

Manufacturers' Shipments, Inventories, and Orders

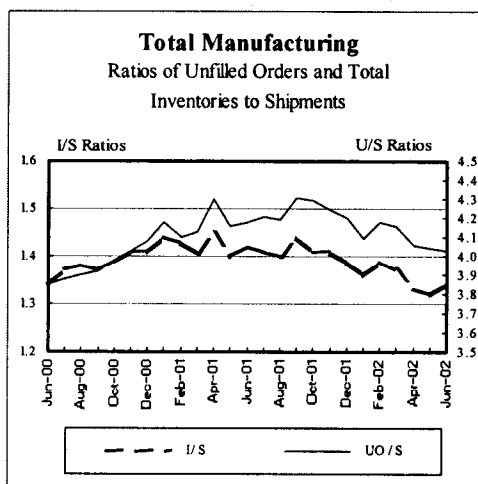
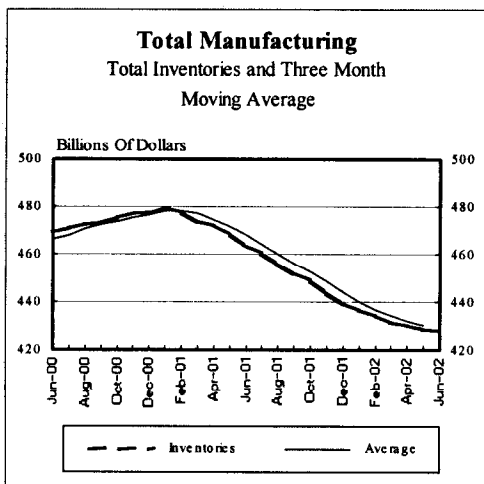
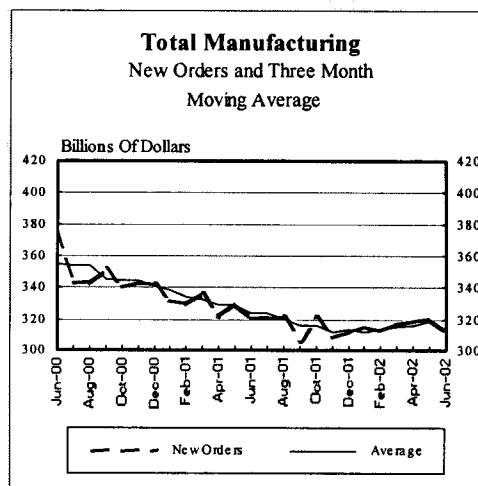
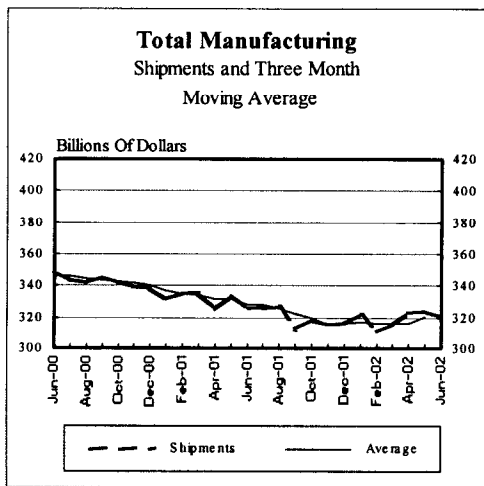
June
2002

M3-1(02)-6

Current Industrial Reports

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

Charts exclude semiconductor data



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 301-763-4804 or 301-763-4814.

The advance report on durable good for July is scheduled for August 27, 2002 at 8:30 a.m. and the full report on September 5, 2002 at 10:00 a.m. For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

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All figures in text are in seasonally adjusted current dollars

Summary

New orders for manufactured goods in June, excluding semiconductors, decreased \$7.7 billion or 2.4 percent to \$313.2 billion, the Department of Commerce, Census Bureau reported today. This followed a 0.6 percent May increase. Year to date, new orders for 2002 were 3.7 percent below the same period a year ago.

Shipments, excluding semiconductors, decreased \$3.2 billion or 1.0 percent to \$320.5 billion, following a 0.2 percent May increase. Year to date, shipments for 2002 were 3.6 percent below the same period a year ago.

Unfilled orders, excluding semiconductors, decreased \$7.3 billion or 1.5 percent to \$489.1 billion, following a 0.6 percent May decrease. The unfilled orders-to-shipments ratio was 4.03, down from 4.04 in May.

Inventories, excluding semiconductors, down seventeen consecutive months, decreased \$0.6 billion or 0.1 percent to \$428.0 billion, following a 0.4 percent May decrease. The inventories-to-shipments ratio was 1.34, up from 1.32 in May.

New Orders

New orders for manufactured durable goods in June, excluding semiconductors, decreased \$7.1 billion or 4.1 percent to \$166.0 billion, revised from the previously published 3.8 percent decrease.

Transportation equipment, down four consecutive months, had the largest decrease, \$2.9 billion or 5.8 percent to \$46.9 billion, led mostly by nondefense aircraft and parts which decreased \$2.4 billion. Machinery decreased \$1.6 billion or 7.1 percent to \$21.2 billion.

New orders for nondurable goods decreased \$0.6 billion or 0.4 percent to \$147.2 billion, led by a decrease in beverage and tobacco products of \$0.3 billion.

Shipments

Shipments of manufactured durable goods in June, excluding semiconductors, decreased \$2.6 billion or 1.5 percent to \$173.3 billion, revised from the previously published 1.4 percent decrease.

Transportation equipment had the largest decrease, \$0.9 billion or 1.8 percent to \$51.3 billion, mostly due to motor vehicles and parts which decreased \$1.2 billion. Computers and electronic products, excluding semiconductors, decreased \$0.7 billion or 2.6 percent to \$26.2 billion.

Shipments of nondurable goods decreased \$0.6 billion or 0.4 percent to \$147.2 billion, led by a decrease in beverage and tobacco products of \$0.3 billion.

Unfilled Orders

Unfilled orders for manufactured durable goods in June, excluding semiconductors, decreased \$7.3 billion or 1.5 percent to \$489.1 billion, revised from the previously published 1.4 percent decrease.

