

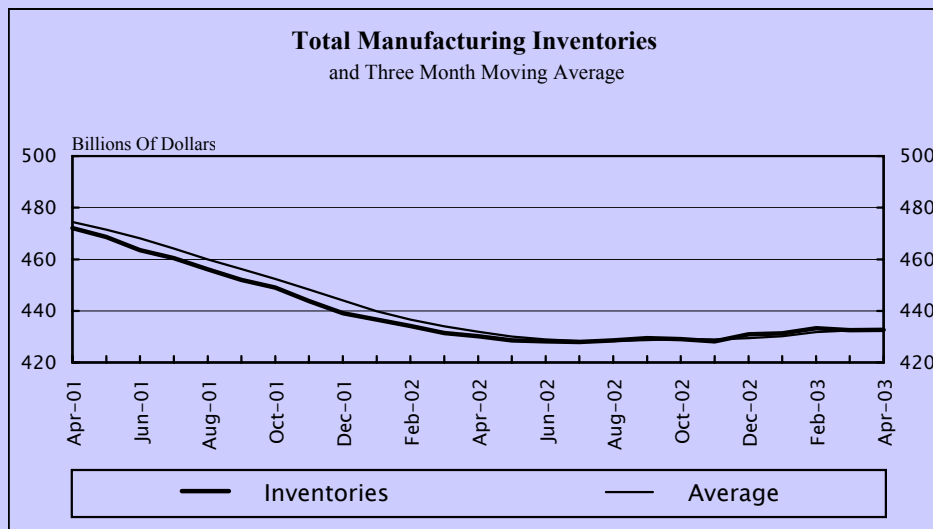
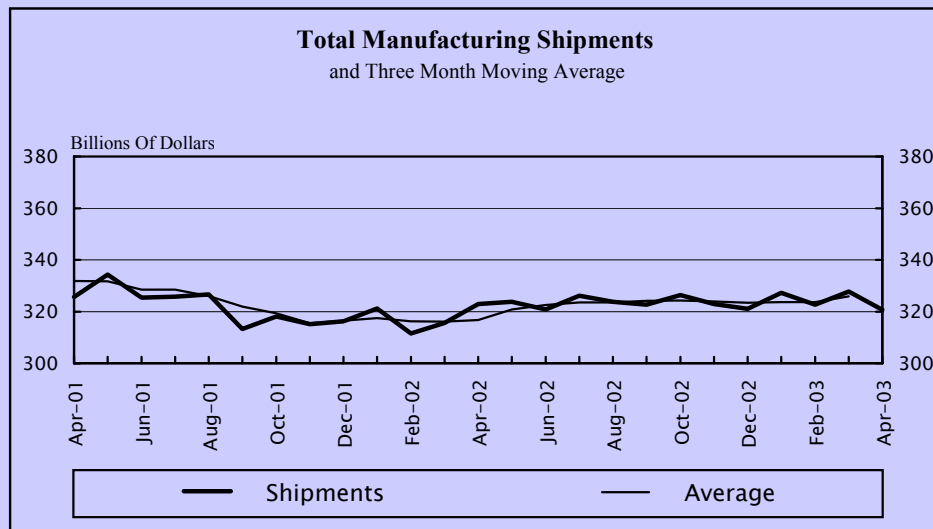
Manufacturers' Shipments, Inventories, and Orders: April 2003

Issued June 2003

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Current Industrial Reports

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

The advance report on durable goods for May is scheduled for June 25, 2003 at 8:30 a.m. and the full report on July 2, 2003 at 10:00 a.m.

For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington DC, 20402

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Figures in text, other than year to date, are in seasonally adjusted current dollars and **exclude data for semiconductor manufacturing.**

Summary

New orders for manufactured goods in April decreased \$9.4 billion or 2.9 percent to \$320.0 billion, the Department of Commerce, Census Bureau reported today. This was the largest percent decline since November 2001. This followed a 2.1 percent March increase. Year to date, new orders for 2003 were 2.9 percent above the same period a year ago.

Shipments decreased \$7.1 billion or 2.2 percent to \$320.6 billion. This was the largest percent decline since February 2002. This followed a 1.6 percent March increase. Year to date, shipments for 2003 were 2.2 percent above the same period a year ago.

Unfilled orders decreased \$0.6 billion or 0.1 percent to \$477.4 billion, following a 0.4 percent March increase. The unfilled orders-to-shipments ratio was 4.03, up from 4.01 in March.

Inventories increased \$0.1 billion to \$432.6 billion, following a 0.2 percent March decrease. The inventories-to-shipments ratio, the highest since March 2002, was 1.35, up from 1.32 in March.

New Orders

New orders for manufactured durable goods in April decreased \$3.9 billion or 2.3 percent to \$169.1 billion, revised from the previously published 2.4 percent decrease.

Transportation equipment had the largest decrease, \$2.7 billion or 5.1 percent to \$49.7 billion, led by defense aircraft and parts, which decreased by \$1.5 billion. Machinery decreased \$1.1 billion or 4.7 percent to \$21.7 billion.

New orders for manufactured nondurable goods decreased \$5.5 billion or 3.5 percent to \$150.8 billion.

Shipments

Shipments of manufactured durable goods in April decreased \$1.6 billion or 0.9 percent to \$169.8 billion, revised from the previously published 0.7 percent decrease.

Transportation equipment had the largest decrease, \$1.5 billion or 2.9 percent to \$49.7 billion. This decline was led by nondefense aircraft and parts, which decreased by \$0.7 billion, and light trucks and utility vehicles, which decreased by \$0.6 billion.

Shipments of manufactured nondurable goods decreased \$5.5 billion or 3.5 percent to \$150.8 billion. This was the largest percent decline since February 2002. Petroleum and coal products had the largest decrease, \$4.6 billion or 19.3 percent to \$19.0 billion.

Unfilled Orders

Unfilled orders for manufactured durable goods in April decreased \$0.6 billion or 0.1 percent to \$477.4 billion, revised from the previously published 0.3 percent decrease.

Machinery, down twenty-nine of the past thirty-one months, had the largest decrease, \$0.4 billion or 0.9 percent to \$44.6 billion.

Inventories

Inventories of manufactured durable goods in April decreased \$0.3 billion or 0.1 percent to \$263.2 billion, unrevised from the previously published 0.1 percent decrease. This was the twenty-sixth decrease over the past twenty-seven months.

Computers and electronic products, down eight of the last nine months, had the largest decrease, \$0.6 billion or 1.5 percent to \$39.9 billion.

Inventories of manufactured nondurable goods, at the down nine of the last eleven months, increased \$0.5 billion or 0.3 percent to \$169.5 billion. Plastics and rubber products had the largest increase, \$0.2 billion or 1.2 percent to \$18.4 billion. Beverage and tobacco products also increased \$0.2 billion.

By stage of fabrication, April materials and supplies decreased 0.7 percent in durable goods and increased 0.4 percent in nondurable goods. Work in process increased 0.8 percent in durable goods and decreased 0.5 percent in nondurable goods. Finished goods decreased 0.7 percent in durable goods and increased 0.5 percent in nondurable goods.

With the cooperation of the Semiconductor Industry Association and many of its member companies, the Census Bureau will again be able to publish shipments data on this important sector of our economy. The Census Bureau will not publish orders data and will only publish inventory data at higher level aggregates. The first monthly press release which will contain the semiconductor data is the July advance report on durable goods to be issued on August 26. However, historic data up through June 2003 for all data series will be released, along with benchmark revisions, on August 19, 2003.

