

Manufacturers' Shipments, Inventories, and Orders

April
2002

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Current
Industrial
Reports

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.

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

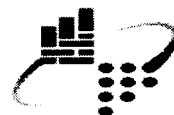
The advance report on durable good for May is scheduled for June 26, 2002 at 8:30 a.m. and the full report on July 3, 2002 at 10:00 a.m. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

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

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



Summary

New orders for manufactured goods, excluding semi-conductors, in April increased \$3.7 billion or 1.2 percent to \$323.9 billion, the Department of Commerce, Census Bureau reported today. This followed a 1.0 percent March increase. Year to date, new orders for 2002 were 4.5 percent below the same period a year ago.

Shipments, excluding semiconductors, increased \$7.5 billion or 2.4 percent to \$326.2 billion, following a 1.1 percent March increase. Year to date, shipments for 2002 were 4.6 percent below the same period a year ago.

Unfilled orders, excluding semiconductors, decreased \$2.3 billion or 0.4 percent to \$522.7 billion, following a 0.3 percent March increase. The unfilled orders-to-shipments ratio was 4.18, down 2.8 percent from 4.30 in March.

Inventories, excluding semiconductors, down fifteen consecutive months, decreased \$1.0 billion or 0.2 percent to \$430.5 billion, following a 0.6 percent March decrease. The inventories-to-shipments ratio was 1.32, down 2.2 percent from 1.35 in March.

New Orders

New Orders for manufactured durable goods, excluding semiconductors, in April increased \$2.6 billion or 1.5 percent to \$177.4 billion, revised from the previously published 1.1 percent increase.

Machinery had the largest increase, \$1.0 billion or 4.5 percent to \$22.8 billion, led by turbines and generators. Electrical equipment, appliances, and components increased \$0.9 billion or 9.6 percent to \$10.1 billion.

New orders for nondurable goods increased \$1.1 billion or 0.7 percent to \$146.5 billion, led by an increase in plastics and rubber products.

Shipments

Shipments of durable goods, excluding semiconductors, in April increased \$6.5 billion or 3.7 percent to \$179.7 billion, revised from the previously published 3.5 percent increase.

Transportation equipment had the largest increase, \$4.1 billion or 7.8 percent to \$56.9 billion.

Shipments of nondurable goods increased \$1.1 billion or 0.7 percent to \$146.5 billion, led by an increase in plastics and rubber products.

Unfilled Orders

Unfilled Orders for durable goods, excluding semiconductors, in April decreased \$2.3 billion or 0.4 percent to \$522.7 billion, revised from the previously published 0.5 percent decrease.

Transportation equipment had the largest decrease, \$2.2 billion or 0.8 percent to \$277.6 billion. Machinery, down four consecutive months, decreased \$0.2 billion or 0.4 percent to \$54.0 billion.

Inventories

Inventories of durable goods, excluding semiconductors, in April, down fifteen consecutive months, decreased \$0.8 billion or 0.3 percent to \$267.7 billion, unrevised from the previously published 0.3 percent decrease. Durable goods inventories were at their lowest level since October 1996.

Machinery, down thirteen consecutive months, had the largest decrease, \$0.3 billion or 0.6 percent to \$47.3 billion.

Inventories of nondurable goods, down fifteen consecutive months, decreased \$0.2 billion or 0.1 percent to \$162.8 billion.