Transportation equipment had the largest decrease, \$4.4 billion or 1.7 percent to \$248.0 billion, mostly due to nondefense aircraft and parts which decreased \$3.4 billion. Machinery, down six consecutive months, decreased \$1.9 billion or 3.7 percent to \$48.4 billion.

Inventories

Inventories of durable goods in June, excluding semiconductors, down seventeen consecutive months, decreased \$1.3 billion or 0.5 percent to \$265.1 billion, revised from the previously published \$265.3 billion. Durable goods inventories were at their lowest level since December 1995.

Computers and electronic products, excluding semiconductors, had the largest decrease, \$0.7 billion or 1.7 percent to \$43.0 billion. Machinery, down fifteen consecutive months, decreased \$0.4 billion or 0.9 percent to \$45.1 billion.

Inventories of nondurable goods increased \$0.7 billion or 0.4 percent to \$162.9 billion.

By stage of fabrication, excluding semiconductors, June materials and supplies decreased 1.1 percent in durables and slightly decreased in nondurables. Work in process decreased 0.3 percent in durables and increased 0.9 percent in nondurables. Finished goods decreased 0.1 percent in durables and increased 0.6 percent in nondurables.

SEE BACK PAGE FOR SURVEY DESCRIPTION

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

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The advance report on durable goods for July is scheduled for August 27, 2002 at 8:30 A.M. EDT and the full report on September 5, 2002 at 10:00 A.M. EDT. 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 Change June 02/01	Year to date	
	June 2002 ^p	May 2002 ^r	Apr. 2002	May - June	Apr. - May	Mar. - Apr.	June 2002 ^p	May 2002 ^r	Apr. 2002	June 2001		2002 ^p	2001
All manufacturing industries ²	320,508	323,736	322,962	-1.0	0.2	2.3	340,750	333,386	319,852	349,085	-2.4	1,917,852	1,988,658
Excluding transportation ²	269,189	271,469	269,336	-0.8	0.8	1.6	284,824	276,252	265,892	292,551	-2.6	1,596,530	1,683,802
Excluding defense ²	312,509	316,151	315,443	-1.2	0.2	2.5	331,773	325,935	312,923	341,166	-2.8	1,872,759	1,950,220
With unfilled orders ²	121,457	122,732	123,001	-1.0	-0.2	1.6	132,377	126,180	120,756	139,723	-5.3	733,347	778,530
Durable goods industries ²	173,286	175,927	176,426	-1.5	-0.3	3.6	188,924	182,576	174,259	194,826	-3.0	1,048,335	1,079,781
Wood products.....	7,292	7,339	7,484	-0.6	-1.9	-0.1	8,069	7,908	7,642	8,501	-5.1	44,088	43,591
Nonmetallic mineral products.....	8,731	8,537	8,332	2.3	2.5	8.5	9,334	9,073	8,451	8,187	14.0	47,905	45,422
Primary metals.....	11,188	11,309	11,315	-1.1	-0.1	3.3	11,610	12,062	11,708	11,974	-3.0	67,954	71,598
Iron and steel mills.....	5,153	5,121	5,113	0.6	0.2	3.9	5,397	5,477	5,290	5,326	1.3	30,765	31,721
Aluminum and nonferrous metals.....	4,696	4,837	4,834	-2.9	0.1	2.3	4,808	5,087	4,989	5,133	-6.3	28,910	31,255
Ferrous metal foundries.....	1,339	1,351	1,368	-0.9	-1.2	4.8	1,405	1,498	1,429	1,515	-7.3	8,279	8,622
Fabricated metal products.....	21,018	21,047	21,171	-0.1	-0.6	3.2	22,004	22,005	21,349	22,195	-0.9	125,693	128,628
Machinery.....	23,041	23,529	22,718	-2.1	3.6	0.9	25,523	24,373	23,327	26,390	-3.3	139,451	149,691
Farm machinery.....	1,469	1,388	1,415	5.8	-1.9	-5.4	1,536	1,596	1,780	1,458	5.3	9,663	8,202
Construction machinery.....	1,628	1,775	1,751	-8.3	1.4	2.6	1,850	2,000	1,920	1,968	-6.0	10,832	11,501
Mining, oil field, and gas field machinery.....	739	747	779	-1.1	-4.1	9.3	808	690	743	868	-6.9	4,435	4,691
Industrial machinery.....	3,109	3,154	3,063	-1.4	3.0	5.9	3,439	2,951	3,167	3,719	-7.5	18,153	22,428
Photographic equipment.....	1,407	1,386	1,338	1.5	3.6	-5.1	1,634	1,393	1,281	1,692	-3.4	8,035	8,288
Ventilation, heating, air-conditioning, and refrigeration equipment.....	2,690	2,658	2,688	1.2	-1.1	-0.9	3,154	2,912	2,686	3,443	-8.4	16,251	17,647
Metalworking machinery.....	2,072	2,094	2,128	-1.1	-1.6	7.3	2,321	2,066	1,968	2,571	-9.7	11,963	13,773
Turbines, generators, and other power transmission equipment.....	3,255	3,550	2,670	-8.3	33.0	-14.4	3,761	3,523	2,511	3,290	14.3	18,735	17,887
Material handling equipment.....	1,321	1,357	1,419	-2.7	-4.4	2.4	1,428	1,392	1,440	1,655	-13.7	8,546	10,151
Computers and electronic products ²	26,164	26,872	26,845	-2.6	0.1	1.4	30,428	24,884	28,736	33,707	-9.7	160,661	180,409
Electronic computers.....	3,736	3,654	3,733	2.2	-2.1	3.8	4,548	3,225	3,269	5,387	-15.6	22,087	29,115
Computer storage devices.....	1,282	1,269	1,292	1.0	-1.8	-0.7	1,796	998	903	1,506	19.3	7,473	6,900
Other peripheral equipment.....	1,348	1,655	1,646	-18.5	0.5	9.4	1,779	1,310	1,148	2,180	-18.4	8,581	10,339
Nondefense communications equipment.....	5,315	5,533	5,764	-3.9	-4.0	2.2	6,344	5,082	4,931	8,592	-26.2	32,081	44,250