SEE BACK PAGE FOR SURVEY DESCRIPTION

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Table 1. Value of Manufacturers' Shipments for Industry Groups

[Millions of Dollars]

Industry	Seasonally Adjusted						Not Seasonally Adjusted ¹						
	Monthly			Percent Change			Monthly				Year to date		Percent Change 2003/2002
	Apr 2003 ^p	Mar 2003 ^r	Feb 2003	Mar - Apr	Feb - Mar	Jan - Feb	Apr 2003 ^p	Mar 2003 ^r	Feb 2003	Apr 2002	2003 ^p	2002	
All manufacturing industries ²	320,638	327,745	322,601	-2.2	1.6	-1.4	317,526	344,566	309,768	319,852	1,271,307	1,243,716	2.2
Excluding transportation ²	270,982	276,589	270,620	-2.0	2.2	-1.8	268,298	288,093	258,343	265,892	1,066,699	1,035,454	3.0
Excluding defense ²	311,771	319,241	313,890	-2.3	1.7	-1.5	309,329	335,065	301,712	312,923	1,238,566	1,215,051	1.9
With unfilled orders ²	118,441	119,189	118,902	-0.6	0.2	-1.6	116,013	129,455	114,310	120,756	467,013	474,790	-1.6
Durable goods industries ²	169,791	171,385	170,675	-0.9	0.4	-1.9	167,142	185,515	163,936	174,259	672,248	676,835	-0.7
Wood products.....	7,381	7,409	7,131	-0.4	3.9	-1.9	7,542	7,249	6,489	7,642	27,577	28,111	-1.9
Nonmetallic mineral products.....	8,309	8,312	8,198	0.0	1.4	-5.6	8,427	8,086	7,420	8,451	31,701	29,498	7.5
Primary metals.....	10,720	10,957	10,985	-2.2	-0.3	-3.2	11,071	11,393	10,696	11,708	44,252	44,282	-0.1
Iron and steel mills.....	5,088	5,168	5,143	-1.5	0.5	-2.1	5,240	5,388	4,944	5,290	20,726	19,891	4.2
Aluminum and nonferrous metals.....	4,373	4,500	4,540	-2.8	-0.9	-5.3	4,518	4,671	4,476	4,989	18,356	19,015	-3.5
Ferrous metal foundries.....	1,259	1,289	1,302	-2.3	-1.0	-0.2	1,313	1,334	1,276	1,429	5,170	5,376	-3.8
Fabricated metal products.....	20,286	20,552	20,606	-1.3	-0.3	-1.3	20,321	20,943	19,904	21,349	80,399	81,684	-1.6
Machinery.....	22,064	22,246	21,905	-0.8	1.6	-2.2	22,794	24,809	21,098	23,327	88,209	89,555	-1.5
Farm machinery.....	1,598	1,574	1,566	1.5	0.5	2.2	1,910	1,986	1,748	1,780	7,014	6,531	7.4
Construction machinery.....	1,695	1,536	1,556	10.4	-1.3	-6.1	1,906	1,870	1,569	1,920	6,766	6,982	-3.1
Mining, oil field, and gas field machinery.....	792	806	756	-1.7	6.6	0.7	767	886	737	743	3,076	2,937	4.7
Industrial machinery.....	3,098	3,301	3,252	-6.1	1.5	1.4	3,150	3,747	2,953	3,167	12,759	11,763	8.5
Photographic equipment.....	1,328	1,397	1,314	-4.9	6.3	-7.7	1,257	1,417	1,165	1,281	5,027	5,008	0.4
Ventilation, heating, air-conditioning, and refrigeration equipment.....	2,421	2,498	2,492	-3.1	0.2	-1.3	2,414	2,686	2,250	2,686	9,475	10,185	-7.0
Metalworking machinery.....	1,797	1,798	1,915	-0.1	-6.1	-4.5	1,669	1,880	1,668	1,968	6,742	7,576	-11.0
Turbines, generators, and other power transmission equipment.....	2,655	2,558	2,476	3.8	3.3	-4.8	2,600	2,784	2,497	2,511	10,069	11,451	-12.1
Material handling equipment.....	1,322	1,321	1,322	0.1	-0.1	-3.6	1,343	1,494	1,302	1,440	5,492	5,726	-4.1
Computers and electronic products ²	26,927	26,052	25,492	3.4	2.2	-4.7	23,935	30,427	23,390	23,445	99,651	100,058	-0.4
Computers.....	4,742	3,737	3,999	26.9	-6.6	-19.7	4,251	4,446	3,369	3,269	16,283	14,314	13.8
Computer storage devices.....	1,167	1,153	1,039	1.2	11.0	-4.0	862	1,721	814	903	4,161	4,679	-11.1
Other peripheral equipment.....	1,575	1,337	1,570	17.8	-14.8	-3.2	1,188	1,704	1,387	1,148	5,487	5,492	-0.1
Nondefense communications equipment.....	5,069	5,244	5,180	-3.3	1.2	-1.7	4,481	6,249	4,528	4,931	19,277	20,655	-6.7
Defense communications equipment.....	364	337	316	8.0	6.6	-1.6	357	373	309	295	1,330	1,237	7.5
Audio and video equipment.....	679	646	660	5.1	-2.1	-6.6	548	659	645	605	2,460	2,716	-9.4
Semiconductors ³	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electronic components.....	3,580	3,654	3,734	-2.0	-2.1	-2.6	3,416	3,896	3,613	3,995	14,202	16,156	-12.1
Nondefense search and navigation equipment.....	844	724	751	16.6	-3.6	4.3	768	765	736	670	2,886	2,896	-0.3
Defense search and navigation equipment.....	2,309	2,193	2,083	5.3	5.3	0.7	2,237	2,463	2,032	1,883	8,489	7,495	13.3
Electromedical, measuring, and control instruments.....	6,057	6,470	5,626	-6.4	15.0	-1.1	5,388	7,548	5,452	5,183	23,097	21,874	5.6
Electrical equipment, appliances, and components.....	8,602	8,644	8,568	-0.5	0.9	-4.3	8,398	9,324	8,142	8,981	33,590	34,979	-4.0
Electric lighting equipment.....	1,073	1,086	1,071	-1.2	1.4	-7.0	990	1,168	1,084	1,015	4,226	4,190	0.9
Household appliances.....	2,055	2,045	1,988	0.5	2.9	-1.3	2,052	2,179	1,888	2,071	7,797	7,833	-0.5
Electrical equipment.....	2,506	2,496	2,455	0.4	1.7	-5.8	2,326	2,838	2,295	2,492	9,635	9,960	-3.3
Batteries.....	478	483	467	-1.0	3.4	-3.1	427	477	393	500	1,683	1,921	-12.4
Transportation equipment.....	49,656	51,156	51,981	-2.9	-1.6	0.8	49,228	56,473	51,425	53,960	204,608	208,262	-1.8
Automobiles.....	7,479	7,790	7,840	-4.0	-0.6	-4.4	7,572	8,600	7,922	8,618	32,085	32,854	-2.3
Light trucks and utility vehicles.....	9,561	10,126	10,349	-5.6	-2.2	-2.5	9,558	11,380	10,273	10,877	41,489	40,672	2.0
Heavy duty trucks.....	1,084	1,094	1,020	-0.9	7.3	-4.1	1,111	1,107	991	1,147	4,168	4,038	3.2
Motor vehicle bodies, parts, and trailers.....	17,327	17,631	17,804	-1.7	-1.0	-1.7	18,042	18,663	18,047	20,205	72,393	74,219	-2.5
Nondefense aircraft and parts.....	5,306	5,980	6,071	-11.3	-1.5	28.0	4,819	7,099	5,956	6,015	21,465	26,972	-20.4
Defense aircraft and parts.....	3,363	3,299	3,249	1.9	1.5	0.4	2,899	3,671	2,819	2,474	11,969	10,177	17.6
Ships and boats.....	1,998	1,975	2,165	1.2	-8.8	1.2	2,031	2,278	2,202	1,855	8,144	6,968	16.9
Furniture and related products.....	5,365	5,342	5,386	0.4	-0.8	-4.0	5,294	5,504	5,453	5,618	21,545	22,270	-3.3
Miscellaneous durable goods.....	10,481	10,715	10,423	-2.2	2.8	-0.2	10,132	11,307	9,919	9,778	40,716	38,136	6.8
Nondurable goods industries.....	150,847	156,360	151,926	-3.5	2.9	-0.9	150,384	159,051	145,832	145,593	599,059	566,881	5.7
Food products.....	37,832	37,618	37,432	0.6	0.5	-1.6	36,728	38,347	36,409	36,148	147,580	147,983	-0.3
Grain and oilseed milling.....	4,143	4,142	4,108	0.0	0.8	1.0	4,017	4,129	4,248	3,903	16,411	16,129	1.7
Dairy products.....	5,357	5,267	5,159	1.7	2.1	-3.0	5,255	5,448	4,882	5,103	20,688	20,980	-1.4
Meat, poultry, and seafood products.....	10,801	10,788	11,205	0.1	-3.7	-0.1	10,770	10,806	10,963	11,056	43,110	44,185	-2.4
Beverage and tobacco products.....	8,787	9,083	8,456	-3.3	7.4	-2.6	8,777	9,060	7,901	8,947	33,550	35,479	-5.4
Beverages.....	5,859	5,855	5,816	0.1	0.7	-1.6	5,849	5,832	5,261	5,733	21,980	21,231	3.5
Tobacco.....	2,928	3,228	2,640	-9.3	22.3	-4.8	2,928	3,228	2,640	3,214	11,570	14,248	-18.8
Textile mills.....	3,342	3,310	3,405	1.0	-2.8	-3.5	3,270	3,556	3,329	3,664	13,262	13,876	-4.4
Textile products.....	3,063	3,070	3,019	-0.2	1.7	-1.5	3,129	3,205	2,927	3,212	11,828	11,792	0.3
Apparel.....	4,466	4,581	4,582	-2.5	0.0	-4.6	4,229	4,696	4,720	4,561	17,958	18,310	-1.9
Leather and allied products.....	773	760	762	1.7	-0.3	6.0	694	756	796	635	2,858	2,383	19.9
Paper products.....	13,220	13,501	12,856	-2.1	5.0	-1.7	13,004	13,472	12,569	12,214	51,805	48,017	7.9
Pulp, paper, and paperboard mills.....	5,681	5,938	5,425	-4.3	9.5	-6.3	5,615	5,912	5,435	5,691	22,663	22,265	1.8
Paperboard containers.....	3,769	3,777	3,751	-0.2	0.7	1.4	3,736	3,759	3,570	3,618	14,706	14,127	4.1
Printing.....	8,035	7,971	7,878	0.8	1.2	-1.2	7,793	8,103	7,460	7,710	30,744	30,619	0.4
Petroleum and coal products.....	19,023	23,575	22,000	-19.3	7.2	3.0	19,363	22,036	19,845	17,564	80,999	63,463	27.6
Petroleum refineries.....	17,419	21,962	20,471	-20.7	7.3	3.6	17,795	20,547	18,630	16,080	75,600	58,382	29.5
Basic chemicals.....	37,306	37,619	36,633	-0.8	2.7	-0.9	37,737	39,932	35,372	35,436	148,147	136,526	8.5
Pesticides, fertilizers, and other agricultural chemicals.....	1,446	1,508	1,565	-4.1	-3.6	-2.9	2,434	2,140	1,496	2,957	7,499	8,199	-8.5
Pharmaceuticals and medicines.....	9,115	9,239	8,807	-1.3	4.9	-1.7	8,990	9,619	8,267	8,287	35,745	34,692	3.0
Paints, coatings, and adhesives.....	2,394	2,363	2,329	1.3	1.5	-2.0	2,488	2,396	2,213	2,407	9,259	9,143	1.3
Plastics and rubber products.....	15,000	15,272	14,903	-1.8	2.5	-1.4	15,660	15,888	14,504	15,502	60,328	58,433	3.2