By stage of fabrication, excluding semiconductors, April materials and supplies decreased 0.3 percent in durables and increased 0.2 percent in nondurables. Work in process decreased 0.8 percent in durables and 0.7 percent in nondurables. Finished goods increased 0.3 percent in durables and decreased 0.1 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 May is scheduled for June 26, 2002 at 8:30 a.m and the full report on July 3, 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	
	Apr. 2002 ^p	Mar. 2002 ^r	Feb. 2002	Mar. - Apr.	Feb. - Mar.	Jan. - Feb.	Apr. 2002 ^p	Mar. 2002 ^r	Feb. 2002	Apr. 2001	Change Apr. 02/01	2002 ^p	2001
All manufacturing industries ²	326,184	318,668	315,152	+2.4	+1.1	-2.9	323,323	336,687	305,353	322,911	+0.1	1,257,568	1,315,573
Excluding transportation	269,260	265,876	262,347	+1.3	+1.3	-2.4	266,291	278,392	252,215	273,739	-2.7	1,040,146	1,114,162
Excluding defense ²	317,773	310,392	307,508	+2.4	+0.9	-2.8	315,436	327,575	298,174	316,731	-0.4	1,226,716	1,290,216
Durable goods industries ²	179,725	173,268	172,327	+3.7	+0.5	-3.0	177,482	188,092	167,345	172,881	+2.7	688,487	715,554
Wood products.....	7,144	7,105	6,945	+0.5	+2.3	-1.4	7,257	6,922	6,491	6,819	+6.4	26,695	25,416
Nonmetallic mineral products.....	8,043	7,649	7,269	+5.2	+5.2	-3.4	8,285	7,456	6,701	7,540	+9.9	29,056	28,494
Primary metals.....	11,638	11,337	10,865	+2.7	+4.3	-4.4	12,085	11,845	10,995	12,063	+0.2	45,854	49,356
Iron and steel mills.....	5,096	4,936	4,720	+3.2	+4.6	-4.7	5,326	5,169	4,758	5,145	+3.5	20,047	21,115
Aluminum and nonferrous metals.....	5,280	5,181	4,935	+1.9	+5.0	-4.6	5,444	5,407	5,037	5,661	-3.8	20,857	23,151
Ferrous metal foundries.....	1,262	1,220	1,210	+3.4	+0.8	-2.3	1,315	1,269	1,200	1,257	+4.6	4,950	5,090
Fabricated metal products.....	20,275	19,781	19,672	+2.5	+0.6	-2.8	20,437	20,334	19,287	20,123	+1.6	78,601	80,822
Machinery.....	22,995	22,868	23,508	+0.6	-2.7	+0.3	23,396	25,327	22,152	24,735	-5.4	90,632	99,947
Farm machinery.....	1,478	1,533	1,497	-3.6	+2.4	+1.8	1,825	1,915	1,654	1,495	+22.1	6,696	5,477
Construction machinery.....	1,666	1,575	1,488	+5.8	+5.8	+0.9	1,827	1,976	1,558	1,750	+4.4	6,647	7,103
Mining, oil field, and gas field machinery.....	994	925	925	+7.5	0.0	-7.3	946	971	940	991	-4.5	3,779	4,107
Industrial machinery.....	3,457	3,331	3,360	+3.8	-0.9	+4.9	3,366	3,525	2,899	4,037	-16.6	12,598	16,783
Photographic equipment.....	1,295	1,284	1,264	+0.9	+1.6	-1.5	1,214	1,353	1,113	1,213	+0.1	4,756	4,941
Ventilation, heating, air-conditioning, and refrigeration equipment.....	2,567	2,587	2,432	-0.8	+6.4	-4.1	2,572	2,787	2,260	2,620	-1.8	9,732	10,459
Metalworking machinery.....	2,120	2,024	2,049	+4.7	-1.2	-2.2	1,950	2,205	1,866	2,130	-8.5	7,619	9,014
Turbines, generators, and other power transmission equipment.....	2,591	3,040	4,035	-14.8	-24.7	+12.4	2,394	3,357	3,259	2,820	-15.1	11,531	11,459
Material handling equipment.....	1,518	1,498	1,420	+1.3	+5.5	-8.4	1,524	1,665	1,441	1,695	-10.1	6,083	7,380
Computers and electronic products ²	27,297	26,940	26,766	+1.3	+0.7	-2.8	24,030	31,440	24,524	26,582	-9.6	102,436	124,245
Electronic computers.....	4,936	4,863	5,072	+1.5	-4.1	-6.5	4,448	6,054	4,385	6,023	-26.1	19,356	27,516
Computer storage devices.....	1,285	1,274	1,324	+0.9	-3.8	+3.2	884	1,783	1,104	804	+10.0	4,577	4,280
Nondefense communications equipment.....	5,523	5,377	5,503	+2.7	-2.3	-0.4	4,780	6,219	4,794	5,951	-19.7	19,835	27,825
Defense communications equipment.....	294	295	304	-0.3	-3.0	-5.3	283	319	300	267	+6.0	1,186	1,081
Audio and video equipment.....	930	890	900	+4.5	-1.1	-4.4	755	935	894	662	+14.0	3,387	3,441
Semiconductors ³	(NA)	(NA)	5,844	(NA)	(NA)	-13.2	(NA)	(NA)	5,708	7,176	(NA)	(NA)	33,498
Electronic components.....	3,931	3,849	3,917	+2.1	-1.7	+3.7	3,728	4,104	3,816	3,993	-6.6	15,150	19,886
Nondefense search and navigation equipment.....	692	712	691	-2.8	+3.0	-2.5	635	766	671	696	-8.8	2,695	2,904
Defense search and navigation equipment.....	1,855	1,826	1,731	+1.6	+5.5	+1.6	1,756	2,016	1,714	1,623	+8.2	6,950	6,778
Electromedical, measuring, and control instruments.....	5,446	5,607	5,102	-2.9	+9.9	-5.5	4,950	6,481	4,906	4,792	+3.3	20,912	20,556
Electrical equipment, appliances, and components.....	9,792	9,479	9,354	+3.3	+1.3	-2.9	9,561	10,421	9,113	10,641	-10.1	37,261	43,907
Electric lighting equipment.....	1,191	1,161	1,159	+2.6	+0.2	-0.3	1,090	1,243	1,180	1,116	-2.3	4,501	4,678
Household appliances.....	2,107	1,906	1,998	+10.5	-4.6	-3.4	2,103	2,130	1,975	1,939	+8.5	7,936	7,774
Electrical equipment.....	2,888	2,836	2,653	+1.8	+6.9	-3.8	2,710	3,289	2,574	2,925	-7.4	10,833	12,719
Batteries.....	540	514	494	+5.1	+4.0	-3.5	465	493	423	452	+2.9	1,786	1,898
Transportation equipment.....	56,924	52,792	52,805	+7.8	0.0	-5.0	57,032	58,295	53,138	49,172	+16.0	217,422	201,411
Automobiles.....	8,907	7,864	8,107	+13.3	-3.0	-11.5	9,076	8,709	8,394	7,549	+20.2	34,601	30,849
Light trucks and utility vehicles.....	12,008	10,366	11,034	+15.8	-6.1	-10.3	12,400	11,346	11,246	10,707	+15.8	46,321	42,516
Heavy duty trucks.....	1,020	956	874	+6.7	+9.4	-4.1	1,063	1,022	868	1,019	+4.3	3,764	4,177
Motor vehicle bodies, parts, and trailers.....	18,409	16,834	16,547	+9.4	+1.7	-1.8	19,176	18,218	17,269	16,718	+14.7	70,569	67,317
Nondefense aircraft and parts.....	7,833	8,096	8,091	-3.2	+0.1	+5.7	7,108	9,269	7,764	6,826	+4.1	29,749	30,207
Defense aircraft and parts.....	3,150	3,093	2,865	+1.8	+8.0	+0.4	2,847	3,442	2,631	1,967	+44.7	11,172	8,175
Ships and boats.....	1,886	1,861	1,822	+1.3	+2.1	+2.5	1,957	2,158	1,810	1,670	+17.2	7,360	6,690
Furniture and related products.....	5,813	5,637	5,609	+3.1	+0.5	-3.7	5,731	5,849	5,734	5,970	-4.0	22,789	24,549
Miscellaneous durable goods.....	9,804	9,680	9,534	+1.3	+1.5	-0.6	9,668	10,203	9,210	9,236	+4.7	37,741	37,407
Non durable goods industries.....	146,459	145,400	142,825	+0.7	+1.8	-2.7	145,841	148,595	138,008	150,030	-2.8	569,081	600,019
Food products.....	38,094	38,198	38,276	-0.3	-0.2	-1.3	36,724	39,204	37,310	36,750	-0.1	149,786	147,557
Grain and oilseed milling.....	4,203	4,165	4,264	+0.9	-2.3	0.0	4,076	4,111	4,406	3,884	+4.9	16,790	16,199
Dairy products.....	5,391	5,524	5,333	-2.4	+3.6	-5.4	5,150	5,742	5,023	5,371	-4.1	21,246	21,040
Meat, poultry, and seafood products.....	11,500	11,427	11,650	+0.6	-1.9	-1.2	11,279	11,564	11,260	11,337	-0.5	45,053	44,073
Beverage and tobacco products.....	9,333	9,424	9,157	-1.0	+2.9	-6.1	8,997	9,509	8,438	9,179	-2.0	35,633	36,374
Beverages.....	5,831	5,822	5,776	+0.2	+0.8	+0.7	5,865	5,793	5,232	5,494	+6.8	21,753	20,937
Tobacco.....	3,502	3,602	3,381	-2.8	+6.5	-15.9	3,132	3,716	3,206	3,685	-15.0	13,880	15,437
Textile mills.....	3,824	3,606	3,588	+6.0	+0.5	+1.4	3,716	3,873	3,529	3,797	-2.1	14,215	15,834
Textile products.....	3,057	2,947	2,885	+3.7	+2.1	+4.2	3,120	3,076	2,895	2,765	+12.8	11,478	10,810
Apparel.....	5,055	4,878	4,972	+3.6	-1.9	-2.7	4,885	5,033	5,253	5,091	-4.0	19,681	21,229
Leather and allied products.....	626	614	634	+2.0	-3.2	-1.7	585	613	642	706	-17.1	2,377	3,070
Paper products.....	12,635	12,357	11,997	+2.2	+3.0	-4.6	12,493	12,432	11,883	12,966	-3.6	49,127	53,486
Pulp, paper, and paperboard mills.....	5,761	5,631	5,376	+2.3	+4.7	-5.0	5,719	5,679	5,375	6,063	-5.7	22,411	25,075
Paperboard containers.....	3,909	3,862	3,763	+1.2	+2.6	-4.1	3,955	3,911	3,725	4,005	-1.2	15,445	16,287
Printing.....	8,034	8,043	7,781	-0.1	+3.4	-3.1	7,709	8,188	7,445	8,092	-4.7	30,807	33,159
Petroleum and coal products.....	17,183	17,403	15,903	-1.3	+9.4	-2.7	17,491	16,512	14,173	19,413	-9.9	62,928	72,897
Petroleum refineries.....	15,417	15,697	14,301	-1.8	+9.8	-2.8	15,785	14,884	12,861	17,606	-10.3	57,117	66,420
Basic chemicals.....	33,561	33,333	33,040	+0.7	+0.9	-3.3	34,409	35,041	31,938	36,246	-5.1	133,724	146,388
Pesticides, fertilizers, and other agricultural chemicals.....	1,722	1,660	1,553	+3.7	+6.9	-4.4	3,012	2,359	1,540	2,899	+3.9	8,351	9,001
Pharmaceuticals and medicines.....	8,451	8,851	9,082	-4.5	-2.5	-3.0	7,986	8,983	8,278	9,711	-17.8	34,571	40,138
Paints, coatings, and adhesives.....	2,441	2,381	2,475	+2.5	-3.8	-2.7	2,564	2,468	2,428	2,597	-1.3	9,763	9,921
Plastics and rubber products.....	15,057	14,597	14,592	+3.2	0.0	-2.9	15,712	15,114	14,502	15,025	+4.6	59,325	59,215

