2.0	378,087	377,199	375,572	410,311	-7.9	(X)	(X)
Nondefense capital goods ³	235,281	238,752	240,532	-1.5	-0.7	-2.0	237,576	241,980	242,619	281,608	-15.6	(X)	(X)
Excluding aircraft	139,257	141,358	141,951	-1.5	-0.4	-1.3	140,456	143,478	142,395	163,692	-14.2	(X)	(X)
Defense capital goods ⁴	136,347	132,908	130,556	+2.6	+1.8	-1.9	140,511	135,219	132,953	128,703	+9.2	(X)	(X)
Consumer goods	8,912	8,798	9,055	+1.3	-2.8	-4.5	8,954	9,289	9,440	9,653	-7.2	(X)	(X)
Consumer durable goods	8,912	8,798	9,055	+1.3	-2.8	-4.5	8,954	9,289	9,440	9,653	-7.2	(X)	(X)
TOTAL INVENTORIES													
All manufacturing industries ⁵	431,487	434,239	436,536	-0.6	-0.5	-0.8	428,681	436,626	434,845	469,091	-8.6	(X)	(X)
Construction materials and supplies	45,115	44,999	45,189	+0.3	-0.4	-0.3	45,490	45,546	45,446	49,597	-8.3	(X)	(X)
Information technology	39,750	40,135	40,805	-1.0	-1.6	-0.8	38,607	40,484	40,336	48,117	-19.8	(X)	(X)
Capital goods	134,829	136,963	137,856	-1.6	-0.6	-0.8	132,839	137,595	136,320	148,039	-10.3	(X)	(X)
Nondefense capital goods ³	116,159	118,195	119,156	-1.7	-0.8	-0.9	114,541	118,953	117,780	130,040	-11.9	(X)	(X)
Excluding aircraft	93,942	94,466	95,372	-0.6	-0.9	-1.3	92,778	95,419	94,577	106,331	-12.7	(X)	(X)
Defense capital goods ⁴	18,670	18,768	18,700	-0.5	+0.4	-0.3	18,298	18,642	18,540	17,999	+1.7	(X)	(X)
Consumer goods	124,787	124,478	124,441	+0.2	0.0	-0.4	123,579	124,575	123,943	129,202	-4.4	(X)	(X)
Consumer durable goods	26,233	26,185	26,256	+0.2	-0.3	-0.1	26,127	26,389	26,103	28,760	-9.2	(X)	(X)
Consumer nondurable goods	98,554	98,293	98,185	+0.3	+0.1	-0.5	97,452	98,186	97,840	100,442	-3.0	(X)	(X)

^p Preliminary ^r 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. The number of large semiconductor manufacturers choosing not to participate in this voluntary monthly survey has risen to a level such that the Census Bureau can no longer 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**
(Millions of Dollars)