^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.² See footnote at end of Table 2.³ See footnote at end of Table 2.

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

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

[Millions of Dollars]

Industry	Seasonally Adjusted						Not Seasonally Adjusted ¹						
	Monthly			Percent Change			Monthly			Year to date		Percent Change 2003/ 2002	
	Apr 2003 ^p	Mar 2003 ^r	Feb 2003	Mar - Apr	Feb - Mar	Jan - Feb	Apr 2003 ^p	Mar 2003 ^r	Feb 2003	Apr 2002	2003 ^p		2002
All manufacturing industries ²	319,991	329,426	322,759	-2.9	2.1	-1.0	318,874	347,367	312,724	316,483	1,284,251	1,247,768	2.9
Excluding transportation ²	270,277	277,016	271,411	-2.4	2.1	-1.5	268,834	288,468	261,021	266,039	1,074,353	1,034,653	3.8
Excluding defense ²	309,971	317,632	312,209	-2.4	1.7	-1.9	308,697	333,354	302,363	310,390	1,241,722	1,211,638	2.5
With unfilled orders ²	117,794	120,870	119,060	-2.5	1.5	-0.4	117,361	132,256	117,266	117,387	479,957	478,842	0.2
Durable goods industries ²	169,144	173,066	170,833	-2.3	1.3	-1.1	168,490	188,316	166,892	170,890	685,192	680,887	0.6
Primary metals.....	10,558	10,364	10,871	1.9	-4.7	-2.8	10,834	10,868	11,047	11,624	44,265	44,813	-1.2
Iron and steel mills.....	4,932	4,656	5,111	5.9	-8.9	2.7	5,055	4,957	5,270	5,501	20,475	20,933	-2.2
Aluminum and nonferrous metals.....	4,364	4,444	4,434	-1.8	0.2	-9.3	4,475	4,613	4,451	4,733	18,517	18,517	0.0
Ferrous metal foundries.....	1,262	1,264	1,326	-0.2	-4.7	0.8	1,304	1,298	1,326	1,390	5,273	5,363	-1.7
Fabricated metal products.....	20,207	20,390	20,247	-0.9	0.7	-1.7	20,524	20,880	19,866	21,219	80,597	81,738	-1.4
Machinery.....	21,662	22,739	21,836	-4.7	4.1	-2.5	22,924	25,222	21,376	23,369	90,125	87,884	2.5
Construction machinery.....	1,718	1,547	1,494	11.1	3.5	-6.6	2,012	1,847	1,566	2,073	6,923	7,289	-5.0
Mining, oil field, and gas field machinery.....	763	802	684	-4.9	17.3	-8.1	738	882	665	683	2,964	3,029	-2.1
Industrial machinery.....	2,788	3,900	2,821	-28.5	38.2	-28.5	3,126	4,128	2,503	3,694	13,851	12,454	11.2
Photographic equipment.....	1,342	1,476	1,476	-9.1	0.0	6.0	1,282	1,514	1,328	1,347	5,331	5,134	3.8
Ventilation, heating, air-conditioning, and refrigeration equipment.....	2,473	2,515	2,536	-1.7	-0.8	5.0	2,607	2,728	2,349	2,871	9,899	10,662	-7.2
Metalworking machinery.....	1,707	1,750	1,895	-2.5	-7.7	-2.1	1,594	1,845	1,743	1,915	6,714	7,529	-10.8
Turbines, generators, and other power transmission equipment.....	2,377	2,056	2,513	15.6	-18.2	10.9	2,312	2,177	2,523	2,040	8,910	8,306	7.3
Material handling equipment.....	1,398	1,454	1,419	-3.9	2.5	21.6	1,359	1,771	1,453	1,273	5,711	5,496	3.9
Computers and electronic products ²	26,888	26,802	26,177	0.3	2.4	-4.2	24,286	31,172	24,649	23,615	104,241	100,491	3.7
Computers.....	4,656	3,907	3,842	19.2	1.7	-18.6	4,038	4,611	3,387	2,965	15,982	14,197	12.6
Nondefense communications equipment.....	5,885	6,021	5,955	-2.3	1.1	0.0	5,555	7,173	5,432	5,048	23,735	21,280	11.5
Defense communications equipment.....	335	370	416	-9.5	-11.1	14.6	328	406	409	244	1,476	1,166	26.6
Semiconductors ³	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electronic components.....	2,661	3,033	3,514	-12.3	-13.7	-0.7	2,483	3,021	3,456	4,228	12,366	16,346	-24.3
Nondefense search and navigation equipment.....	802	745	596	7.7	25.0	-27.1	711	872	611	627	2,962	2,849	4.0
Defense search and navigation equipment.....	2,681	2,295	2,211	16.8	3.8	-2.7	2,745	2,809	2,285	1,728	9,919	6,940	42.9
Electromedical, measuring, and control instruments.....	5,906	6,738	5,840	-12.3	15.4	1.2	5,389	7,593	5,718	5,556	23,714	22,282	6.4
Electrical equipment, appliances, and components.....	8,673	8,841	8,574	-1.9	3.1	-1.7	8,408	9,402	8,386	9,158	33,932	34,856	-2.7
Electric lighting equipment.....	992	1,077	1,071	-7.9	0.6	-10.8	900	1,165	1,086	1,066	4,217	4,213	0.1
Household appliances.....	2,419	2,096	2,030	15.4	3.3	3.4	2,332	2,133	1,991	2,092	8,146	7,689	5.9
Electrical equipment.....	2,535	2,682	2,443	-5.5	9.8	-2.0	2,393	2,972	2,399	2,556	9,902	9,834	0.7
Transportation equipment.....	49,714	52,410	51,348	-5.1	2.1	1.8	50,040	58,899	51,703	50,444	209,898	213,115	-1.5
Motor vehicle bodies, parts, and trailers.....	17,231	17,501	17,908	-1.5	-2.3	-1.0	17,824	18,439	18,384	20,181	72,715	74,884	-2.9
Nondefense aircraft and parts.....	4,427	2,980	3,588	48.6	-16.9	-30.5	4,125	4,387	3,810	3,224	17,067	21,631	-21.1
Defense aircraft and parts.....	4,287	5,823	2,449	-26.4	137.8	3.4	4,710	6,386	2,854	1,977	16,866	16,657	1.3
Ships and boats.....	1,630	1,748	2,061	-6.8	-15.2	4.2	1,722	2,108	1,739	2,421	7,301	8,736	-16.4
Furniture and related products.....	5,469	5,340	5,412	2.4	-1.3	-2.0	5,571	5,487	5,421	5,728	21,845	22,332	-2.2
Nonurable goods industries.....	150,847	156,360	151,926	-3.5	2.9	-0.9	150,384	159,051	145,832	145,593	599,059	566,881	5.7