^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 Apr. 02/01	Year to date	
	Apr. 2002 ^p	Mar. 2002 ^r	Feb. 2002	Mar. - Apr.	Feb. - Mar.	Jan. - Feb.	Apr. 2002 ^p	Mar. 2002 ^r	Feb. 2002	Apr. 2001		2002 ^p	2001
All manufacturing industries ²	323,867	320,181	317,123	+1.2	+1.0	+0.2	319,767	339,023	309,658	319,734	0.0	1,261,593	1,319,744
Excluding transportation ²	269,116	263,828	260,272	+2.0	+1.4	-2.0	266,626	275,520	252,546	269,745	-1.2	1,039,156	1,109,222
Excluding defense ²	315,710	308,341	306,542	+2.4	+0.6	-1.2	312,478	324,154	299,357	313,455	-0.3	1,222,250	1,288,455
Durable goods industries ²	177,408	174,781	174,298	+1.5	+0.3	+2.6	173,926	190,428	171,650	169,704	+2.5	692,512	719,725
Primary metals.....	11,614	11,020	10,792	+5.4	+2.1	-2.1	11,988	11,589	11,508	11,697	+2.5	46,354	49,828
Iron and steel mills.....	5,292	5,018	4,815	+5.5	+4.2	-0.4	5,553	5,276	5,241	4,952	+12.1	21,113	21,276
Aluminum and nonferrous metals.....	5,075	4,828	4,808	+5.1	+0.4	-2.6	5,156	5,084	5,098	5,442	-5.3	20,303	23,420
Ferrous metal foundries.....	1,247	1,174	1,169	+6.2	+0.4	-6.9	1,279	1,229	1,169	1,303	-1.8	4,938	5,132
Fabricated metal products.....	20,116	19,866	19,306	+1.3	+2.9	-1.5	20,435	20,722	19,265	19,915	+2.6	78,741	80,868
Machinery.....	22,767	21,783	22,098	+4.5	-1.4	-0.3	23,354	23,829	21,369	23,944	-2.5	88,491	99,334
Construction machinery.....	1,762	1,585	1,408	+11.2	+12.6	-5.4	1,984	1,915	1,596	1,669	+18.9	6,949	6,984
Mining, oil field, and gas field machinery.....	988	973	978	+1.5	-0.5	-2.9	931	1,020	1,033	1,007	-7.5	3,964	4,229
Industrial machinery.....	3,663	3,527	3,348	+3.9	+5.3	+11.7	3,909	3,359	2,998	3,545	+10.3	13,318	15,162
Photographic equipment.....	1,355	1,323	1,279	+2.4	+3.4	+2.1	1,276	1,380	1,122	1,198	+6.5	4,875	4,807
Ventilation, heating, air-conditioning, and refrigeration equipment.....	2,693	2,521	2,421	+6.8	+4.1	-8.3	2,786	2,766	2,276	2,657	+4.9	10,224	10,791
Metalworking machinery.....	2,010	1,957	1,974	+2.7	-0.9	-2.0	1,880	2,152	1,881	2,023	-7.1	7,555	8,777
Turbines, generators, and other power transmission equipment.....	2,282	1,924	2,829	+18.6	-32.0	-0.5	1,842	2,019	2,107	2,829	-34.9	7,903	12,616
Material handling equipment.....	1,401	1,395	1,327	+0.4	+5.1	-2.7	1,326	1,741	1,406	1,559	-14.9	5,818	7,471
Computers and electronic products ²	27,361	26,568	26,553	+3.0	+0.1	-1.6	24,125	30,736	24,856	24,977	-3.4	102,876	122,316
Electronic computers.....	4,626	4,761	5,294	-2.8	-10.1	-4.8	4,028	5,949	4,825	5,904	-31.8	19,195	27,439
Nondefense communications equipment.....	5,617	5,034	5,704	+11.6	-11.7	+0.9	4,931	5,728	5,171	5,549	-11.1	20,472	27,692
Defense communications equipment.....	280	282	292	-0.7	-3.4	-4.9	234	306	305	291	-19.6	1,118	1,219
Semiconductors ³	(NA)	(NA)	7,007	(NA)	(NA)	-5.7	(NA)	(NA)	7,023	5,731	(NA)	(NA)	27,759
Electronic components.....	4,192	4,115	3,657	+1.9	+12.5	+3.1	3,947	4,079	3,531	3,242	+21.7	15,329	17,190
Nondefense search and navigation equipment.....	665	689	632	-3.5	+9.0	-4.8	612	769	683	551	+11.1	2,668	2,681
Defense search and navigation equipment.....	1,747	1,615	1,328	+8.2	+21.6	+1.5	1,629	2,153	1,408	1,289	+26.4	6,453	7,596
Electromedical, measuring, and control instruments.....	5,614	5,661	5,200	-0.8	+8.9	-1.3	5,294	6,271	4,995	4,914	+7.7	21,289	20,800
Electrical equipment, appliances, and components.....	10,075	9,189	9,489	+9.6	-3.2	+4.8	9,838	9,823	9,553	10,146	-3.0	37,226	43,069
Electric lighting equipment.....	1,214	1,162	1,139	+4.5	+2.0	-1.2	1,138	1,221	1,172	1,094	+4.0	4,519	4,679
Household appliances.....	2,234	1,913	1,981	+16.8	-3.4	+7.4	2,123	1,969	2,002	1,800	+17.9	7,789	7,598
Electrical equipment.....	3,009	2,608	2,806	+15.4	-7.1	+12.6	2,878	2,933	2,858	2,766	+4.0	10,794	12,492
Transportation equipment.....	54,751	56,353	56,851	-2.8	-0.9	+11.3	53,141	63,503	57,112	49,989	+6.3	222,437	210,522
Motor vehicle bodies, parts, and trailers.....	18,512	17,035	16,647	+8.7	+2.3	-0.6	19,174	18,300	17,457	16,809	+14.1	71,245	67,487
Nondefense aircraft and parts.....	5,826	7,502	7,729	-22.3	-2.9	+60.5	3,756	8,766	6,867	6,938	-45.9	23,634	32,386
Defense aircraft and parts.....	2,510	5,750	4,724	-56.3	+21.7	+59.9	2,363	7,723	4,413	2,313	+2.2	18,259	10,079
Ships and boats.....	2,471	1,794	3,324	+37.7	-46.0	165.7	2,558	1,897	3,583	2,121	+20.6	9,237	10,790
Furniture and related products.....	5,791	5,533	5,577	+4.7	-0.8	-5.1	5,826	5,745	5,655	5,920	-1.6	22,834	24,166

^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. 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.