Defense communications equipment.....	295	326	308	-9.5	5.8	2.0	304	346	295	306	-0.7	1,887	1,760
Audio and video equipment.....	757	797	746	-5.0	6.8	5.5	718	688	605	680	5.6	4,122	3,943
Semiconductors ³	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electronic components.....	4,224	4,324	4,174	-2.3	3.6	0.6	4,424	4,268	3,995	4,892	-9.6	24,848	30,614
Nondefense search and navigation equipment.....	772	748	737	3.2	1.5	-4.8	838	736	670	877	-4.4	4,470	4,846
Defense search and navigation equipment.....	1,966	1,965	1,991	0.1	-1.3	1.0	2,158	1,865	1,883	2,007	7.5	11,518	11,138
Electromedical, measuring, and control instruments.....	5,821	5,880	5,761	-1.0	2.1	-2.0	6,911	5,728	5,183	6,608	4.6	34,513	33,535
Electrical equipment, appliances, and components.....	9,011	9,199	9,247	-2.0	-0.5	2.7	9,804	9,345	8,981	11,324	-13.4	54,128	62,490
Electric lighting equipment.....	1,080	1,098	1,110	-1.6	-1.1	2.8	1,162	1,078	1,015	1,178	-1.4	6,430	6,574
Household appliances.....	1,978	2,060	2,045	-4.0	0.7	5.1	2,146	2,185	2,071	2,225	-3.6	12,164	11,991
Electrical equipment.....	2,655	2,694	2,709	-1.4	-0.6	2.0	2,941	2,642	2,492	3,420	-14.0	15,543	17,984
Batteries.....	528	563	580	-6.2	-2.9	4.9	566	546	500	655	-13.6	3,033	3,281
Transportation equipment.....	51,319	52,267	53,626	-1.8	-2.5	6.3	55,926	57,134	53,960	56,534	-1.1	321,322	304,856
Automobiles.....	7,838	8,228	8,396	-4.7	-2.0	12.7	8,378	9,136	8,618	8,337	0.5	50,368	46,430
Light trucks and utility vehicles.....	9,699	10,206	10,524	-5.0	-3.0	21.4	10,794	11,637	10,877	10,441	3.4	63,103	57,599
Heavy duty trucks.....	1,185	1,187	1,166	-0.2	1.8	17.1	1,324	1,252	1,147	1,282	3.3	6,614	6,987
Motor vehicle bodies, parts, and trailers.....	18,240	18,585	19,117	-1.9	-2.8	7.3	19,076	20,931	20,205	18,811	1.4	114,226	109,432
Nondefense aircraft and parts.....	6,149	6,249	6,698	-1.6	-6.7	-9.1	7,039	6,417	6,015	9,463	-25.6	40,428	45,200
Defense aircraft and parts.....	3,127	2,930	2,847	6.7	2.9	-6.0	3,660	2,818	2,474	2,956	23.8	16,655	12,534
Ships and boats.....	1,681	1,779	1,805	-5.5	-1.4	-0.3	1,759	1,859	1,855	1,703	3.3	10,586	9,711
Furniture and related products.....	5,548	5,668	5,698	-2.1	-0.5	3.5	5,616	5,537	5,618	5,689	-1.3	33,423	35,221
Miscellaneous durable goods.....	9,974	10,160	9,990	-1.8	1.7	2.2	10,610	10,255	9,778	10,325	2.8	59,001	57,875
Nondurable goods industries.....	147,222	147,809	146,536	-0.4	0.9	0.9	151,826	150,810	145,593	154,259	-1.6	869,517	908,877
Food products.....	37,495	37,686	37,607	-0.5	0.2	-0.6	37,703	37,539	36,148	38,172	-1.2	223,225	221,809
Grain and oilseed milling.....	4,090	4,092	4,043	0.0	1.2	1.0	3,904	4,157	3,903	3,785	3.1	24,190	23,316
Dairy products.....	5,104	5,239	5,289	-2.6	-0.9	-3.3	5,270	5,370	5,103	5,937	-11.2	31,620	32,430
Meat, poultry, and seafood products.....	11,305	11,254	11,227	0.5	0.2	0.2	11,649	11,457	11,056	11,501	1.3	67,291	66,195
Beverage and tobacco products.....	9,117	9,423	8,925	-3.2	5.6	-6.0	9,680	9,986	8,947	10,353	-6.5	55,145	57,565
Beverages.....	5,609	5,774	5,711	-2.9	1.1	0.6	6,172	6,337	5,733	5,995	3.0	33,740	32,542
Tobacco.....	3,508	3,649	3,214	-3.9	13.5	-15.8	3,508	3,649	3,214	4,358	-19.5	21,405	25,023
Textile mills.....	3,520	3,656	3,805	-3.7	-3.9	9.6	3,862	3,689	3,664	4,158	-7.1	21,427	23,365
Textile products.....	3,100	3,157	3,215	-1.8	-1.8	7.6	3,381	3,184	3,212	3,109	8.7	18,357	17,120
Apparel.....	4,684	4,748	4,722	-1.3	0.6	4.1	4,593	4,362	4,561	4,659	-1.4	27,265	28,602
Leather and allied products.....	631	670	719	-5.8	-6.8	25.9	628	639	635	718	-12.5	3,650	4,414
Paper products.....	12,431	12,582	12,410	-1.2	1.4	2.3	12,517	12,673	12,214	12,976	-3.5	73,207	78,193
Pulp, paper, and paperboard mills.....	5,678	5,867	5,739	-3.2	2.2	1.6	5,698	5,822	5,691	6,034	-5.6	33,785	36,944
Paperboard containers.....	3,768	3,726	3,616	1.1	3.0	2.7	3,742	3,811	3,618	3,614	3.5	21,680	22,071
Printing.....	7,858	7,903	7,997	-0.6	-1.2	0.5	7,717	7,649	7,710	8,021	-3.8	45,985	49,007
Petroleum and coal products.....	17,849	17,904	17,805	-0.3	0.6	-0.6	19,047	18,850	17,564	19,248	-1.0	101,360	114,609
Petroleum refineries.....	16,269	16,306	16,255	-0.2	0.3	-0.8	17,145	17,125	16,080	17,329	-1.1	92,652	105,595
Basic chemicals.....	35,769	35,154	34,431	1.7	2.1	1.4	37,334	36,314	35,436	37,667	-0.9	210,174	225,397
Pesticides, fertilizers, and other agricultural chemicals.....	1,989	1,605	1,653	23.9	-2.9	0.9	2,078	2,509	2,957	1,871	11.1	12,786	13,437
Pharmaceuticals and medicines.....	9,332	8,817	8,537	5.8	3.3	-0.9	9,518	8,642	8,287	9,389	1.4	52,852	59,168
Paints, coatings, and adhesives.....	2,377	2,348	2,281	1.2	2.9	0.9	2,596	2,639	2,407	2,495	4.0	14,378	14,347
Plastics and rubber products.....	14,768	14,926	14,900	-1.1	0.2	3.7	15,364	15,925	15,502	15,178	1.2	89,722	88,796