^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.² Aggregate estimates and percent changes exclude semiconductor industry data. Due to the number of large semiconductor manufacturers choosing not to participate in this voluntary monthly survey, the Census Bureau cannot currently produce monthly estimates of semiconductor shipments, orders, or inventories.³ Due to the number of large semiconductor manufacturers choosing not to participate in this voluntary monthly survey, the Census Bureau cannot currently produce monthly estimates of semiconductor shipments, orders, or inventories.

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

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

Industry	Seasonally Adjusted						Not Seasonally Adjusted				
	Monthly			Percent Change			Monthly				Percent Change Apr 03/02
	Apr 2003 ^p	Mar 2003 ^r	Feb 2003	Mar - Apr	Feb - Mar	Jan - Feb	Apr 2003 ^p	Mar 2003 ^r	Feb 2003	Apr 2002	
All manufacturing industries ¹	477,388	478,035	476,354	-0.1	0.4	0.0	485,349	484,001	481,200	506,010	-4.1
Excluding transportation ¹	229,823	230,528	230,101	-0.3	0.2	0.3	233,595	233,059	232,684	247,526	-5.6
Excluding defense ¹	328,103	329,903	331,512	-0.5	-0.5	-0.5	331,780	332,412	334,123	357,847	-7.3
Durable goods industries ¹	477,388	478,035	476,354	-0.1	0.4	0.0	485,349	484,001	481,200	506,010	-4.1
Primary metals.....	13,894	14,056	14,649	-1.2	-4.0	-0.8	14,318	14,555	15,080	16,634	-13.9
Iron and steel mills.....	7,281	7,437	7,949	-2.1	-6.4	-0.4	7,539	7,724	8,155	8,947	-15.7
Aluminum and nonferrous metals.....	4,408	4,417	4,473	-0.2	-1.3	-2.3	4,511	4,554	4,612	5,284	-14.6
Ferrous metal foundries.....	2,205	2,202	2,227	0.1	-1.1	1.1	2,268	2,277	2,313	2,403	-5.6
Fabricated metal products.....	36,925	37,004	37,166	-0.2	-0.4	-1.0	37,140	36,937	37,000	39,863	-6.8
Machinery.....	44,598	45,000	44,507	-0.9	1.1	-0.2	45,530	45,400	44,987	51,743	-12.0
Construction machinery.....	1,975	1,952	1,941	1.2	0.6	-3.1	2,181	2,075	2,098	2,450	-11.0
Mining, oil field, and gas field machinery.....	907	936	940	-3.1	-0.4	-7.1	907	936	940	1,291	-29.7
Industrial machinery.....	9,576	9,886	9,287	-3.1	6.4	-4.4	9,713	9,737	9,356	9,250	5.0
Photographic equipment.....	1,247	1,233	1,154	1.1	6.8	16.3	1,281	1,256	1,159	942	36.0
Ventilation, heating, air-conditioning, and refrigeration equipment.....	4,333	4,281	4,264	1.2	0.4	1.0	4,508	4,315	4,273	4,834	-6.7
Metalworking machinery.....	3,603	3,693	3,741	-2.4	-1.3	-0.5	3,650	3,725	3,760	3,802	-4.0
Turbines, generators, and other power transmission equipment.....	8,374	8,652	9,154	-3.2	-5.5	0.4	8,348	8,636	9,243	15,080	-44.6
Material handling equipment.....	5,121	5,045	4,912	1.5	2.7	2.0	5,258	5,242	4,965	5,134	2.4
Computers and electronic products ¹	109,892	109,931	109,181	0.0	0.7	0.6	111,987	111,636	110,891	114,384	-2.1
Computers.....	7,473	7,559	7,389	-1.1	2.3	-2.1	7,402	7,615	7,450	6,687	10.7
Nondefense communications equipment.....	38,585	37,769	36,992	2.2	2.1	2.1	39,655	38,581	37,657	40,313	-1.6
Defense communications equipment...	2,619	2,648	2,615	-1.1	1.3	4.0	2,619	2,648	2,615	2,494	5.0
Semiconductors ²	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electronic components.....	12,288	13,207	13,828	-7.0	-4.5	-1.6	12,286	13,219	14,094	16,506	-25.6
Nondefense search and navigation equipment.....	4,067	4,109	4,088	-1.0	0.5	-3.7	4,151	4,208	4,101	4,378	-5.2
Defense search and navigation equipment.....	31,220	30,848	30,746	1.2	0.3	0.4	32,087	31,579	31,233	31,125	3.1
Electromedical, measuring, and control instruments.....	13,640	13,791	13,523	-1.1	2.0	1.6	13,787	13,786	13,741	12,881	7.0
Electrical equipment, appliances, and components.....	14,460	14,389	14,192	0.5	1.4	0.0	14,541	14,531	14,453	14,753	-1.4
Electric lighting equipment.....	1,550	1,631	1,640	-5.0	-0.5	0.0	1,510	1,600	1,603	1,409	7.2
Household appliances.....	1,315	951	900	38.3	5.7	4.9	1,319	1,039	1,085	1,135	16.2
Electrical equipment.....	8,396	8,367	8,181	0.3	2.3	-0.1	8,458	8,391	8,257	8,811	-4.0
Transportation equipment.....	247,565	247,507	246,253	0.0	0.5	-0.3	251,754	250,942	248,516	258,484	-2.6
Motor vehicle bodies, parts, and trailers.....	12,167	12,263	12,393	-0.8	-1.0	0.8	12,565	12,783	13,007	12,858	-2.3
Nondefense aircraft and parts.....	107,218	108,097	111,097	-0.8	-2.7	-2.2	107,592	108,286	110,998	118,002	-8.8
Defense aircraft and parts.....	59,063	58,139	55,615	1.6	4.5	-1.4	61,196	59,385	56,670	57,763	5.9
Ships and boats.....	19,800	20,168	20,395	-1.8	-1.1	-0.5	20,154	20,463	20,633	22,340	-9.8
Furniture and related products.....	5,290	5,186	5,188	2.0	0.0	0.5	5,315	5,038	5,055	6,070	-12.4

^p Preliminary ^r Revised NA Not available.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.

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

Table 4. Value of Manufacturers' Inventories for Industry Groups

[Millions of Dollars]