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 Apr. 02/01
	Apr. 2002 ^p	Mar. 2002 ^r	Feb. 2002	Mar. - Apr.	Feb. - Mar.	Jan. - Feb.	Apr. 2002 ^p	Mar. 2002 ^r	Feb. 2002	Apr. 2001	
All manufacturing industries ¹	522,666	524,983	523,470	-0.4	+0.3	+0.4	529,827	533,383	531,047	570,855	-7.2
Excluding transportation ¹	245,050	245,194	247,242	-0.1	-0.8	-0.8	248,169	247,834	250,706	278,212	-10.8
Excluding defense ¹	366,992	369,055	371,106	-0.6	-0.6	-0.3	369,942	372,900	376,321	424,329	-12.8
Durable goods industries ¹	522,666	524,983	523,470	-0.4	+0.3	+0.4	529,827	533,383	531,047	570,855	-7.2
Primary metals	16,466	16,490	16,807	-0.1	-1.9	-0.4	17,087	17,184	17,440	19,426	-12.0
Iron and steel mills	8,602	8,406	8,324	+2.3	+1.0	+1.2	9,043	8,816	8,709	9,262	-2.4
Aluminum and nonferrous metals	5,699	5,904	6,257	-3.5	-5.6	-2.0	5,838	6,126	6,449	7,888	-26.0
Ferrous metal foundries	2,165	2,180	2,226	-0.7	-2.1	-1.8	2,206	2,242	2,282	2,276	-3.1
Fabricated metal products	38,520	38,679	38,594	-0.4	+0.2	-0.9	38,920	38,922	38,534	42,687	-8.8
Machinery	53,996	54,224	55,309	-0.4	-2.0	-2.5	54,721	54,763	56,261	62,669	-12.7
Construction machinery	2,110	2,014	2,004	+4.8	+0.5	-3.8	2,322	2,165	2,226	2,477	-6.3
Mining, oil field, and gas field machinery	1,757	1,763	1,715	-0.3	+2.8	+3.2	1,763	1,778	1,729	1,489	+18.4
Industrial machinery	9,779	9,573	9,377	+2.2	+2.1	-0.1	9,967	9,424	9,590	11,180	-10.8
Photographic equipment	893	833	794	+7.2	+4.9	+1.9	895	833	806	799	+12.0
Ventilation, heating, air-conditioning, and refrigeration equipment	4,495	4,369	4,435	+2.9	-1.5	-0.2	4,640	4,426	4,447	4,955	-6.4
Metalworking machinery	3,768	3,878	3,945	-2.8	-1.7	-1.9	3,827	3,897	3,950	5,133	-25.4
Turbines, generators, and other power transmission equipment	17,362	17,671	18,787	-1.7	-5.9	-6.0	17,207	17,759	19,097	20,772	-17.2
Material handling equipment	5,337	5,454	5,557	-2.1	-1.9	-1.6	5,477	5,675	5,599	6,224	-12.0
Computers and electronic products ¹	109,607	109,543	109,915	+0.1	-0.3	-0.2	110,787	110,692	111,396	123,793	-10.5
Electronic computers	9,489	9,799	9,901	-3.2	-1.0	+2.3	9,246	9,666	9,771	10,131	-8.7
Nondefense communications equipment	37,983	37,889	38,232	+0.2	-0.9	+0.5	38,604	38,453	38,944	46,130	-16.3
Defense communications equipment	2,374	2,388	2,401	-0.6	-0.5	-0.5	2,386	2,435	2,448	2,693	-11.4
Semiconductors ²	(NA)	(NA)	16,291	(NA)	(NA)	+7.7	(NA)	(NA)	16,512	19,591	(NA)
Electronic components	15,518	15,257	14,991	+1.7	+1.8	-1.7	15,452	15,233	15,258	17,348	-10.9
Nondefense search and navigation equipment	3,997	4,024	4,047	-0.7	-0.6	-1.4	4,062	4,085	4,082	4,871	-16.6
Defense search and navigation equipment	28,101	28,209	28,420	-0.4	-0.7	-1.4	28,772	28,899	28,762	30,822	-6.7
Electromedical, measuring, and control instruments	12,145	11,977	11,923	+1.4	+0.5	+0.8	12,265	11,921	12,131	11,798	+4.0
Electrical equipment, appliances, and components	15,995	15,712	16,002	+1.8	-1.8	+0.9	16,154	15,877	16,475	18,541	-12.9
Electric lighting equipment	1,527	1,504	1,503	+1.5	+0.1	-1.3	1,514	1,466	1,488	1,558	-2.8
Household appliances	1,157	1,030	1,023	+12.3	+0.7	-1.6	1,146	1,126	1,287	1,083	+5.8
Electrical equipment	9,652	9,531	9,759	+1.3	-2.3	+1.6	9,719	9,551	9,907	9,826	-1.1
Transportation equipment	277,616	279,789	276,228	-0.8	+1.3	+1.5	281,658	285,549	280,341	292,643	-3.8
Motor vehicle bodies, parts, and trailers	12,184	12,081	11,880	+0.9	+1.7	+0.8	12,614	12,616	12,534	13,564	-7.0
Nondefense aircraft and parts	127,865	129,872	130,466	-1.5	-0.5	-0.3	127,719	131,071	131,574	151,910	-15.9
Defense aircraft and parts	60,577	61,217	58,560	-1.0	+4.5	+3.3	62,736	63,220	58,939	46,799	+34.1
Ships and boats	23,108	22,523	22,590	+2.6	-0.3	+7.1	23,703	23,102	23,363	23,656	+0.2
Furniture and related products	6,296	6,318	6,422	-0.3	-1.6	-0.5	6,202	6,107	6,211	6,672	-7.0

^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. 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.

² 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.