^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				Percent Change June 02/01	Year to date	
	June 2002 ^p	May 2002 ^r	Apr. 2002	May - June	Apr. - May	Mar. - Apr.	June 2002 ^p	May 2002 ^r	Apr. 2002	June 2001		2002 ^p	2001
All manufacturing industries ²	313,188	320,873	318,861	-2.4	0.6	0.7	329,414	328,861	316,483	341,283	-3.5	1,906,043	1,977,658
Excluding transportation ²	266,253	271,034	268,777	-1.8	0.8	2.2	279,343	275,279	266,039	287,295	-2.8	1,589,275	1,668,545
Excluding defense ²	305,587	314,573	312,152	-2.9	0.8	2.4	322,034	323,960	310,390	335,492	-4.0	1,857,632	1,936,300
With unfilled orders ²	114,137	119,869	118,900	-4.8	0.8	-2.7	121,041	121,655	117,387	131,921	-8.2	721,538	767,530
Durable goods industries ²	165,966	173,064	172,325	-4.1	0.4	0.5	177,588	178,051	170,890	187,024	-5.0	1,036,526	1,068,781
Primary metals.....	11,195	11,445	11,290	-2.2	1.4	6.3	11,410	12,034	11,624	11,936	-4.4	68,257	71,805
Iron and steel mills.....	5,272	5,442	5,330	-3.1	2.1	8.2	5,418	5,744	5,501	5,447	-0.5	32,095	31,907
Aluminum and nonferrous metals.....	4,615	4,729	4,648	-2.4	1.7	5.3	4,648	4,895	4,733	4,991	-6.9	28,060	31,229
Ferrous metal foundries.....	1,308	1,274	1,312	2.7	-2.9	2.0	1,344	1,395	1,390	1,498	-10.3	8,102	8,669
Fabricated metal products.....	20,587	21,312	20,913	-3.4	1.9	1.7	21,366	22,656	21,219	22,105	-3.3	125,760	128,133
Machinery.....	21,161	22,772	22,446	-7.1	1.5	4.6	22,854	23,413	23,369	25,013	-8.6	134,151	146,610
Construction machinery.....	1,599	1,755	1,888	-8.9	-7.0	12.3	1,704	1,887	2,073	1,873	-9.0	10,880	11,112
Mining, oil field, and gas field machinery.....	611	734	719	-16.8	2.1	-4.1	680	677	683	930	-26.9	4,386	4,890
Industrial machinery.....	2,789	3,376	3,357	-17.4	0.6	10.5	2,793	3,237	3,694	3,471	-19.5	18,484	20,439
Photographic equipment.....	1,372	1,439	1,413	-4.7	1.8	-1.9	1,556	1,460	1,347	1,679	-7.3	8,150	8,126
Ventilation, heating, air-conditioning, and refrigeration equipment.....	2,538	2,646	2,766	-4.1	-4.3	4.7	2,876	2,960	2,871	3,397	-15.3	16,498	17,750
Metalworking machinery.....	2,006	2,037	2,025	-1.5	0.6	5.5	2,201	2,044	1,915	2,258	-2.5	11,774	13,375
Turbines, generators, and other power transmission equipment.....	2,242	2,518	2,272	-11.0	10.8	8.1	2,705	2,402	2,040	2,868	-5.7	13,413	18,156
Material handling equipment.....	1,292	1,294	1,329	-0.2	-2.6	-0.2	1,425	1,217	1,273	1,680	-15.2	8,138	10,127
Computers and electronic products ²	25,579	26,780	26,787	-4.5	0.0	2.8	28,822	24,231	29,862	30,928	-6.8	159,791	173,323
Electronic computers.....	3,532	3,710	3,469	-4.8	6.9	-3.1	4,203	3,601	2,965	5,395	-22.1	22,001	29,271
Nondefense communications equipment.....	4,699	5,763	5,927	-18.5	-2.8	15.8	5,031	5,113	5,048	6,541	-23.1	31,424	40,886
Defense communications equipment.....	359	253	257	41.9	-1.6	-10.8	368	273	244	271	35.8	1,807	1,783
Semiconductors ³	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electronic components.....	4,233	4,115	4,219	2.9	-2.5	-6.0	4,477	3,761	4,228	4,747	-5.7	24,584	27,024
Nondefense search and navigation equipment.....	707	689	694	2.6	-0.7	-6.5	777	690	627	775	0.3	4,316	4,378
Defense search and navigation equipment.....	2,117	1,906	1,869	11.1	2.0	6.3	2,300	1,383	1,728	1,782	29.1	10,623	11,143
Electromedical, measuring, and control instruments.....	5,897	5,902	5,975	-0.1	-1.2	0.9	6,765	5,776	5,556	6,379	6.1	34,823	33,687
Electrical equipment, appliances, and components.....	9,286	9,346	9,495	-0.6	-1.6	9.4	9,841	9,421	9,158	10,694	-8.0	54,118	60,464
Electric lighting equipment.....	1,064	1,120	1,150	-5.0	-2.6	7.1	1,147	1,167	1,066	1,209	-5.1	6,527	6,683
Household appliances.....	1,991	2,038	2,168	-2.3	-6.0	11.6	2,044	2,104	2,092	2,066	-1.1	11,837	11,640
Electrical equipment.....	2,913	2,786	2,777	4.6	0.3	15.3	3,116	2,728	2,556	3,290	-5.3	15,678	17,677
Transportation equipment.....	46,935	49,839	50,084	-5.8	-0.5	-7.0	50,071	53,582	50,444	53,988	-7.3	316,768	309,113
Motor vehicle bodies, parts, and trailers.....	18,309	18,764	19,241	-2.4	-2.5	7.1	18,879	20,801	20,181	18,460	2.3	114,564	108,644
Nondefense aircraft and parts.....	2,777	5,216	3,740	-46.8	39.5	-42.5	3,652	5,411	3,224	9,441	-61.3	30,694	45,970
Defense aircraft and parts.....	2,826	2,227	2,144	26.9	3.9	-66.2	2,727	1,780	1,977	2,280	19.6	21,164	14,390
Ships and boats.....	1,645	1,625	2,275	1.2	-28.6	45.9	1,524	1,445	2,421	1,262	20.8	11,705	12,769
Furniture and related products.....	5,400	5,608	5,642	-3.7	-0.6	3.4	5,385	5,552	5,728	5,740	-6.2	33,269	34,898
Nonurable goods industries.....	147,222	147,809	146,536	-0.4	0.9	0.9	151,826	150,810	145,593	154,259	-1.6	869,517	908,877