Industry	Seasonally Adjusted						Not Seasonally Adjusted				
	Monthly			Percent Change			Monthly				Percent Change Mar. 02/01
	Mar. 2002 ^p	Feb. 2002 ^r	Jan. 2002	Feb. - Mar.	Jan. - Feb.	Dec. - Jan.	Mar. 2002 ^p	Feb. 2002 ^r	Jan. 2002	Mar. 2001	
MATERIALS AND SUPPLIES											
All manufacturing industries ¹	142,099	142,200	142,614	-0.1	-0.3	-0.9	140,992	142,400	143,209	157,076	-10.2
Durable goods industries ¹	85,575	85,472	85,958	0.1	-0.6	-0.9	84,363	85,599	86,361	95,493	-11.7
Wood products.....	3,785	3,721	3,650	+1.7	+1.9	+1.6	3,614	3,814	3,909	3,691	-2.1
Nonmetallic mineral products.....	3,234	3,220	3,252	+0.4	-1.0	-0.3	3,192	3,201	3,278	3,365	-5.1
Primary metals.....	6,196	6,284	6,442	-1.4	-2.5	-1.4	6,035	6,188	6,550	7,273	-17.0
Fabricated metal products.....	10,428	10,328	10,319	+1.0	+0.1	+3.0	10,340	10,278	10,334	10,977	-5.8
Machinery.....	17,175	17,169	17,290	0.0	-0.7	-1.7	17,028	17,269	17,373	18,206	-6.5
Computers and electronic products ¹	13,709	13,925	14,319	-1.6	-2.8	-1.4	13,444	13,867	14,058	18,235	-26.3
Electrical equipment, appliances, and components.....	5,228	5,286	5,336	-1.1	-0.9	-2.0	5,182	5,374	5,328	6,234	-16.9
Transportation equipment.....	16,476	16,225	16,087	+1.5	+0.9	-2.0	16,221	16,327	16,270	17,521	-7.4
Furniture and related products.....	3,085	3,071	3,019	+0.5	+1.7	-2.1	3,087	3,058	3,025	3,539	-12.8
Miscellaneous products.....	6,259	6,243	6,244	+0.3	0.0	-0.7	6,220	6,223	6,236	6,452	-3.6
Nondurable goods industries.....	56,524	56,728	56,656	-0.4	+0.1	-0.8	56,629	56,801	56,848	61,583	-8.0
Food products.....	10,078	10,140	10,167	-0.6	-0.3	-0.5	10,080	10,175	10,335	10,650	-5.4
Beverage and tobacco products.....	5,914	5,854	5,877	+1.0	-0.4	+0.3	6,004	6,012	6,163	5,878	+2.1
Textiles.....	1,483	1,487	1,484	-0.3	+0.2	-3.8	1,486	1,499	1,500	1,860	-20.1
Textile products.....	1,452	1,464	1,477	-0.8	-0.9	-2.1	1,445	1,452	1,453	1,703	-15.1
Apparel.....	1,851	1,867	1,880	-0.9	-0.7	+0.3	1,887	1,849	1,868	2,439	-22.6
Leather and allied products.....	315	320	322	-1.6	-0.6	-2.4	306	311	314	418	-26.8
Paper products.....	7,188	7,308	7,324	-1.6	-0.2	-0.4	7,232	7,375	7,368	7,686	-5.9
Printing.....	2,329	2,430	2,529	-4.2	-3.9	+1.0	2,339	2,393	2,493	3,108	-24.7
Petroleum and coal products.....	3,569	3,514	3,282	+1.6	+7.1	-7.6	3,562	3,372	3,065	3,913	-9.0
Basic chemicals.....	15,334	15,377	15,351	-0.3	+0.2	-0.6	15,277	15,383	15,326	16,455	-7.2
Plastics and rubber products.....	7,011	6,967	6,963	+0.6	+0.1	+0.3	7,011	6,980	6,963	7,473	-6.2
WORK IN PROCESS											
All manufacturing industries ¹	125,511	128,493	129,289	-2.3	-0.6	-0.2	124,028	128,550	127,875	136,168	-8.9
Durable goods industries ¹	97,688	100,571	101,469	-2.9	-0.9	-0.5	96,531	100,669	100,114	107,119	-9.9
Wood products.....	1,888	1,900	1,866	-0.6	+1.8	+0.5	1,912	1,942	1,862	1,989	-3.9
Nonmetallic mineral products.....	1,280	1,282	1,301	-0.2	-1.5	-3.3	1,345	1,334	1,324	1,612	-16.6
Primary metals.....	6,271	6,453	6,536	-2.8	-1.3	-1.7	6,284	6,498	6,558	7,324	-14.2
Fabricated metal products.....	10,685	10,716	10,765	-0.3	-0.5	-3.8	10,650	10,698	10,644	11,680	-8.8
Machinery.....	13,709	13,879	13,934	-1.2	-0.4	-0.8	13,512	13,868	13,460	15,146	-10.8
Computers and electronic products ¹	14,471	14,565	14,706	-0.7	-1.0	-0.1	14,194	14,565	14,397	16,343	-13.1
Electrical equipment, appliances, and components.....	3,313	3,304	3,360	+0.3	-1.7	-0.8	3,312	3,313	3,308	3,990	-17.0
Transportation equipment.....	41,545	43,958	44,431	-5.5	-1.1	+0.5	40,869	43,985	44,089	44,199	-7.5