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

Industry	Seasonally Adjusted						Not Seasonally Adjusted				
	Monthly			Percent Change			Monthly				Percent Change Apr. 02/01
	Apr. 2002 ^p	Mar. 2002 ^r	Feb. 2002	Mar. - Apr.	Feb. - Mar.	Jan. - Feb.	Apr. 2002 ^p	Mar. 2002 ^r	Feb. 2002	Apr. 2001	
All manufacturing industries ¹	430,479	431,443	434,239	-0.2	-0.6	-0.5	431,555	428,653	436,626	472,060	-8.6
Excluding transportation ¹	359,023	360,027	361,166	-0.3	-0.3	-0.6	360,420	358,415	363,576	396,274	-9.1
Excluding defense ¹	407,928	409,021	411,644	-0.3	-0.6	-0.5	409,129	406,764	413,922	449,894	-9.1
Durable goods industries ¹	267,668	268,472	271,121	-0.3	-1.0	-0.7	268,293	266,232	272,870	298,606	-10.2
Wood products.....	9,397	9,482	9,281	-0.9	+2.2	+0.6	9,226	9,526	9,493	9,629	-4.2
Nonmetallic mineral products.....	9,069	9,118	9,122	-0.5	0.0	-0.8	9,252	9,312	9,314	10,307	-10.2
Primary metals.....	18,687	18,775	19,096	-0.5	-1.7	-1.3	18,654	18,707	19,184	21,792	-14.4
Iron and steel mills.....	10,050	10,160	10,265	-1.1	-1.0	-1.4	9,917	9,982	10,211	11,694	-15.2
Aluminum and nonferrous metals.....	6,928	6,909	7,110	+0.3	-2.8	-1.3	6,980	6,987	7,229	8,213	-15.0
Ferrous metal foundries.....	1,709	1,706	1,721	+0.2	-0.9	-1.0	1,757	1,738	1,744	1,885	-6.8
Fabricated metal products.....	31,829	31,981	32,072	-0.5	-0.3	-0.8	32,066	32,206	32,250	35,425	-9.5
Machinery.....	47,284	47,586	47,851	-0.6	-0.6	-0.5	47,587	47,703	48,489	51,868	-8.3
Farm machinery.....	1,967	1,972	1,985	-0.3	-0.7	+0.1	1,995	2,061	2,108	2,226	-10.4
Construction machinery.....	4,007	4,009	4,079	0.0	-1.7	+1.9	4,054	4,111	4,180	3,938	+2.9
Mining, oil field, and gas field machinery.....	2,685	2,737	2,731	-1.9	+0.2	-0.1	2,682	2,710	2,656	2,741	-2.2
Industrial machinery.....	8,011	8,055	8,071	-0.5	-0.2	-1.2	8,011	8,021	8,176	9,266	-13.5
Photographic equipment.....	2,254	2,251	2,207	+0.1	+2.0	-0.1	2,291	2,230	2,248	2,453	-6.6
Ventilation, heating, air-conditioning, and refrigeration equipment.....	4,300	4,333	4,353	-0.8	-0.5	+0.2	4,443	4,383	4,404	5,021	-11.5
Metalworking machinery.....	5,277	5,384	5,509	-2.0	-2.3	-1.8	5,284	5,268	5,435	6,164	-14.3
Turbines, generators, and other power transmission equipment.....	5,908	5,905	5,898	+0.1	+0.1	+0.3	5,950	5,874	6,026	5,581	+6.6
Material handling equipment.....	2,285	2,306	2,313	-0.9	-0.3	-0.6	2,350	2,391	2,388	2,722	-13.7
Computers and electronic products ¹	40,521	40,643	40,974	-0.3	-0.8	-1.7	40,580	39,228	41,138	50,516	-19.7
Electronic computers.....	3,034	3,049	2,940	-0.5	+3.7	-0.2	3,042	2,890	2,970	3,676	-17.2
Computer storage devices.....	1,298	1,305	1,305	-0.5	0.0	-0.3	1,375	1,232	1,416	2,006	-31.5
Nondefense communications equipment.....	7,571	7,573	7,672	0.0	-1.3	-3.5	7,416	7,204	7,727	10,938	-32.2
Defense communications equipment.....	553	540	549	+2.4	-1.6	+0.2	560	529	545	574	-2.4
Audio and video equipment.....	1,029	1,001	987	+2.8	+1.4	-0.2	942	860	959	1,029	-8.5
Semiconductors ²	(NA)	(NA)	7,234	(NA)	(NA)	+1.8	(NA)	(NA)	7,327	8,691	(NA)
Electronic components.....	7,802	7,802	7,744	0.0	+0.7	-1.0	7,798	7,607	7,722	9,759	-20.1
Nondefense search and navigation equipment.....	2,838	2,826	2,830	+0.4	-0.1	+0.3	2,904	2,766	2,834	2,754	+5.4
Defense search and navigation equipment.....	3,108	3,126	3,157	-0.6	-1.0	-0.4	3,163	3,061	3,109	3,323	-4.8
Electromedical, measuring and control instruments.....	9,957	9,946	10,145	+0.1	-2.0	-2.5	9,978	9,760	10,206	11,865	-15.9
Electrical equipment, appliances, and components.....	14,262	14,296	14,418	-0.2	-0.8	-0.7	14,571	14,378	14,749	16,295	-10.6
Electric lighting equipment.....	1,654	1,678	1,677	-1.4	+0.1	-1.3	1,669	1,643	1,683	1,795	-7.0
Household appliances.....	2,450	2,424	2,431	+1.1	-0.3	+1.2	2,603	2,482	2,520	2,641	-1.4
Electrical equipment.....	4,787	4,800	4,865	-0.3	-1.3	-1.4	4,835	4,777	4,987	5,080	-4.8
Batteries.....	739	740	747	-0.1	-0.9	-0.3	743	728	739	814	-8.7
Transportation equipment.....	71,456	71,416	73,073	+0.1	-2.3	-0.2	71,135	70,238	73,050	75,786	-6.1
Automobiles.....	1,877	1,856	1,857	+1.1	-0.1	-4.9	1,912	1,855	1,851	2,295	-16.7
Light trucks and utility vehicles.....	1,639	1,546	1,493	+6.0	+3.5	-2.7	1,693	1,524	1,429	1,836	-7.8
Heavy duty trucks.....	816	807	827	+1.1	-2.4	+4.0	806	811	844	1,003	-19.6
Motor vehicle bodies, parts, and trailers.....	15,694	15,517	15,348	+1.1	+1.1	-0.5	15,513	15,310	15,347	16,981	-8.6
Nondefense aircraft and parts.....	28,774	29,269	30,896	-1.7	-5.3	+0.1	28,722	28,857	30,701	31,374	-8.5
Defense aircraft and parts.....	10,684	10,471	10,526	+2.0	-0.5	-1.5	10,548	10,222	10,750	9,847	+7.1
Ships and boats.....	2,331	2,355	2,352	-1.0	+0.1	+1.1	2,351	2,377	2,373	2,348	+0.1
Furniture and related products.....	7,369	7,405	7,472	-0.5	-0.9	-0.8	7,355	7,300	7,395	8,726	-15.7
Miscellaneous durable goods.....	17,794	17,770	17,762	+0.1	0.0	+0.1	17,867	17,634	17,808	18,262	-2.2
Nondurable goods industries.....	162,811	162,971	163,118	-0.1	-0.1	-0.3	163,262	162,421	163,756	173,454	-5.9
Food products.....	29,651	29,526	29,556	+0.4	-0.1	-0.3	29,087	28,945	29,741	28,900	+0.6
Grain and oilseed milling.....	3,290	3,324	3,361	-1.0	-1.1	-1.2	3,320	3,383	3,487	3,373	-1.6
Dairy products.....	3,154	3,140	3,124	+0.4	+0.5	+0.2	3,243	3,113	3,106	3,055	+6.2
Meat, poultry, and seafood products.....	6,079	6,071	6,028	+0.1	+0.7	-0.2	6,138	6,129	6,095	5,712	+7.5
Beverage and tobacco products.....	13,879	14,028	13,880	-1.1	+1.1	-0.4	13,803	14,110	14,192	13,721	+0.6
Beverages.....	8,354	8,371	8,415	-0.2	-0.5	-0.9	8,376	8,427	8,379	8,273	+1.2
Tobacco.....	5,525	5,657	5,465	-2.3	+3.5	+0.3	5,427	5,683	5,813	5,448	-0.4
Textile mills.....	5,573	5,671	5,759	-1.7	-1.5	-0.8	5,682	5,651	5,799	6,908	-17.7
Textile products.....	4,320	4,313	4,340	+0.2	-0.6	-1.0	4,416	4,300	4,333	4,872	-9.4
Apparel.....	8,245	8,332	8,515	-1.0	-2.1	-2.0	8,207	8,175	8,388	10,281	-20.2
Leather and allied products.....	1,296	1,314	1,340	-1.4	-1.9	-2.4	1,278	1,283	1,317	1,551	-17.6
Paper products.....	15,242	15,365	15,433	-0.8	-0.4	-0.3	15,324	15,450	15,583	15,947	-3.9
Pulp, paper, and paperboard mills.....	6,711	6,824	6,901	-1.7	-1.1	-0.2	6,790	6,914	6,994	7,204	-5.7
Paperboard containers.....	4,174	4,200	4,185	-0.6	+0.4	-0.6	4,152	4,174	4,202	4,449	-6.7
Printing.....	5,651	5,594	5,704	+1.0	-1.9	-4.1	5,603	5,495	5,527	6,467	-13.4
Petroleum and coal products.....	12,212	12,161	11,703	+0.4	+3.9	+2.4	12,488	11,974	11,318	13,459	-7.2
Petroleum refineries.....	10,553	10,500	9,960	+0.5	+5.4	+2.6	10,794	10,313	9,608	11,557	-6.6
Basic chemicals.....	49,817	49,720	49,916	+0.2	-0.4	-0.1	50,094	49,761	50,274	52,576	-4.7
Pesticides, fertilizers, and other agricultural chemicals.....	2,545	2,603	2,634	-2.2	-1.2	-0.5	2,741	3,029	3,080	3,205	-14.5
Pharmaceuticals and medicines.....	18,828	18,650	18,548	+1.0	+0.5	+1.4	18,726	18,336	18,370	17,617	+6.3
Paints, coatings, and adhesives.....	3,156	3,157	3,176	0.0	-0.6	+0.2	3,216	3,248	3,185	3,405	-5.6
Plastics and rubber products.....	16,925	16,947	16,972	-0.1	-0.1	-0.1	17,280	17,277	17,284	18,772	-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 3² 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 Apr. 02/01	Year to date	
	Apr. 2002 ^p	Mar. 2002 ^r	Feb. 2002	Mar. - Apr.	Feb. - Mar.	Jan. - Feb.	Apr. 2002 ^p	Mar. 2002 ^r	Feb. 2002	Apr. 2001		2002 ^p	2001
SHIPMENTS													
All manufacturing industries ⁵	326,184	318,668	315,152	+2.4	+1.1	-2.9	323,323	336,687	305,353	322,911	+0.1	1,257,568	1,315,573
Construction materials and supplies.....	33,600	32,662	31,919	+2.9	+2.3	-3.0	33,983	32,766	30,399	32,657	+4.1	126,293	127,359
Information technology.....	27,727	27,437	27,163	+1.1	+1.0	-3.6	24,709	31,955	24,782	28,011	-11.8	104,247	126,138
Capital goods.....	66,146	66,057	65,468	+0.1	+0.9	-2.1	62,636	74,650	60,881	65,845	-4.9	253,172	282,282
Nondefense capital goods ³	59,074	59,078	59,109	0.0	-0.1	-1.2	55,926	66,960	54,870	60,387	-7.4	226,988	260,108
Excluding aircraft.....	54,951	54,534	54,924	+0.8	-0.7	-1.6	52,009	61,634	51,073	56,944	-8.7	211,148	243,647
Defense capital goods ⁴	7,072	6,979	6,359	+1.3	+9.7	-9.4	6,710	7,690	6,011	5,458	+22.9	26,184	22,174
Consumer goods.....	125,876	122,940	122,171	+2.4	+0.6	-3.9	124,599	126,847	118,927	125,182	-0.5	488,210	501,548
Consumer durable goods.....	36,539	33,243	34,101	+9.9	-2.5	-7.2	37,375	36,439	34,619	33,510	+11.5	141,688	135,353
Consumer nondurable goods.....	89,337	89,697	88,070	-0.4	+1.8	-2.5	87,224	90,408	84,308	91,672	-4.9	346,522	366,195
NEW ORDERS													
All manufacturing industries ⁵	323,867	320,181	317,123	+1.2	+1.0	+0.2	319,767	339,023	309,658	319,734	0.0	1,261,593	1,319,744
Construction materials and supplies.....	33,484	32,552	31,924	+2.9	+2.0	-2.3	34,060	32,918	30,700	32,444	+5.0	126,846	127,005
Information technology.....	27,602	26,768	27,244	+3.1	-1.7	-1.8	24,688	31,244	25,545	26,967	-8.5	104,760	126,335
Capital goods.....	63,889	66,206	66,040	-3.5	+0.3	+11.4	58,725	75,624	62,508	62,767	-6.4	249,696	284,371
Nondefense capital goods ³	56,779	55,545	57,329	+2.2	-3.1	+4.6	52,714	62,581	54,231	57,946	-9.0	217,600	258,631
Excluding aircraft.....	54,581	52,492	54,331	+4.0	-3.4	+0.9	52,067	58,655	52,156	55,141	-5.6	209,755	242,823
Defense capital goods ⁴	7,110	10,661	8,711	-33.3	+22.4	+94.7	6,011	13,043	8,277	4,821	+24.7	32,096	25,740
Consumer goods.....	125,972	123,042	121,914	+2.4	+0.9	-3.8	124,670	126,585	118,776	124,453	+0.2	488,171	499,592
Consumer durable goods.....	36,635	33,345	33,844	+9.9	-1.5	-6.8	37,446	36,177	34,468	32,781	+14.2	141,649	133,397
UNFILLED ORDERS													
All manufacturing industries ⁵	522,666	524,983	523,470	-0.4	+0.3	+0.4	529,827	533,383	531,047	570,855	-7.2	(X)	(X)
Construction materials and supplies.....	32,154	32,270	32,380	-0.4	-0.3	0.0	32,427	32,350	32,198	35,714	-9.2	(X)	(X)
Information technology.....	98,641	98,766	99,435	-0.1	-0.7	+0.1	100,005	100,026	100,737	113,318	-11.7	(X)	(X)
Capital goods.....	369,552	371,809	371,660	-0.6	0.0	+0.2	374,262	378,173	377,199	407,233	-8.1	(X)	(X)
Nondefense capital goods ³	232,924	235,219	238,752	-1.0	-1.5	-0.7	234,389	237,601	241,980	279,167	-16.0	(X)	(X)
Excluding aircraft.....	138,946	139,316	141,358	-0.3	-1.4	-0.4	140,557	140,499	143,478	161,889	-13.2	(X)	(X)
Defense capital goods ⁴	136,628	136,590	132,908	0.0	+2.8	+1.8	139,873	140,572	135,219	128,066	+9.2	(X)	(X)
Consumer goods.....	8,996	8,900	8,798	+1.1	+1.2	-2.8	9,098	9,027	9,289	8,924	+1.9	(X)	(X)
Consumer durable goods.....	8,996	8,900	8,798	+1.1	+1.2	-2.8	9,098	9,027	9,289	8,924	+1.9	(X)	(X)
TOTAL INVENTORIES													
All manufacturing industries ⁵	430,479	431,443	434,239	-0.2	-0.6	-0.5	431,555	428,653	436,626	472,060	-8.6	(X)	(X)
Construction materials and supplies.....	44,719	45,069	44,999	-0.8	+0.2	-0.4	44,908	45,532	45,546	49,127	-8.6	(X)	(X)
Information technology.....	39,605	39,746	40,135	-0.4	-1.0	-1.6	39,794	38,599	40,484	49,175	-19.1	(X)	(X)
Capital goods.....	133,546	134,539	136,963	-0.7	-1.8	-0.6	133,958	132,665	137,595	150,648	-11.1	(X)	(X)
Nondefense capital goods ³	114,820	115,858	118,195	-0.9	-2.0	-0.8	115,214	114,374	118,953	131,636	-12.5	(X)	(X)
Excluding aircraft.....	93,306	93,703	94,466	-0.4	-0.8	-0.9	93,863	92,611	95,419	107,399	-12.6	(X)	(X)
Defense capital goods ⁴	18,726	18,681	18,768	+0.2	-0.5	+0.4	18,744	18,291	18,642	19,012	-1.4	(X)	(X)
Consumer goods.....	125,070	124,881	124,478	+0.2	+0.3	0.0	124,778	123,604	124,575	129,982	-4.0	(X)	(X)
Consumer durable goods.....	26,391	26,224	26,185	+0.6	+0.1	-0.3	26,486	26,084	26,389	29,044	-8.8	(X)	(X)
Consumer nondurable goods.....	98,679	98,657	98,293	0.0	+0.4	+0.1	98,292	97,520	98,186	100,938	-2.6	(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. 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**
(Millions of Dollars)