^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 June 02/01
	June 2002 ^p	May 2002 ^r	Apr. 2002	May - June	Apr. - May	Mar. - Apr.	June 2002 ^p	May 2002 ^r	Apr. 2002	June 2001	
All manufacturing industries ¹	489,053	496,373	499,236	-1.5	-0.6	-0.8	490,149	501,485	506,010	531,929	-7.9
Excluding transportation ¹	241,037	243,973	244,408	-1.2	-0.2	-0.2	241,072	246,553	247,526	267,803	-10.0
Excluding defense ¹	346,104	353,026	354,604	-2.0	-0.4	-0.9	346,133	355,872	357,847	398,167	-13.1
Durable goods industries ¹	489,053	496,373	499,236	-1.5	-0.6	-0.8	490,149	501,485	506,010	531,929	-7.9
Primary metals.....	16,173	16,166	16,030	0.0	0.8	-0.2	16,406	16,606	16,634	18,554	-11.6
Iron and steel mills.....	8,968	8,849	8,528	1.3	3.8	2.6	9,235	9,214	8,947	9,205	0.3
Aluminum and nonferrous metals.....	4,961	5,042	5,150	-1.6	-2.1	-3.5	4,932	5,092	5,284	6,868	-28.2
Ferrous metal foundries.....	2,244	2,275	2,352	-1.4	-3.3	-2.3	2,239	2,300	2,403	2,481	-9.8
Fabricated metal products.....	39,572	40,003	39,738	-1.1	0.7	-0.6	39,876	40,514	39,863	43,681	-8.7
Machinery.....	48,393	50,273	51,030	-3.7	-1.5	-0.5	48,114	50,783	51,743	56,885	-15.4
Construction machinery.....	2,185	2,214	2,234	-1.3	-0.9	6.5	2,191	2,337	2,450	2,365	-7.4
Mining, oil field, and gas field machinery.....	1,150	1,278	1,291	-10.0	-1.0	-4.4	1,150	1,278	1,291	1,238	-7.1
Industrial machinery.....	9,045	9,365	9,143	-3.4	2.4	3.3	8,890	9,536	9,250	9,860	-9.8
Photographic equipment.....	961	996	943	-3.5	5.6	8.6	931	1,009	942	819	13.7
Ventilation, heating, air-conditioning, and refrigeration equipment.....	4,522	4,674	4,686	-3.3	-0.3	1.7	4,604	4,882	4,834	4,959	-7.2
Metalworking machinery.....	3,614	3,680	3,737	-1.8	-1.5	-2.7	3,660	3,780	3,802	4,914	-25.5
Turbines, generators, and other power transmission equipment.....	13,157	14,170	15,202	-7.1	-6.8	-2.6	12,903	13,959	15,080	17,581	-26.6
Material handling equipment.....	4,908	4,937	5,000	-0.6	-1.3	-1.8	4,956	4,959	5,134	5,706	-13.1
Computers and electronic products ¹	112,054	112,639	112,731	-0.5	-0.1	-0.1	112,125	113,731	130,137	122,852	-8.7
Electronic computers.....	6,623	6,827	6,771	-3.0	0.8	-3.8	6,718	7,063	6,687	7,540	-10.9
Nondefense communications equipment.....	39,096	39,712	39,482	-1.6	0.6	0.4	39,031	40,344	40,313	44,996	-13.3
Defense communications equipment.....	2,485	2,421	2,494	2.6	-2.9	-2.0	2,485	2,421	2,494	2,694	-7.8
Semiconductors ²	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electronic components.....	16,286	16,277	16,486	0.1	-1.3	0.3	16,052	15,999	16,506	17,823	-9.9
Nondefense search and navigation equipment.....	4,207	4,272	4,331	-1.5	-1.4	-1.0	4,271	4,332	4,378	5,045	-15.3
Defense search and navigation equipment.....	30,505	30,354	30,413	0.5	-0.2	-0.4	30,785	30,643	31,125	32,480	-5.2
Electromedical, measuring, and control instruments.....	12,852	12,776	12,754	0.6	0.2	1.7	12,783	12,929	12,881	12,274	4.1
Electrical equipment, appliances, and components.....	15,101	14,826	14,679	1.9	1.0	1.7	14,866	14,829	14,753	15,723	-5.5
Electric lighting equipment.....	1,435	1,451	1,429	-1.1	1.5	2.9	1,483	1,498	1,409	1,552	-4.4
Household appliances.....	1,134	1,121	1,143	1.2	-1.9	12.1	952	1,054	1,135	894	6.5
Electrical equipment.....	9,137	8,879	8,787	2.9	1.0	0.8	9,072	8,897	8,811	8,901	1.9
Transportation equipment.....	248,016	252,400	254,828	-1.7	-1.0	-1.4	249,077	254,932	258,484	264,126	-5.7
Motor vehicle bodies, parts, and trailers.....	12,739	12,670	12,491	0.5	1.4	1.0	12,531	12,728	12,858	12,940	-3.2
Nondefense aircraft and parts.....	113,127	116,499	117,532	-2.9	-0.9	-2.5	113,609	116,996	118,002	138,771	-18.1
Defense aircraft and parts.....	55,023	55,324	56,027	-0.5	-1.3	-1.2	55,792	56,725	57,763	43,226	29.1
Ships and boats.....	21,696	21,732	21,886	-0.2	-0.7	2.2	21,691	21,926	22,340	21,490	0.9
Furniture and related products.....	5,913	6,061	6,121	-2.4	-1.0	-0.9	5,854	6,085	6,070	6,544	-10.5