Furniture and related products.....	1,525	1,499	1,524	+1.7	-1.6	+1.1	1,512	1,508	1,533	1,781	-15.1
Miscellaneous products.....	3,001	3,015	3,046	-0.5	-1.0	-0.5	2,941	2,958	2,939	3,055	-3.7
Nondurable goods industries.....	27,823	27,922	27,820	-0.4	+0.4	+1.1	27,497	27,881	27,761	29,049	-5.3
Food products.....	2,488	2,518	2,486	-1.2	+1.3	+0.9	2,425	2,532	2,557	2,494	-2.8
Beverage and tobacco products.....	3,402	3,332	3,308	+2.1	+0.7	+2.1	3,399	3,459	3,470	3,259	+4.3
Textiles.....	1,391	1,426	1,440	-2.5	-1.0	-2.5	1,389	1,439	1,448	1,781	-22.0
Textile products.....	872	878	876	-0.7	+0.2	0.0	861	872	866	914	-5.8
Apparel.....	1,551	1,570	1,602	-1.2	-2.0	-1.4	1,532	1,563	1,594	2,040	-24.9
Leather and allied products.....	143	142	146	+0.7	-2.7	-5.2	143	140	146	236	-39.4
Paper products.....	1,401	1,355	1,391	+3.4	-2.6	-0.7	1,378	1,382	1,451	1,399	-1.5
Printing.....	1,669	1,619	1,684	+3.1	-3.9	-3.2	1,602	1,533	1,611	1,841	-13.0
Petroleum and coal products.....	2,790	2,614	2,619	+6.7	-0.2	+0.5	2,786	2,546	2,537	2,878	-3.2
Basic chemicals.....	9,822	10,158	9,941	-3.3	+2.2	+3.9	9,624	10,041	9,712	9,693	-0.7
Plastics and rubber products.....	2,294	2,310	2,327	-0.7	-0.7	-1.7	2,358	2,374	2,369	2,514	-6.2
FINISHED GOODS											
All manufacturing industries ¹	163,877	163,546	164,633	+0.2	-0.7	-1.1	163,651	165,676	163,761	175,847	-6.9
Durable goods industries ¹	85,225	85,078	85,483	+0.2	-0.5	-1.3	85,299	86,602	84,930	93,557	-8.8
Wood products.....	3,785	3,660	3,714	+3.4	-1.5	+3.1	3,982	3,737	3,678	4,253	-6.4
Nonmetallic mineral products.....	4,579	4,620	4,644	-0.9	-0.5	-2.3	4,729	4,779	4,718	5,406	-12.5
Primary metals.....	6,343	6,359	6,377	-0.3	-0.3	-3.2	6,413	6,498	6,418	7,309	-12.3
Fabricated metal products.....	10,947	11,028	11,241	-0.7	-1.9	-0.8	11,251	11,274	11,229	12,875	-12.6
Machinery.....	16,878	16,803	16,854	+0.4	-0.3	-0.4	17,258	17,352	16,989	18,461	-6.5
Computers and electronic products ¹	12,437	12,484	12,660	-0.4	-1.4	-0.2	11,594	12,706	12,704	14,938	-22.4
Electrical equipment, appliances, and components.....	5,763	5,828	5,824	-1.1	+0.1	0.0	5,882	6,062	5,809	5,908	-0.4
Transportation equipment.....	13,108	12,890	12,719	+1.7	+1.3	-4.9	12,937	12,738	12,088	12,417	+4.2
Furniture and related products.....	2,862	2,902	2,992	-1.4	-3.0	-1.1	2,768	2,829	2,928	3,384	-18.2
Miscellaneous products.....	8,523	8,504	8,458	+0.2	+0.5	-0.8	8,485	8,627	8,369	8,606	-1.4
Nondurable goods industries.....	78,652	78,468	79,150	+0.2	-0.9	-0.9	78,362	79,074	78,831	82,290	-4.8
Food products.....	16,820	16,898	16,999	-0.5	-0.6	+0.7	16,335	17,034	16,935	15,747	+3.7
Beverage and tobacco products.....	4,739	4,694	4,753	+1.0	-1.2	-1.7	4,736	4,721	4,700	4,725	+0.2
Textiles.....	2,817	2,846	2,881	-1.0	-1.2	-3.9	2,775	2,861	2,853	3,105	-10.6
Textile products.....	1,993	1,998	2,029	-0.3	-1.5	-0.3	2,008	2,009	2,038	2,189	-8.3
Apparel.....	4,387	5,078	5,208	-1.8	-2.5	-3.3	4,844	4,976	5,166	5,766	-16.0
Leather and allied products.....	857	878	905	-2.4	-3.0	-1.4	832	866	883	899	-7.5
Paper products.....	6,841	6,770	6,767	+1.0	0.0	-0.8	6,855	6,826	6,782	6,913	-0.8
Printing.....	1,620	1,655	1,732	-2.1	-4.4	+3.2	1,584	1,601	1,591	1,622	-2.3
Petroleum and coal products.....	5,716	5,575	5,524	+2.5	+0.9	-0.7	5,529	5,400	5,313	6,151	-10.1
Basic chemicals.....	24,536	24,381	24,653	+0.6	-1.1	-1.3	24,863	24,850	24,742	26,306	-5.5
Plastics and rubber products.....	7,726	7,695	7,699	+0.4	-0.1	-1.1	8,001	7,930	7,828	8,867	-9.8