Industry	Seasonally Adjusted						Not Seasonally Adjusted				
	Monthly			Percent Change			Monthly				Percent Change Apr. 02/01
	Apr. 2002 ^a	Mar. 2002 ^r	Feb. 2002	Mar. - Apr.	Feb. - Mar.	Jan. - Feb.	Apr. 2002 ^p	Mar. 2002 ^r	Feb. 2002	Apr. 2001	
MATERIALS AND SUPPLIES											
All manufacturing industries ¹	142,039	142,163	142,200	-0.1	0.0	-0.3	141,228	141,030	142,400	155,751	-9.3
Durable goods industries ¹	85,434	85,674	85,472	-0.3	+0.2	-0.6	84,466	84,471	85,599	94,694	-10.8
Wood products	3,763	3,825	3,721	-1.6	+2.8	+1.9	3,390	3,655	3,814	3,512	-3.5
Nonmetallic mineral products	3,239	3,238	3,220	0.0	+0.6	-1.0	3,192	3,196	3,201	3,360	-5.0
Primary metals	6,175	6,192	6,284	-0.3	-1.5	-2.5	6,035	6,003	6,188	7,249	-16.7
Fabricated metal products	10,277	10,393	10,328	-1.1	+0.6	+0.1	10,219	10,341	10,278	10,975	-6.9
Machinery	16,850	17,069	17,169	-1.3	-0.6	-0.7	16,905	16,970	17,269	18,411	-8.2
Computers and electronic products ¹	13,755	13,728	13,925	+0.2	-1.4	-2.8	13,515	13,411	13,867	17,703	-23.7
Electrical equipment, appliances, and components	5,212	5,227	5,286	-0.3	-1.1	-0.9	5,228	5,180	5,374	6,326	-17.4
Transportation equipment	16,753	16,551	16,225	+1.2	+2.0	+0.9	16,551	16,281	16,327	17,241	-4.0
Furniture and related products	3,043	3,066	3,071	-0.8	-0.2	+1.7	3,043	3,070	3,058	3,469	-12.3
Miscellaneous products	6,367	6,385	6,243	-0.3	+2.3	0.0	6,388	6,364	6,223	6,448	-0.9
Nondurable goods industries	56,605	56,489	56,728	+0.2	-0.4	+0.1	56,762	56,559	56,801	61,057	-7.0
Food products	10,008	10,032	10,140	-0.2	-1.1	-0.3	10,031	10,013	10,175	10,656	-5.9
Beverage and tobacco products	5,755	5,892	5,854	-2.3	+0.6	-0.4	5,811	5,993	6,012	5,917	-1.8
Textiles	1,464	1,479	1,487	-1.0	-0.5	+0.2	1,478	1,480	1,499	1,865	-20.8
Textile products	1,441	1,449	1,464	-0.6	-1.0	-0.9	1,452	1,441	1,452	1,690	-14.1
Apparel	1,852	1,856	1,867	-0.2	-0.6	-0.7	1,910	1,880	1,849	2,438	-21.7
Leather and allied products	305	314	320	-2.9	-1.9	-0.6	302	308	311	432	-30.1
Paper products	7,131	7,168	7,308	-0.5	-1.9	-0.2	7,143	7,226	7,375	7,601	-6.0
Printing	2,373	2,316	2,430	+2.5	-4.7	-3.9	2,305	2,323	2,393	2,906	-20.7
Petroleum and coal products	3,740	3,636	3,514	+2.9	+3.5	+7.1	3,856	3,617	3,372	3,948	-2.3
Basic chemicals	15,596	15,360	15,377	+1.5	-0.1	+0.2	15,516	15,276	15,383	16,155	-4.0
Plastics and rubber products	6,940	6,987	6,967	-0.7	+0.3	+0.1	6,958	7,002	6,980	7,449	-6.6
WORK IN PROCESS											
All manufacturing industries ¹	124,471	125,447	128,493	-0.8	-2.4	-0.6	124,746	124,098	128,550	138,303	-9.8
Durable goods industries ¹	96,836	97,621	100,571	-0.8	-2.9	-0.9	97,042	96,558	100,669	108,938	-10.9
Wood products	1,872	1,889	1,900	-0.9	-0.6	+1.8	1,906	1,914	1,942	1,966	-3.1
Nonmetallic mineral products	1,291	1,283	1,282	+0.6	+0.1	-1.5	1,355	1,349	1,334	1,572	-13.8
Primary metals	6,293	6,276	6,453	+0.3	-2.7	-1.3	6,299	6,289	6,498	7,329	-14.1
Fabricated metal products	10,633	10,643	10,716	-0.1	-0.7	-0.5	10,591	10,608	10,698	11,646	-9.1
Machinery	13,860	13,735	13,879	+0.9	-1.0	-0.4	13,867	13,489	13,868	15,220	-8.9
Computers and electronic products ¹	14,071	14,365	14,565	-2.0	-1.4	-1.0	14,514	14,180	14,565	17,236	-15.8
Electrical equipment, appliances, and components	3,314	3,315	3,304	0.0	+0.3	-1.7	3,362	3,313	3,313	4,012	-16.2
Transportation equipment	41,003	41,641	43,958	-1.5	-5.3	-1.1	40,667	41,020	43,985	45,080	-9.8
Furniture and related products	1,527	1,519	1,499	+0.5	+1.3	-1.6	1,518	1,507	1,508	1,781	-14.8
Miscellaneous products	2,972	2,955	3,015	+0.6	-2.0	-1.0	2,963	2,889	2,958	3,096	-4.3
Nondurable goods industries	27,635	27,826	27,922	-0.7	-0.3	+0.4	27,704	27,540	27,881	29,365	-5.7
Food products	2,459	2,470	2,518	-0.4	-1.9	+1.3	2,314	2,407	2,532	2,395	-3.4
Beverage and tobacco products	3,299	3,378	3,332	-2.3	+1.4	+0.7	3,207	3,398	3,459	3,176	+1.0
Textiles	1,357	1,386	1,426	-2.1	-2.8	-1.0	1,378	1,391	1,439	1,783	-22.7
Textile products	868	873	878	-0.6	-0.6	+0.2	888	863	872	956	-7.1
Apparel	1,518	1,545	1,570	-1.7	-1.6	-2.0	1,556	1,525	1,563	2,076	-25.0
Leather and allied products	138	142	142	-2.8	0.0	-2.7	139	143	140	228	-39.0
Paper products	1,369	1,386	1,355	-1.2	+2.3	-2.6	1,339	1,373	1,382	1,401	-4.4
Printing	1,653	1,661	1,619	-0.5	+2.6	-3.9	1,661	1,595	1,533	1,875	-11.4
Petroleum and coal products	2,957	2,896	2,614	+2.1	+10.8	-0.2	3,069	2,892	2,546	2,920	+5.1
Basic chemicals	9,754	9,817	10,158	-0.6	-3.4	+2.2	9,833	9,623	10,041	10,029	-2.0
Plastics and rubber products	2,263	2,272	2,310	-0.4	-1.6	-0.7	2,320	2,330	2,374	2,526	-8.2
FINISHED GOODS											
All manufacturing industries ¹	163,969	163,833	163,546	+0.1	+0.2	-0.7	165,581	163,525	165,676	178,006	-7.0
Durable goods industries ¹	85,398	85,177	85,078	+0.3	+0.1	-0.5	86,785	85,203	86,602	94,974	-8.6
Wood products	3,762	3,768	3,660	-0.2	+3.0	-1.5	3,930	3,957	3,737	4,151	-5.3
Nonmetallic mineral products	4,539	4,597	4,620	-1.3	-0.5	-0.5	4,705	4,767	4,779	5,375	-12.5
Primary metals	6,219	6,307	6,359	-1.4	-0.8	-0.3	6,320	6,415	6,498	7,214	-12.4
Fabricated metal products	10,919	10,945	11,028	-0.2	-0.8	-1.9	11,256	11,257	11,274	12,804	-12.1
Machinery	16,574	16,782	16,803	-1.2	-0.1	-0.3	16,815	17,244	17,352	18,237	-7.8
Computers and electronic products ¹	12,695	12,550	12,484	+1.2	+0.5	-1.4	12,551	11,637	12,706	15,577	-19.4
Electrical equipment, appliances, and components	5,736	5,754	5,828	-0.3	-1.3	+0.1	5,981	5,885	6,062	5,957	+0.4
Transportation equipment	13,700	13,224	12,890	+3.6	+2.6	+1.3	13,917	12,937	12,738	13,465	+3.4
Furniture and related products	2,799	2,820	2,902	-0.7	-2.8	-3.0	2,794	2,723	2,829	3,476	-19.6
Miscellaneous products	8,455	8,430	8,504	+0.3	-0.9	+0.5	8,516	8,381	8,627	8,718	-2.3
Nondurable goods industries	78,571	78,656	78,468	-0.1	+0.2	-0.9	78,796	78,322	79,074	83,032	-5.1
Food products	17,184	17,024	16,898	+0.9	+0.7	-0.6	16,742	16,525	17,034	15,849	+5.6
Beverage and tobacco products	4,825	4,758	4,694	+1.4	+1.4	-1.2	4,785	4,719	4,721	4,628	+3.4
Textiles	2,752	2,806	2,846	-1.9	-1.4	-1.2	2,826	2,780	2,861	3,260	-13.3
Textile products	2,011	1,991	1,998	+1.0	-0.4	-1.5	2,076	1,996	2,009	2,226	-6.7
Apparel	4,875	4,931	5,078	-1.1	-2.9	-2.5	4,741	4,770	4,976	5,767	-17.8
Leather and allied products	853	858	878	-0.6	-2.3	-3.0	837	832	866	891	-6.1
Paper products	6,742	6,811	6,770	-1.0	+0.6	0.0	6,842	6,851	6,826	6,945	-1.5
Printing	1,625	1,617	1,655	+0.5	-2.3	-4.4	1,637	1,577	1,601	1,686	-2.9
Petroleum and coal products	5,515	5,629	5,575	-2.0	+1.0	+0.9	5,563	5,465	5,400	6,591	-15.6
Basic chemicals	24,467	24,543	24,381	-0.3	+0.7	-1.1	24,745	24,862	24,850	26,392	-6.2
Plastics and rubber products	7,722	7,688	7,695	+0.4	-0.1	-0.1	8,002	7,945	7,930	8,797	-9.0