^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 June 02/01
	June 2002 ^p	May 2002 ^r	Apr. 2002	May - June	Apr. - May	Mar. - Apr.	June 2002 ^p	May 2002 ^r	Apr. 2002	June 2001	
All manufacturing industries ¹	427,982	428,592	430,153	-0.1	-0.4	-0.3	424,857	430,844	431,168	460,062	-7.7
Excluding transportation ¹	356,076	356,422	357,978	-0.1	-0.4	-0.3	354,099	358,887	359,375	385,444	-8.1
Excluding defense ¹	405,828	406,535	407,740	-0.2	-0.3	-0.3	402,918	408,851	409,003	438,504	-8.1
With unfilled orders ¹	216,004	217,337	218,917	-0.6	-0.7	-0.6	214,265	218,766	219,394	238,789	-10.3
Durable goods industries ¹	265,116	266,417	267,811	-0.5	-0.5	-0.5	263,026	268,295	268,416	291,294	-9.7
Wood products.....	9,438	9,591	9,573	-1.6	0.2	-0.1	9,235	9,386	9,356	9,773	-5.5
Nonmetallic mineral products.....	8,882	8,808	8,857	0.8	-0.6	-0.3	8,918	8,926	9,015	9,755	-8.6
Primary metals.....	18,278	18,153	18,302	0.7	-0.8	-0.5	18,102	17,991	18,144	20,303	-10.8
Iron and steel mills.....	10,200	10,084	10,170	1.2	-0.8	-1.1	10,026	9,930	9,981	11,300	-11.3
Aluminum and nonferrous metals.....	6,282	6,304	6,385	-0.3	-1.3	0.2	6,252	6,271	6,369	7,111	-12.1
Ferrous metal foundries.....	1,796	1,765	1,747	1.8	1.0	0.0	1,824	1,790	1,794	1,892	-3.6
Fabricated metal products.....	30,560	30,687	31,024	-0.4	-1.1	-0.9	30,716	30,965	31,315	33,739	-9.0
Machinery.....	45,079	45,473	45,753	-0.9	-0.6	-1.2	44,613	45,853	46,065	49,026	-9.0
Farm machinery.....	1,996	1,982	1,956	0.7	1.3	0.0	1,969	1,981	1,981	2,155	-8.6
Construction machinery.....	3,912	3,984	4,038	-1.8	-1.3	-0.4	3,866	3,977	4,075	3,825	1.1
Mining, oil field, and gas field machinery.....	2,217	2,254	2,278	-1.6	-1.1	-2.6	2,249	2,291	2,287	2,440	-7.8
Industrial machinery.....	7,793	7,709	7,688	1.1	0.3	-2.0	7,763	7,875	7,700	8,664	-10.4
Photographic equipment.....	1,951	1,975	1,956	-1.2	1.0	0.1	1,931	2,019	1,985	1,991	-3.0
Ventilation, heating, air-conditioning, and refrigeration equipment.....	4,062	4,075	4,077	-0.3	0.0	-0.7	4,065	4,231	4,239	4,476	-9.2
Metalworking machinery.....	5,203	5,238	5,317	-0.7	-1.5	-2.5	5,195	5,323	5,311	6,141	-15.4
Turbines, generators, and other power transmission equipment.....	4,879	5,244	5,336	-7.0	-1.7	-0.7	4,763	5,252	5,339	5,082	-6.3
Material handling equipment.....	2,653	2,598	2,582	2.1	0.6	-1.1	2,627	2,629	2,636	2,891	-9.1
Computers and electronic products ¹	43,017	43,743	44,429	-1.7	-1.5	-0.2	42,747	44,809	44,627	53,843	-20.6
Electronic computers.....	3,094	3,137	3,142	-1.4	-0.2	-0.4	3,048	3,354	3,340	3,341	-8.8
Computer storage devices.....	1,362	1,356	1,321	0.4	2.6	0.0	1,260	1,491	1,383	1,605	-21.5
Other peripheral equipment.....	2,613	2,571	2,585	1.6	-0.5	-3.3	2,574	2,713	2,662	3,254	-20.9
Nondefense communications equipment.....	9,356	9,609	9,911	-2.6	-3.0	0.8	9,157	9,795	9,946	14,089	-35.0
Defense communications equipment.....	755	776	750	-2.7	3.5	5.8	755	776	750	803	-6.0
Audio and video equipment.....	1,057	1,097	1,106	-3.6	-0.8	2.6	1,095	1,072	1,009	1,221	-10.3
Semiconductors ²	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electronic components.....	8,808	9,096	9,259	-3.2	-1.8	-1.2	8,915	9,282	9,252	11,554	-22.8
Nondefense search and navigation equipment.....	2,978	3,033	3,040	-1.8	-0.2	0.4	2,956	3,082	3,108	2,836	4.2
Defense search and navigation equipment.....	3,405	3,296	3,360	3.3	-1.9	-0.2	3,420	3,328	3,395	3,452	-0.9
Electromedical, measuring and control instruments.....	9,214	9,371	9,544	-1.7	-1.8	0.2	9,187	9,516	9,587	11,197	-18.0