Industry	Seasonally Adjusted						Not Seasonally Adjusted				
	Monthly			Percent Change			Monthly				Percent Change Apr 03/02
	Apr 2003 ^p	Mar 2003 ^r	Feb 2003	Mar - Apr	Feb - Mar	Jan - Feb	Apr 2003 ^p	Mar 2003 ^r	Feb 2003	Apr 2002	
All manufacturing industries ¹	432,619	432,500	433,227	0.0	-0.2	0.4	433,521	429,849	435,545	431,168	0.5
Excluding transportation ¹	359,084	359,392	359,976	-0.1	-0.2	0.5	360,266	357,987	362,225	359,375	0.2
Excluding defense ¹	408,657	408,888	410,224	-0.1	-0.3	0.3	409,674	406,717	412,410	409,003	0.2
With unfilled orders ¹	213,581	213,932	214,973	-0.2	-0.5	-0.2	214,046	212,155	216,246	219,394	-2.4
Durable goods industries ¹	263,156	263,501	264,681	-0.1	-0.4	-0.1	263,805	261,623	266,602	268,416	-1.7
Wood products.....	9,328	9,335	9,352	-0.1	-0.2	1.3	9,225	9,449	9,608	9,356	-1.4
Nonmetallic mineral products.....	9,241	9,236	9,113	0.1	1.3	1.1	9,442	9,447	9,270	9,015	4.7
Primary metals.....	18,971	19,039	19,091	-0.4	-0.3	0.8	18,777	18,850	19,092	18,144	3.5
Iron and steel mills.....	11,103	11,179	11,167	-0.7	0.1	1.0	10,870	10,960	11,137	9,981	8.9
Aluminum and nonferrous metals.....	6,066	6,056	6,126	0.2	-1.1	0.6	6,048	6,052	6,133	6,369	-5.0
Ferrous metal foundries.....	1,802	1,804	1,798	-0.1	0.3	0.3	1,859	1,838	1,822	1,794	3.6
Fabricated metal products.....	30,711	30,736	30,779	-0.1	-0.1	0.0	30,988	31,020	31,008	31,315	-1.0
Machinery.....	43,616	43,629	44,101	0.0	-1.1	-0.5	43,927	43,793	44,800	46,065	-4.6
Farm machinery.....	2,087	2,117	2,117	-1.4	0.0	1.6	2,114	2,220	2,258	1,981	6.7
Construction machinery.....	3,698	3,699	3,676	0.0	0.6	0.4	3,741	3,791	3,787	4,075	-8.2
Mining, oil field, and gas field machinery.....	2,175	2,173	2,205	0.1	-1.5	-1.0	2,191	2,167	2,196	2,287	-4.2
Industrial machinery.....	7,294	7,349	7,284	-0.7	0.9	-2.0	7,273	7,304	7,392	7,700	-5.5
Photographic equipment.....	1,995	1,981	1,968	0.7	0.7	1.2	2,025	1,963	1,977	1,985	2.0
Ventilation, heating, air-conditioning, and refrigeration equipment.....	4,241	4,242	4,257	0.0	-0.4	0.9	4,412	4,304	4,318	4,239	4.1
Metalworking machinery.....	4,884	4,865	5,294	0.4	-8.1	0.4	4,906	4,827	5,315	5,311	-7.6
Turbines, generators, and other power transmission equipment.....	4,433	4,505	4,606	-1.6	-2.2	-3.9	4,406	4,428	4,607	5,339	-17.5
Material handling equipment.....	2,436	2,453	2,458	-0.7	-0.2	0.6	2,470	2,511	2,500	2,636	-6.3
Computers and electronic products ¹	39,927	40,524	41,300	-1.5	-1.9	-1.1	39,994	39,499	41,526	44,627	-10.4
Computers.....	2,960	3,115	3,141	-5.0	-0.8	0.1	2,967	3,001	3,204	3,140	-5.5
Computer storage devices.....	1,168	1,162	1,146	0.5	1.4	1.7	1,229	1,083	1,208	1,383	-11.1
Other peripheral equipment.....	2,519	2,611	2,576	-3.5	1.4	-1.5	2,527	2,520	2,557	2,662	-5.1
Nondefense communications equipment.....	7,062	7,255	7,503	-2.7	-3.3	-3.5	7,081	7,086	7,547	9,946	-28.8
Defense communications equipment.....	891	875	825	1.8	6.1	0.0	891	875	825	750	18.8
Audio and video equipment.....	1,116	1,109	1,122	0.6	-1.2	-3.9	1,022	932	1,095	1,009	1.3
Semiconductors ²	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electronic components.....	8,397	8,518	8,884	-1.4	-4.1	-0.4	8,400	8,394	8,923	9,252	-9.2
Nondefense search and navigation equipment.....	2,885	2,989	2,989	-3.5	0.0	-0.2	2,941	2,950	2,992	3,108	-5.4
Defense search and navigation equipment.....	3,561	3,260	3,314	9.2	-1.6	-1.4	3,580	3,176	3,280	3,395	5.4
Electromedical, measuring and control instruments.....	8,949	9,203	9,399	-2.8	-2.1	-0.3	8,951	9,081	9,499	9,587	-6.6
Electrical equipment, appliances, and components.....	12,341	12,382	12,379	-0.3	0.0	-0.5	12,667	12,464	12,672	13,511	-6.2
Electric lighting equipment.....	1,457	1,482	1,481	-1.7	0.1	-0.2	1,465	1,465	1,492	1,501	-2.4
Household appliances.....	2,109	2,089	2,081	1.0	0.4	-0.4	2,238	2,122	2,155	2,276	-1.7
Electrical equipment.....	4,244	4,259	4,240	-0.4	0.4	-0.1	4,322	4,262	4,375	4,566	-5.3
Batteries.....	630	628	623	0.3	0.8	0.0	631	609	606	726	-13.1
Transportation equipment.....	73,535	73,108	73,251	0.6	-0.2	0.4	73,255	71,862	73,320	71,793	2.0
Automobiles.....	1,681	1,602	1,848	4.9	-13.3	0.8	1,725	1,595	1,844	1,712	0.8
Light trucks and utility vehicles.....	1,972	2,005	2,163	-1.6	-7.3	0.7	1,990	1,906	2,079	1,985	0.3
Heavy duty trucks.....	799	776	840	3.0	-7.6	1.9	774	765	853	841	-8.0
Motor vehicle bodies, parts, and trailers.....	16,290	16,295	16,319	0.0	-0.1	0.6	16,224	16,158	16,242	15,538	4.4
Nondefense aircraft and parts.....	29,619	29,315	29,555	1.0	-0.8	-1.8	29,424	28,784	29,553	29,913	-1.6
Defense aircraft and parts.....	11,777	11,626	11,294	1.3	2.9	3.6	11,638	11,351	11,517	10,660	9.2
Ships and boats.....	2,877	2,995	2,930	-3.9	2.2	3.0	2,880	2,979	2,914	2,570	12.1
Furniture and related products.....	7,098	7,083	7,004	0.2	1.1	-0.8	7,074	6,969	6,934	6,925	2.2
Miscellaneous durable goods.....	18,388	18,429	18,311	-0.2	0.6	-0.2	18,456	18,270	18,372	17,665	4.5
Nondurable goods industries.....	169,463	168,999	168,546	0.3	0.3	1.2	169,716	168,226	168,943	162,752	4.3
Food products.....	32,481	32,744	32,475	-0.8	0.8	1.0	31,712	32,181	32,541	30,808	2.9
Grain and oilseed milling.....	3,491	3,516	3,520	-0.7	-0.1	0.0	3,440	3,556	3,656	3,134	9.8
Dairy products.....	3,447	3,519	3,504	-2.0	0.4	0.9	3,557	3,557	3,498	3,623	-1.8
Meat, poultry, and seafood products.....	6,295	6,284	6,213	0.2	1.1	0.0	6,340	6,344	6,266	6,054	4.7
Beverage and tobacco products.....	14,328	14,134	14,160	1.4	-0.2	0.1	14,270	14,192	14,427	14,167	0.7
Beverages.....	9,352	9,167	9,256	2.0	-1.0	0.0	9,368	9,185	9,255	8,997	4.1
Tobacco.....	4,976	4,967	4,904	0.2	1.3	0.2	4,902	5,007	5,172	5,170	-5.2
Textile mills.....	5,048	5,024	4,971	0.5	1.1	0.7	5,166	5,025	5,013	5,226	-1.1
Textile products.....	4,615	4,597	4,595	0.4	0.0	0.2	4,703	4,591	4,607	4,496	4.6
Apparel.....	7,745	7,683	7,623	0.8	0.8	0.4	7,685	7,531	7,527	7,481	2.7
Leather and allied products.....	1,596	1,604	1,603	-0.5	0.1	-0.6	1,568	1,558	1,572	1,408	11.4
Paper products.....	14,800	14,699	14,565	0.7	0.9	0.1	14,959	14,823	14,720	14,602	2.4
Pulp, paper, and paperboard mills.....	6,265	6,247	6,217	0.3	0.5	0.0	6,353	6,356	6,328	6,517	-2.5
Paperboard containers.....	4,272	4,196	4,175	1.8	0.5	-1.1	4,270	4,177	4,212	3,999	6.8
Printing.....	5,836	5,889	5,954	-0.9	-1.1	0.2	5,747	5,791	5,760	5,750	-0.1
Petroleum and coal products.....	14,255	14,120	14,231	1.0	-0.8	1.6	14,527	13,789	13,822	12,980	11.9
Petroleum refineries.....	12,744	12,628	12,757	0.9	-1.0	1.6	12,978	12,313	12,375	11,573	12.1
Basic chemicals.....	50,349	50,319	50,379	0.1	-0.1	2.3	50,654	50,262	50,656	49,040	3.3
Pesticides, fertilizers, and other agricultural chemicals.....	2,261	2,251	2,256	0.4	-0.2	-1.8	2,452	2,615	2,645	2,627	-6.7
Pharmaceuticals and medicines.....	18,304	18,329	18,607	-0.1	-1.5	6.2	18,275	18,015	18,396	17,435	4.8
Paints, coatings, and adhesives.....	2,995	2,976	2,980	0.6	-0.1	0.4	3,061	3,058	3,005	2,937	4.2
Plastics and rubber products.....	18,410	18,186	17,990	1.2	1.1	1.6	18,725	18,483	18,298	16,794	11.5

^p Preliminary^r Revised

NA Not available.