^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			
	Apr 2002 ^p	Mar 2002 ^r	Feb 2002	Jan 2002	Apr 2002 ^p	Mar 2002 ^r	Feb 2002	Jan 2002
All manufacturing industries ²	1.32	1.35	1.38	1.35	(X)	(X)	(X)	(X)
Durable goods industries ²	1.49	1.55	1.57	1.54	4.18	4.30	4.32	4.22
Wood products.....	1.32	1.33	1.34	1.31	(X)	(X)	(X)	(X)
Nonmetallic mineral products.....	1.13	1.19	1.25	1.22	(X)	(X)	(X)	(X)
Primary metals.....	1.61	1.66	1.76	1.70	1.41	1.45	1.55	1.49
Fabricated metal products.....	1.57	1.62	1.63	1.60	2.01	2.07	2.07	2.03
Machinery.....	2.06	2.08	2.04	2.05	2.57	2.60	2.57	2.63
Computers and electronic products ²	1.48	1.51	1.53	1.51	4.83	4.86	4.92	4.82
Electrical equipment, appliances, and components.....	1.46	1.51	1.54	1.51	1.73	1.75	1.81	1.74
Transportation equipment.....	1.26	1.35	1.38	1.32	7.93	8.33	8.42	8.20
Furniture and related products.....	1.27	1.31	1.33	1.29	1.24	1.28	1.31	1.27
Miscellaneous products.....	1.81	1.84	1.86	1.85	(X)	(X)	(X)	(X)
Nondurable goods industries.....	1.11	1.12	1.14	1.12	(X)	(X)	(X)	(X)
Food products.....	0.78	0.77	0.77	0.76	(X)	(X)	(X)	(X)
Beverage and tobacco products.....	1.49	1.49	1.52	1.43	(X)	(X)	(X)	(X)
Textiles.....	1.46	1.57	1.61	1.64	(X)	(X)	(X)	(X)
Textile products.....	1.41	1.46	1.50	1.58	(X)	(X)	(X)	(X)
Apparel.....	1.63	1.71	1.71	1.70	(X)	(X)	(X)	(X)
Leather and allied products.....	2.07	2.14	2.11	2.13	(X)	(X)	(X)	(X)
Paper products.....	1.21	1.24	1.29	1.23	(X)	(X)	(X)	(X)
Printing.....	0.70	0.70	0.73	0.74	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.71	0.70	0.74	0.70	(X)	(X)	(X)	(X)
Basic chemicals.....	1.48	1.49	1.51	1.46	(X)	(X)	(X)	(X)
Plastics and rubber products.....	1.12	1.16	1.16	1.13	(X)	(X)	(X)	(X)