^p Preliminary^r Revised¹ 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 ¹			
	Mar 2002 ^a	Feb 2002 ^r	Jan 2002	Dec 2001	Mar 2002 ^a	Feb 2002 ^r	Jan 2002	Dec 2001
All manufacturing industries ²	1.36	1.38	1.35	1.37	(X)	(X)	(X)	(X)
Durable goods industries ²	1.56	1.57	1.54	1.58	4.31	4.32	4.22	4.32
Wood products.....	1.36	1.34	1.31	1.31	(X)	(X)	(X)	(X)
Nonmetallic mineral products.....	1.23	1.25	1.22	1.27	(X)	(X)	(X)	(X)
Primary metals.....	1.67	1.76	1.70	1.81	1.47	1.55	1.49	1.58
Fabricated metal products.....	1.62	1.63	1.60	1.63	2.05	2.07	2.03	2.09
Machinery.....	2.07	2.04	2.05	2.18	2.57	2.57	2.63	2.86
Computers and electronic products ²	1.52	1.53	1.51	1.49	4.90	4.92	4.82	4.77
Electrical equipment, appliances, and components.....	1.50	1.54	1.51	1.48	1.73	1.81	1.74	1.75
Transportation equipment.....	1.35	1.38	1.32	1.36	8.39	8.42	8.20	8.22
Furniture and related products.....	1.33	1.33	1.29	1.34	1.28	1.31	1.27	1.30
Miscellaneous products.....	1.85	1.86	1.85	1.90	(X)	(X)	(X)	(X)
Nondurable goods industries.....	1.12	1.14	1.12	1.13	(X)	(X)	(X)	(X)
Food products.....	0.77	0.77	0.76	0.77	(X)	(X)	(X)	(X)
Beverage and tobacco products.....	1.48	1.52	1.43	1.40	(X)	(X)	(X)	(X)
Textiles.....	1.61	1.61	1.64	1.69	(X)	(X)	(X)	(X)
Textile products.....	1.50	1.50	1.58	1.57	(X)	(X)	(X)	(X)
Apparel.....	1.68	1.71	1.70	1.70	(X)	(X)	(X)	(X)
Leather and allied products.....	2.16	2.11	2.13	2.06	(X)	(X)	(X)	(X)
Paper products.....	1.26	1.29	1.23	1.26	(X)	(X)	(X)	(X)
Printing.....	0.70	0.73	0.74	0.74	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.70	0.74	0.70	0.72	(X)	(X)	(X)	(X)
Basic chemicals.....	1.50	1.51	1.46	1.47	(X)	(X)	(X)	(X)
Plastics and rubber products.....	1.16	1.16	1.13	1.16	(X)	(X)	(X)	(X)