¹ See footnote at end of Table 3.² See footnote at end of Table 3.

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

Table 5. Value of Manufacturers' Shipments, New Orders, Unfilled Orders, and Total Inventories for Topical Series ¹

[Millions of Dollars]

Industry	Seasonally Adjusted						Not Seasonally Adjusted ²						
	Monthly			Percent Change			Monthly				Year to date		Percent Change ⁶ 2003/2002
	Apr 2003 ^p	Mar 2003 ^r	Feb 2003	Mar - Apr	Feb - Mar	Jan - Feb	Apr 2003 ^p	Mar 2003 ^r	Feb 2003	Apr 2002	2003 ^p	2002	
SHIPMENTS													
All manufacturing industries ⁵	320,638	327,745	322,601	-2.2	1.6	-1.4	317,526	344,566	309,768	319,852	1,271,307	1,243,716	2.2
Construction materials and supplies.....	35,490	35,709	35,349	-0.6	1.0	-2.3	35,710	35,566	32,809	36,277	136,240	134,096	1.6
Information technology.....	27,165	26,329	25,659	3.2	2.6	-5.1	24,379	30,610	23,424	23,634	100,725	99,985	0.7
Computers and related products	7,484	6,227	6,608	20.2	-5.8	-14.0	6,301	7,871	5,570	5,320	25,931	24,485	5.9
Motor vehicle and parts.....	35,451	36,641	37,013	-3.2	-1.0	-2.6	36,283	39,750	37,233	40,847	150,135	151,783	-1.1
Capital goods.....	63,308	62,903	62,328	0.6	0.9	-1.2	60,018	71,263	58,661	59,716	243,391	243,656	-0.1
Nondefense capital goods ³	55,864	55,723	55,035	0.3	1.3	-1.4	53,005	63,246	51,837	53,874	215,500	219,306	-1.7
Excluding aircraft.....	53,785	53,061	52,193	1.4	1.7	-3.5	51,193	59,844	49,139	50,745	206,362	205,139	0.6
Defense capital goods ⁴	7,444	7,180	7,293	3.7	-1.5	0.5	7,013	8,017	6,824	5,842	27,891	24,350	14.5
Consumer goods.....	123,460	129,535	126,162	-4.7	2.7	-1.5	122,394	132,864	121,900	122,034	497,332	478,142	4.0
Consumer durable goods.....	32,072	32,981	33,039	-2.8	-0.2	-3.3	32,298	36,425	32,796	35,131	133,192	133,642	-0.3
Consumer nondurable goods.....	91,388	96,554	93,123	-5.4	3.7	-0.8	90,096	96,439	89,104	86,903	364,140	344,500	5.7
NEW ORDERS													
All manufacturing industries ⁵	319,991	329,426	322,759	-2.9	2.1	-1.0	318,874	347,367	312,724	316,483	1,284,251	1,247,768	2.9
Construction materials and supplies.....	35,457	35,586	35,119	-0.4	1.3	-1.9	36,114	35,546	32,834	36,626	136,702	135,314	1.0
Information technology.....	27,818	27,748	26,702	0.3	3.9	-3.8	25,441	32,320	25,038	23,678	107,190	100,478	6.7
Computers and related products	7,398	6,397	6,451	15.6	-0.8	-13.1	6,088	8,036	5,588	5,016	25,630	24,368	5.2
Motor vehicle and parts.....	35,355	36,511	37,117	-3.2	-1.6	-2.2	36,065	39,526	37,570	40,823	150,457	152,448	-1.3
Capital goods.....	64,564	66,705	63,431	-3.2	5.2	-0.4	62,615	75,707	60,734	56,365	256,518	240,876	6.5
Nondefense capital goods ³	55,812	55,842	54,098	-0.1	3.2	-4.9	53,788	63,342	51,762	51,329	219,545	211,312	3.9
Excluding aircraft.....	54,042	55,557	53,006	-2.7	4.8	-2.4	52,285	62,317	50,814	50,939	213,997	204,240	4.8
Defense capital goods ⁴	8,752	10,863	9,333	-19.4	16.4	37.4	8,827	12,365	8,972	5,036	36,973	29,564	25.1
Consumer goods.....	123,655	129,121	126,655	-4.2	1.9	-1.1	122,578	132,325	122,427	121,997	497,730	477,889	4.2
Consumer durable goods.....	32,267	32,567	33,532	-0.9	-2.9	-1.8	32,482	35,886	33,323	35,094	133,590	133,389	0.2
Consumer nondurable goods.....	91,388	96,554	93,123	-5.4	3.7	-0.8	90,096	96,439	89,104	86,903	364,140	344,500	5.7
UNFILLED ORDERS													
All manufacturing industries ⁵	477,388	478,035	476,354	-0.1	0.4	0.0	485,349	484,001	481,200	506,010	(X)	(X)	-4.1
Construction materials and supplies.....	31,265	31,298	31,421	-0.1	-0.4	-0.7	31,486	31,082	31,102	32,961	(X)	(X)	-4.5
Information technology.....	102,050	101,397	99,978	0.6	1.4	1.1	104,236	103,174	101,464	102,218	(X)	(X)	2.0
Computers and related products	7,473	7,559	7,389	-1.1	2.3	-2.1	7,402	7,615	7,450	6,687	(X)	(X)	10.7
Motor vehicle and parts.....	12,167	12,263	12,393	-0.8	-1.0	0.8	12,565	12,783	13,007	12,858	(X)	(X)	-2.3
Capital goods.....	339,312	338,056	334,254	0.4	1.1	0.3	344,784	342,187	337,743	352,658	(X)	(X)	-2.2
Nondefense capital goods ³	209,288	209,340	209,221	0.0	0.1	-0.4	211,457	210,674	210,578	222,794	(X)	(X)	-5.1
Excluding aircraft.....	127,663	127,406	124,910	0.2	2.0	0.7	129,832	128,740	126,267	136,008	(X)	(X)	-4.5
Defense capital goods ⁴	130,024	128,716	125,033	1.0	2.9	1.7	133,327	131,513	127,165	129,864	(X)	(X)	2.7
Consumer goods.....	12,096	11,901	12,315	1.6	-3.4	4.2	12,150	11,966	12,505	12,904	(X)	(X)	-5.8
Consumer durable goods.....	12,096	11,901	12,315	1.6	-3.4	4.2	12,150	11,966	12,505	12,904	(X)	(X)	-5.8
TOTAL INVENTORIES													
All manufacturing industries ⁵	432,619	432,500	433,227	0.0	-0.2	0.4	433,521	429,849	435,545	431,168	(X)	(X)	0.5
Construction materials and supplies.....	46,236	46,239	46,134	0.0	0.2	0.6	46,703	46,848	46,768	45,619	(X)	(X)	2.4
Information technology.....	37,426	37,911	38,338	-1.3	-1.1	-1.2	37,630	37,074	38,624	41,802	(X)	(X)	-10.0
Computers and related products	6,647	6,888	6,863	-3.5	0.4	-0.3	6,723	6,604	6,969	7,185	(X)	(X)	-6.4
Motor vehicle and parts.....	20,742	20,678	21,170	0.3	-2.3	0.7	20,713	20,424	21,018	20,076	(X)	(X)	3.2
Capital goods.....	128,502	129,299	129,860	-0.6	-0.4	-0.7	128,927	127,820	130,813	136,569	(X)	(X)	-5.6
Nondefense capital goods ³	109,215	110,223	110,955	-0.9	-0.7	-1.1	109,554	109,075	111,923	117,619	(X)	(X)	-6.9
Excluding aircraft.....	86,716	87,724	88,468	-1.1	-0.8	-0.7	87,315	87,036	89,428	94,196	(X)	(X)	-7.3
Defense capital goods ⁴	19,287	19,076	18,905	1.1	0.9	1.2	19,373	18,745	18,890	18,950	(X)	(X)	2.2
Consumer goods.....	129,712	129,376	129,809	0.3	-0.3	1.3	129,293	127,793	129,700	124,764	(X)	(X)	3.6
Consumer durable goods.....	26,661	26,428	26,859	0.9	-1.6	-0.3	26,722	26,068	27,028	26,163	(X)	(X)	2.1
Consumer nondurable goods.....	103,051	102,948	102,950	0.1	0.0	1.7	102,571	101,725	102,672	98,601	(X)	(X)	4.0

^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.