^p Preliminary

^r Revised

² 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		
	Apr ¹ 2002	Apr ² 1997- 2001	Apr 2001- Mar 2002	Apr ¹ 2002	Apr ² 1997- 2001	Apr 2001- Mar 2002	Apr ¹ 2002	Apr ² 1997- 2001	Apr 2001- Mar 2002	Apr ¹ 2002	Apr ² 1997- 2001	Apr 2001- Mar 2002
All manufacturing industries ³	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)
Durable goods industries ³	0.2	(NA)	(NA)	0.4	(NA)	(NA)	0.1	(NA)	(NA)	0.0	(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.....	0.5	(NA)	(NA)	0.3	(NA)	(NA)	-0.2	(NA)	(NA)	0.1	(NA)	(NA)
Fabricated metal products.....	0.2	(NA)	(NA)	0.0	(NA)	(NA)	-0.3	(NA)	(NA)	-0.1	(NA)	(NA)
Machinery.....	0.3	(NA)	(NA)	0.5	(NA)	(NA)	0.1	(NA)	(NA)	0.0	(NA)	(NA)
Computers and electronic products ³	-0.1	(NA)	(NA)	0.5	(NA)	(NA)	0.1	(NA)	(NA)	-0.2	(NA)	(NA)
Electrical equipment, appliances, and components.....	1.2	(NA)	(NA)	2.0	(NA)	(NA)	0.4	(NA)	(NA)	0.1	(NA)	(NA)
Transportation equipment.....	-0.3	(NA)	(NA)	-0.2	(NA)	(NA)	0.0	(NA)	(NA)	0.1	(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.