^a Preliminary^r Revised² See footnote at end of Table 2.

(X) Not Applicable

¹ 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.

Table 8. REVISIONS TO PREVIOUSLY PUBLISHED MONTHLY PERCENT CHANGES
(Based on Seasonally Adjusted data)

Industry	Shipments			New Orders			Unfilled Orders			Inventories		
	Mar ¹ 2002	Mar ² 1997- 2001	Mar 2001- Feb 2002	Mar ¹ 2002	Mar ² 1997- 2001	Mar 2001- Feb 2002	Mar ¹ 2002	Mar ² 1997- 2001	Mar 2001- Feb 2002	Mar ¹ 2002	Mar ² 1997- 2001	Mar 2001- Feb 2002
All manufacturing industries ³	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)
Durable goods industries ³	0.0	(NA)	(NA)	0.1	(NA)	(NA)	0.0	(NA)	(NA)	0.1	(NA)	(NA)
Wood products.....	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)
Nonmetallic mineral products.....	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)
Primary metals.....	-0.3	(NA)	(NA)	-0.6	(NA)	(NA)	-0.1	(NA)	(NA)	0.0	(NA)	(NA)
Fabricated metal products.....	0.3	(NA)	(NA)	0.7	(NA)	(NA)	-0.2	(NA)	(NA)	0.4	(NA)	(NA)
Machinery.....	-0.2	(NA)	(NA)	0.2	(NA)	(NA)	0.1	(NA)	(NA)	0.1	(NA)	(NA)
Computers and electronic products ³	0.0	(NA)	(NA)	-0.2	(NA)	(NA)	-0.1	(NA)	(NA)	-0.1	(NA)	(NA)
Electrical equipment, appliances, and components.....	0.3	(NA)	(NA)	-0.3	(NA)	(NA)	-0.4	(NA)	(NA)	-0.1	(NA)	(NA)
Transportation equipment.....	0.1	(NA)	(NA)	0.3	(NA)	(NA)	0.0	(NA)	(NA)	0.0	(NA)	(NA)
Furniture and related products.....	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)
Miscellaneous products.....	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)
Nondurable goods industries.....	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)
Food products.....	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)
Beverage and tobacco products.....	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)
Textiles.....	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)
Textile products.....	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)
Apparel.....	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)
Leather and allied products.....	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)
Paper products.....	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)
Printing.....	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)
Petroleum and coal products.....	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)
Basic chemicals.....	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)
Plastics and rubber products.....	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)

(X) Not Applicable

(NA) Not Available

³ See footnote at end of Table 7

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.

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.

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.

NOTICE

Revised historical data for Manufacturers' Shipments, Inventories, and Orders will be issued on June 19, 2002. The revisions to the historical data are the result of:

- **benchmarking the shipments and inventory data to the 2000 Annual Survey of Manufactures (ASM) data.**
- **adjusting new and unfilled orders to be consistent with the benchmarked shipments and inventory data.**
- **correcting monthly data for late receipts, reclassification of reported data, and revisions to previously reported data.**
- **updating the seasonal adjustment factors for all series.**

The publication will include data from 1992-December 2001. An accompanying press release will include the revised 2002 January – April data. Please call Dan Sansbury on (301) 457-4832 with questions.