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

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

[Millions of Dollars]

Industry	Seasonally Adjusted						Not Seasonally Adjusted				
	Monthly			Percent Change			Monthly				Percent Change Apr 03/02
	Apr 2003 ^p	Mar 2003 ^r	Feb 2003	Mar - Apr	Feb - Mar	Jan - Feb	Apr 2003 ^p	Mar 2003 ^r	Feb 2003	Apr 2002	
MATERIALS AND SUPPLIES											
All manufacturing industries ¹	137,995	138,346	139,439	-0.3	-0.8	0.3	137,134	137,391	139,765	142,175	-3.5
Durable goods industries ¹	81,559	82,137	82,770	-0.7	-0.8	-0.1	80,605	81,151	83,119	86,526	-6.8
Wood products.....	3,537	3,507	3,452	0.9	1.6	0.5	3,223	3,371	3,535	3,353	-3.9
Nonmetallic mineral products.....	3,220	3,269	3,227	-1.5	1.3	0.2	3,182	3,236	3,198	3,286	-3.2
Primary metals.....	6,213	6,321	6,376	-1.7	-0.9	2.0	5,979	6,086	6,266	5,791	3.2
Fabricated metal products.....	10,664	10,697	10,686	-0.3	0.1	0.1	10,618	10,666	10,695	10,687	-0.6
Machinery.....	13,909	14,011	14,183	-0.7	-1.2	-1.4	13,940	13,979	14,275	15,802	-11.8
Computers and electronic products ¹	14,048	14,338	14,908	-2.0	-3.8	0.0	13,827	14,181	15,008	16,582	-16.6
Electrical equipment, appliances, and components.....	4,365	4,385	4,409	-0.5	-0.5	-1.1	4,402	4,357	4,492	4,738	-7.1
Transportation equipment.....	16,614	16,649	16,486	-0.2	1.0	0.8	16,437	16,357	16,628	17,083	-3.8
Furniture and related products.....	2,915	2,924	2,881	-0.3	1.5	-3.1	2,918	2,931	2,878	3,034	-3.8
Miscellaneous products.....	6,074	6,036	6,162	0.6	-2.0	-0.8	6,079	5,987	6,144	6,170	-1.5
Nondurable goods industries.....	56,436	56,209	56,669	0.4	-0.8	0.8	56,529	56,240	56,646	55,649	1.6
Food products.....	10,140	10,167	10,104	-0.3	0.6	0.9	10,111	10,168	10,081	9,987	1.2
Beverage and tobacco products.....	5,608	5,611	5,670	-0.1	-1.0	-1.0	5,642	5,702	5,798	5,827	-3.2
Textiles.....	1,483	1,434	1,395	3.4	2.8	0.9	1,501	1,427	1,405	1,457	3.0
Textile products.....	1,595	1,523	1,531	4.7	-0.5	-0.4	1,605	1,503	1,522	1,482	8.3
Apparel.....	1,647	1,631	1,646	1.0	-0.9	-3.2	1,691	1,639	1,630	1,804	-6.3
Leather and allied products.....	351	348	350	0.9	-0.6	1.4	348	338	342	333	4.5
Paper products.....	7,142	7,083	7,096	0.8	-0.2	-0.1	7,157	7,141	7,186	6,926	3.3
Printing.....	2,353	2,304	2,384	2.1	-3.4	-0.9	2,267	2,313	2,345	2,309	-1.8
Petroleum and coal products.....	3,364	3,311	3,648	1.6	-9.2	-0.7	3,488	3,289	3,540	3,456	0.9
Basic chemicals.....	15,622	15,759	15,813	-0.9	-0.3	2.4	15,595	15,699	15,750	15,453	0.9
Plastics and rubber products.....	7,131	7,038	7,032	1.3	0.1	1.9	7,124	7,021	7,047	6,615	7.7
WORK IN PROCESS											
All manufacturing industries ¹	130,544	129,931	129,669	0.5	0.2	0.4	130,817	128,663	129,828	127,913	2.3
Durable goods industries ¹	100,854	100,090	100,227	0.8	-0.1	0.1	101,228	99,169	100,479	100,247	1.0
Wood products.....	1,979	1,984	2,007	-0.3	-1.1	-0.9	1,992	1,984	2,028	1,957	1.8
Nonmetallic mineral products.....	1,151	1,181	1,171	-2.5	0.9	1.6	1,198	1,246	1,202	1,180	1.5
Primary metals.....	6,428	6,391	6,454	0.6	-1.0	0.6	6,395	6,357	6,434	6,195	3.2
Fabricated metal products.....	9,743	9,644	9,677	1.0	-0.3	-0.7	9,726	9,564	9,671	9,874	-1.5
Machinery.....	13,945	13,855	13,858	0.6	0.0	-0.5	14,047	13,625	13,792	14,592	-3.7
Computers and electronic products ¹	16,762	16,684	17,044	0.5	-2.1	-2.6	17,034	16,313	17,129	17,991	-5.3
Electrical equipment, appliances, and components.....	2,760	2,773	2,800	-0.5	-1.0	-1.0	2,826	2,782	2,831	3,106	-9.0
Transportation equipment.....	43,148	42,537	42,419	1.4	0.3	1.2	43,041	42,271	42,621	40,804	5.5
Furniture and related products.....	1,451	1,464	1,424	-0.9	2.8	1.4	1,453	1,468	1,423	1,492	-2.6
Miscellaneous products.....	3,487	3,577	3,373	-2.5	6.0	3.9	3,516	3,559	3,348	3,056	15.1
Nondurable goods industries.....	29,690	29,841	29,442	-0.5	1.4	1.4	29,589	29,494	29,349	27,666	7.0
Food products.....	2,999	2,942	2,870	1.9	2.5	1.2	2,865	2,899	2,947	2,411	18.8
Beverage and tobacco products.....	3,979	3,965	3,962	0.4	0.1	0.1	3,848	3,992	4,077	3,747	2.7
Textiles.....	1,152	1,143	1,162	0.8	-1.6	0.1	1,178	1,153	1,178	1,247	-5.5
Textile products.....	754	776	768	-2.8	1.0	0.0	769	773	764	834	-7.8
Apparel.....	1,274	1,301	1,327	-2.1	-2.0	-1.4	1,283	1,267	1,308	1,437	-10.7
Leather and allied products.....	123	130	129	-5.4	0.8	1.6	124	130	125	166	-25.3
Paper products.....	1,175	1,181	1,158	-0.5	2.0	1.8	1,168	1,161	1,142	1,273	-8.2
Printing.....	1,717	1,811	1,807	-5.2	0.2	2.9	1,707	1,749	1,711	1,811	-5.7
Petroleum and coal products.....	4,374	4,366	4,181	0.2	4.4	1.0	4,522	4,355	4,069	3,704	22.1
Basic chemicals.....	9,717	9,813	9,714	-1.0	1.0	2.4	9,672	9,558	9,619	8,792	10.0
Plastics and rubber products.....	2,426	2,413	2,364	0.5	2.1	1.8	2,453	2,457	2,409	2,244	9.3
FINISHED GOODS											
All manufacturing industries ¹	164,080	164,223	164,119	-0.1	0.1	0.7	165,570	163,795	165,952	161,080	2.8
Durable goods industries ¹	80,743	81,274	81,684	-0.7	-0.5	-0.1	81,972	81,303	83,004	81,643	0.4
Wood products.....	3,812	3,844	3,893	-0.8	-1.3	3.2	4,010	4,094	4,045	4,046	-0.9
Nonmetallic mineral products.....	4,870	4,786	4,715	1.8	1.5	1.7	5,062	4,965	4,870	4,549	11.3
Primary metals.....	6,330	6,327	6,261	0.0	1.1	0.0	6,403	6,407	6,392	6,158	4.0
Fabricated metal products.....	10,304	10,395	10,416	-0.9	-0.2	0.4	10,644	10,790	10,642	10,754	-1.0
Machinery.....	15,762	15,763	16,060	0.0	-1.8	0.4	15,940	16,189	16,733	15,671	1.7
Computers and electronic products ¹	9,117	9,502	9,348	-4.1	1.6	0.0	9,133	9,005	9,389	10,054	-9.2
Electrical equipment, appliances, and components.....	5,216	5,224	5,170	-0.2	1.0	0.4	5,439	5,325	5,349	5,667	-4.0
Transportation equipment.....	13,773	13,922	14,346	-1.1	-3.0	-2.3	13,777	13,234	14,071	13,906	-0.9
Furniture and related products.....	2,732	2,695	2,699	1.4	-0.1	0.6	2,703	2,570	2,633	2,399	12.7
Miscellaneous products.....	8,827	8,816	8,776	0.1	0.5	-1.2	8,861	8,724	8,880	8,439	5.0
Nondurable goods industries.....	83,337	82,949	82,435	0.5	0.6	1.5	83,598	82,492	82,948	79,437	5.2
Food products.....	19,342	19,635	19,501	-1.5	0.7	1.0	18,736	19,114	19,513	18,410	1.8
Beverage and tobacco products.....	4,741	4,558	4,528	4.0	0.7	1.4	4,780	4,498	4,552	4,593	4.1
Textiles.....	2,413	2,447	2,414	-1.4	1.4	0.9	2,487	2,445	2,430	2,522	-1.4
Textile products.....	2,266	2,298	2,296	-1.4	0.1	0.7	2,329	2,315	2,321	2,180	6.8
Apparel.....	4,824	4,751	4,650	1.5	2.2	2.3	4,711	4,625	4,589	4,240	11.1
Leather and allied products.....	1,122	1,126	1,124	-0.4	0.2	-1.4	1,096	1,090	1,105	909	20.6
Paper products.....	6,483	6,435	6,311	0.7	2.0	0.1	6,634	6,521	6,392	6,403	3.6
Printing.....	1,766	1,774	1,763	-0.5	0.6	-1.2	1,773	1,729	1,704	1,630	8.8
Petroleum and coal products.....	6,517	6,443	6,402	1.1	0.6	3.4	6,517	6,145	6,213	5,820	12.0
Basic chemicals.....	25,010	24,747	24,852	1.1	-0.4	2.2	25,387	25,005	25,287	24,795	2.4
Plastics and rubber products.....	8,853	8,735	8,594	1.4	1.6	1.2	9,148	9,005	8,842	7,935	15.3