Electrical equipment, appliances, and components.....	13,095	13,143	13,209	-0.4	-0.5	-0.2	12,967	13,444	13,511	14,301	-9.3
Electric lighting equipment.....	1,470	1,486	1,488	-1.1	-0.1	-1.2	1,492	1,520	1,501	1,598	-6.6
Household appliances.....	2,178	2,145	2,142	1.5	0.1	0.1	2,186	2,270	2,276	2,161	1.2
Electrical equipment.....	4,526	4,481	4,509	1.0	-0.6	0.4	4,338	4,480	4,566	4,422	-1.9
Batteries.....	717	719	722	-0.3	-0.4	-0.3	731	741	726	804	-9.1
Transportation equipment.....	71,906	72,170	72,175	-0.4	0.0	-0.4	70,758	71,957	71,793	74,618	-5.2
Automobiles.....	1,685	1,709	1,681	-1.4	1.7	0.9	1,660	1,752	1,712	1,747	-5.0
Light trucks and utility vehicles.....	1,964	1,962	1,927	0.1	1.8	4.5	1,967	2,043	1,985	2,091	-5.9
Heavy duty trucks.....	866	889	857	-2.6	3.7	2.5	864	896	841	983	-12.1
Motor vehicle bodies, parts, and trailers.....	15,715	15,608	15,624	0.7	-0.1	0.8	15,589	15,493	15,538	16,564	-5.9
Nondefense aircraft and parts.....	29,966	30,279	30,066	-1.0	0.7	-1.6	29,302	30,067	29,913	32,094	-8.7
Defense aircraft and parts.....	10,594	10,617	10,842	-0.2	-2.1	0.6	10,416	10,561	10,660	9,957	4.6
Ships and boats.....	2,556	2,495	2,566	2.4	-2.8	-2.2	2,576	2,514	2,570	2,637	-2.3
Furniture and related products.....	7,011	6,985	6,934	0.4	0.7	-0.5	7,138	7,077	6,925	8,157	-12.5
Miscellaneous durable goods.....	17,850	17,664	17,555	1.1	0.6	0.5	17,832	17,887	17,665	17,779	0.3
Nondurable goods industries.....	162,866	162,175	162,342	0.4	-0.1	0.0	161,831	162,549	162,752	168,768	-4.1
Food products.....	31,713	31,580	31,441	0.4	0.4	0.5	30,575	30,726	30,808	30,325	0.8
Grain and oilseed milling.....	3,252	3,129	3,105	3.9	0.8	-1.5	3,095	2,952	3,134	2,935	5.5
Dairy products.....	3,469	3,483	3,533	-0.4	-1.4	0.1	3,554	3,579	3,623	3,565	-0.3
Meat, poultry, and seafood products.....	6,012	6,051	6,004	-0.6	0.8	0.4	5,979	6,080	6,054	5,623	6.3
Beverage and tobacco products.....	14,484	14,318	14,237	1.2	0.6	-1.2	13,996	14,050	14,167	13,666	2.4
Beverages.....	9,167	9,068	8,985	1.1	0.9	-0.4	9,054	9,047	8,997	8,888	4.2
Tobacco.....	5,317	5,250	5,252	1.3	0.0	-2.6	4,942	5,003	5,170	4,978	-0.7
Textile mills.....	5,116	5,122	5,131	-0.1	-0.2	-2.7	5,140	5,240	5,226	6,153	-16.5
Textile products.....	4,495	4,459	4,425	0.8	0.8	1.9	4,584	4,577	4,496	4,753	-3.6
Apparel.....	7,427	7,418	7,514	0.1	-1.3	-1.6	7,791	7,539	7,481	9,720	-19.8
Leather and allied products.....	1,401	1,397	1,417	0.3	-1.4	-1.0	1,429	1,409	1,408	1,665	-14.2
Paper products.....	14,473	14,399	14,460	0.5	-0.4	-1.1	14,410	14,462	14,602	14,909	-3.3
Pulp, paper, and paperboard mills.....	6,449	6,425	6,445	0.4	-0.3	-1.6	6,428	6,470	6,517	6,741	-4.6
Paperboard containers.....	3,989	3,959	3,997	0.8	-1.0	-0.8	3,959	3,944	3,999	4,172	-5.1
Printing.....	5,881	5,770	5,794	1.9	-0.4	0.8	5,926	5,668	5,750	6,604	-10.3
Petroleum and coal products.....	12,820	12,693	12,777	1.0	-0.7	2.6	13,141	13,190	12,980	13,450	-2.3
Petroleum refineries.....	11,443	11,327	11,406	1.0	-0.7	2.9	11,679	11,741	11,573	11,829	-1.3
Basic chemicals.....	48,393	48,422	48,594	-0.1	-0.4	0.0	48,183	48,928	49,040	50,088	-3.8
Pesticides, fertilizers, and other agricultural chemicals.....	2,395	2,424	2,438	-1.2	-0.6	-1.9	2,148	2,388	2,627	2,528	-15.0
Pharmaceuticals and medicines.....	17,096	17,229	17,347	-0.8	-0.7	0.5	17,128	17,482	17,435	16,346	4.8
Paints, coatings, and adhesives.....	2,872	2,855	2,865	0.6	-0.3	-0.7	2,937	2,910	2,937	3,034	-3.2
Plastics and rubber products.....	16,663	16,597	16,552	0.4	0.3	0.0	16,656	16,760	16,794	17,435	-4.5