^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 2003 ^p	Mar 2003 ^r	Feb 2003	Jan 2003	Apr 2003 ^p	Mar 2003 ^r	Feb 2003	Jan 2003
All manufacturing industries ²	1.35	1.32	1.34	1.32	(X)	(X)	(X)	(X)
Durable goods industries ²	1.55	1.54	1.55	1.52	4.03	4.01	4.01	3.94
Wood products.....	1.26	1.26	1.31	1.27	(X)	(X)	(X)	(X)
Nonmetallic mineral products.....	1.11	1.11	1.11	1.04	(X)	(X)	(X)	(X)
Primary metals.....	1.77	1.74	1.74	1.67	1.30	1.28	1.33	1.30
Fabricated metal products.....	1.51	1.50	1.49	1.48	1.91	1.89	1.89	1.89
Machinery.....	1.98	1.96	2.01	1.98	2.24	2.24	2.24	2.19
Computers and electronic products ²	1.48	1.56	1.62	1.56	4.79	4.92	5.03	4.74
Electrical equipment, appliances, and components.....	1.43	1.43	1.44	1.39	1.78	1.76	1.75	1.68
Transportation equipment.....	1.48	1.43	1.41	1.41	7.85	7.70	7.51	7.79
Furniture and related products.....	1.32	1.33	1.30	1.26	1.12	1.11	1.10	1.05
Miscellaneous products.....	1.75	1.72	1.76	1.76	(X)	(X)	(X)	(X)
Nondurable goods industries.....	1.12	1.08	1.11	1.09	(X)	(X)	(X)	(X)
Food products.....	0.86	0.87	0.87	0.85	(X)	(X)	(X)	(X)
Beverage and tobacco products.....	1.63	1.56	1.67	1.63	(X)	(X)	(X)	(X)
Textiles.....	1.51	1.52	1.46	1.40	(X)	(X)	(X)	(X)
Textile products.....	1.51	1.50	1.52	1.50	(X)	(X)	(X)	(X)
Apparel.....	1.73	1.68	1.66	1.58	(X)	(X)	(X)	(X)
Leather and allied products.....	2.06	2.11	2.10	2.24	(X)	(X)	(X)	(X)
Paper products.....	1.12	1.09	1.13	1.11	(X)	(X)	(X)	(X)
Printing.....	0.73	0.74	0.76	0.75	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.75	0.60	0.65	0.66	(X)	(X)	(X)	(X)
Basic chemicals.....	1.35	1.34	1.38	1.33	(X)	(X)	(X)	(X)
Plastics and rubber products.....	1.23	1.19	1.21	1.17	(X)	(X)	(X)	(X)

^p Preliminary ^r Revised 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.

² See footnote at end of Table 2.

Table 8. Revisions to Previously Published Monthly Percent Changes

[Based on Seasonally Adjusted data]

Industry	Shipments			New Orders			Unfilled Orders			Inventories		
	Apr ¹ 2003	Apr ² 1998-2002	Apr 2002-Mar 2003	Apr ¹ 2003	Apr ² 1998-2002	Apr 2002-Mar 2003	Apr ¹ 2003	Apr ² 1998-2002	Apr 2002-Mar 2003	Apr ¹ 2003	Apr ² 1998-2002	Apr 2002-Mar 2003
All manufacturing industries ³	(X)	(NA)	0.1	(X)	(NA)	0.2	(X)	(NA)	0.2	(X)	(NA)	0.1
Durable goods industries ³	-0.2	(NA)	0.2	0.1	(NA)	0.5	0.2	(NA)	0.2	0.0	(NA)	0.1
Wood products.....	(X)	(NA)	0.6	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.4
Nonmetallic mineral products.....	(X)	(NA)	0.9	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.3
Primary metals.....	0.0	(NA)	0.4	0.1	(NA)	0.7	0.0	(NA)	0.4	0.0	(NA)	0.1
Fabricated metal products.....	-0.2	(NA)	0.3	0.4	(NA)	0.7	0.3	(NA)	0.3	0.0	(NA)	0.2
Machinery.....	-0.7	(NA)	0.4	-1.0	(NA)	1.0	0.1	(NA)	0.4	0.1	(NA)	0.3
Computers and electronic products ³	-0.2	(NA)	0.5	0.3	(NA)	1.2	0.2	(NA)	0.2	-0.3	(NA)	0.2
Electrical equipment, appliances, and components.....	-0.1	(NA)	0.3	1.7	(NA)	0.8	0.9	(NA)	0.6	0.0	(NA)	0.1
Transportation equipment.....	-0.1	(NA)	0.6	0.3	(NA)	1.5	0.1	(NA)	0.2	0.0	(NA)	0.2
Furniture and related products.....	(X)	(NA)	0.4	(X)	(NA)	1.1	(X)	(NA)	0.9	(X)	(NA)	0.1
Miscellaneous products.....	(X)	(NA)	0.6	(X)	(NA)	0.9	(X)	(NA)	1.5	(X)	(NA)	0.4
Nondurable goods industries.....	(X)	(NA)	0.2	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.2
Food products.....	(X)	(NA)	0.6	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.3
Beverage and tobacco products.....	(X)	(NA)	0.8	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.2
Textiles.....	(X)	(NA)	1.2	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.5
Textile products.....	(X)	(NA)	1.0	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.4
Apparel.....	(X)	(NA)	1.0	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.5
Leather and allied products.....	(X)	(NA)	4.8	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	1.1
Paper products.....	(X)	(NA)	1.0	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.3
Printing.....	(X)	(NA)	0.3	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.4
Petroleum and coal products.....	(X)	(NA)	0.6	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.5
Basic chemicals.....	(X)	(NA)	0.7	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.2
Plastics and rubber products.....	(X)	(NA)	0.4	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.3

X Not Applicable

NA Not Available

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

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

³ See footnote at end of Table 7

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

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

Survey Description

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

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

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