^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 Series¹

(Millions of Dollars)

Industry	Seasonally Adjusted						Not Seasonally Adjusted ²						
	Monthly			Percent Change			Monthly				Percent Change June 02/01	Year to date	
	June 2002 ^p	May 2002 ^r	Apr. 2002	May - June	Apr. - May	Mar. - Apr.	June 2002 ^p	May 2002 ^r	Apr. 2002	June 2001		2002 ^p	2001
SHIPMENTS													
All manufacturing industries ⁵	320,508	323,736	322,962	-1.0	0.2	2.3	340,750	333,386	319,852	349,085	-2.4	1,917,852	1,988,658
Construction materials and supplies	36,287	36,059	35,925	0.6	0.4	3.5	39,389	38,430	36,277	38,642	1.9	211,915	211,698
Information technology	26,117	26,718	26,812	-2.2	-0.4	1.2	30,627	24,903	23,634	34,353	-10.8	155,515	180,743
Computers and related products ⁵	6,366	6,578	6,671	-3.2	-1.4	4.2	8,123	5,533	5,320	9,073	-10.5	38,141	46,354
Motor vehicle and parts	36,962	38,206	39,203	-3.3	-2.5	12.2	39,572	42,956	40,847	38,871	1.8	234,311	220,448
Capital goods	63,017	63,910	63,407	-1.4	0.8	-0.7	71,348	63,056	59,716	77,867	8.4	378,060	415,250
Nondefense capital goods ³	56,332	57,593	57,195	-2.2	0.7	0.1	64,046	56,765	53,874	70,932	-9.7	340,117	381,483
Excluding aircraft	53,344	54,450	53,799	-2.0	1.2	1.4	60,484	53,324	50,745	65,367	-7.5	318,947	356,121
Defense capital goods ⁴	6,685	6,317	6,212	5.8	1.7	-7.3	7,302	6,291	5,842	6,935	5.3	37,943	33,767
Consumer goods	122,269	124,106	123,551	-1.5	0.4	2.6	126,715	127,324	122,034	127,918	-0.9	732,181	748,327
Consumer durable goods	32,548	34,003	34,342	-4.3	-1.0	10.8	34,840	36,517	35,131	34,151	2.0	204,999	194,218
Consumer nondurable goods	89,721	90,103	89,209	-0.4	1.0	-0.3	91,875	90,807	86,903	93,767	2.0	527,182	554,109
NEW ORDERS													
All manufacturing industries ⁵	313,188	320,873	318,861	-2.4	0.6	0.7	329,414	328,861	316,483	341,283	-3.5	1,906,043	1,977,658
Construction materials and supplies	35,758	36,205	35,945	-1.2	0.7	4.3	38,615	39,094	36,626	38,557	0.2	213,023	211,051
Information technology	25,508	26,943	26,801	-5.3	0.5	4.3	28,869	24,806	23,678	31,334	-7.9	154,153	175,608
Computers and related products ⁵	6,162	6,634	6,407	-7.1	3.5	0.3	7,778	5,909	5,016	9,081	-14.3	38,055	46,510
Motor vehicle and parts	37,031	38,385	39,327	-3.5	-2.4	12.1	39,375	42,826	40,823	38,520	2.2	234,649	219,660
Capital goods	57,352	61,466	60,010	-6.7	2.4	-6.7	62,725	59,439	56,365	70,287	-10.8	363,040	405,256
Nondefense capital goods ³	51,044	56,174	54,220	-9.1	3.6	1.1	57,032	55,269	51,329	65,800	-13.3	323,613	371,376
Excluding aircraft	50,722	53,837	53,563	-5.8	0.5	5.3	56,136	52,634	50,939	61,011	-8.0	313,010	348,446
Defense capital goods ⁴	6,308	5,292	5,790	19.2	-8.6	-45.9	5,693	4,170	5,036	4,487	26.9	39,427	33,880
Consumer goods	121,999	123,940	123,546	-1.6	0.3	2.6	126,164	127,073	121,997	127,271	-0.9	731,126	745,373
Consumer durable goods	32,278	33,837	34,337	-4.6	-1.5	11.0	34,289	36,266	35,094	33,504	2.3	203,944	191,264
UNFILLED ORDERS													
All manufacturing industries ⁵	489,053	496,373	499,236	-1.5	-0.6	-0.8	490,149	501,485	506,010	531,929	-7.9	(X)	(X)
Construction materials and supplies	32,440	32,969	32,823	-1.6	0.4	0.1	32,851	33,625	32,961	35,601	-7.7	(X)	(X)
Information technology	100,124	100,733	100,508	-0.6	0.2	0.0	100,363	102,121	102,218	110,224	-8.9	(X)	(X)
Computers and related products ⁵	6,623	6,827	6,771	-3.0	0.8	-3.8	6,718	7,063	6,687	7,540	-10.9	(X)	(X)
Motor vehicle and parts	12,739	12,670	12,491	0.5	1.4	1.0	12,531	12,728	12,858	12,940	-3.2	(X)	(X)
Capital goods	340,369	346,034	348,478	-1.6	-0.7	-1.0	340,418	349,041	352,658	372,337	-8.6	(X)	(X)
Nondefense capital goods ³	214,489	219,777	221,196	-2.4	-0.6	-1.3	214,284	221,298	222,794	256,197	-16.4	(X)	(X)
Excluding aircraft	131,175	133,797	134,410	-2.0	-0.5	-0.2	130,970	135,318	136,008	149,900	-12.6	(X)	(X)
Defense capital goods ⁴	125,880	126,257	127,282	-0.3	-0.8	-0.3	126,134	127,743	129,864	116,140	8.6	(X)	(X)
Consumer goods	12,441	12,711	12,877	-2.1	-1.3	0.0	12,102	12,653	12,904	12,911	-6.3	(X)	(X)
Consumer durable goods	12,441	12,711	12,877	-2.1	-1.3	0.0	12,102	12,653	12,904	12,911	-6.3	(X)	(X)
TOTAL INVENTORIES													
All manufacturing industries ⁵	427,982	428,592	430,153	-0.1	-0.4	-0.3	424,857	430,844	431,168	460,062	-7.7	(X)	(X)
Construction materials and supplies	44,903	45,026	45,297	-0.3	-0.6	-0.8	44,887	45,342	45,619	48,695	-7.8	(X)	(X)
Information technology	40,364	40,934	41,474	-1.4	-1.3	0.0	39,983	41,979	41,802	49,596	-19.4	(X)	(X)
Computers and related products ⁵	7,069	7,064	7,048	0.1	0.2	-1.4	6,882	7,558	7,185	8,200	-16.1	(X)	(X)
Motor vehicle and parts	20,230	20,168	20,089	0.3	0.4	1.2	20,080	20,184	20,076	21,385	-6.1	(X)	(X)
Capital goods	134,454	135,200	136,121	-0.6	-0.7	-0.9	132,716	136,363	136,569	149,408	-11.2	(X)	(X)
Nondefense capital goods ³	115,508	116,460	117,117	-0.8	-0.6	-0.9	113,938	117,574	117,619	130,702	-12.8	(X)	(X)
Excluding aircraft	91,959	92,778	93,475	-0.9	-0.7	-0.6	91,031	94,298	94,196	104,864	-13.2	(X)	(X)
Defense capital goods ⁴	18,946	18,740	19,004	1.1	-1.4	-0.6	18,778	18,789	18,950	18,706	0.4	(X)	(X)
Consumer goods	125,336	124,905	124,926	0.3	0.0	0.3	124,497	125,192	124,764	127,520	-2.4	(X)	(X)
Consumer durable goods	26,190	26,123	26,028	0.3	0.4	0.7	26,237	26,536	26,163	27,655	-5.1	(X)	(X)
Consumer nondurable goods	99,146	98,782	98,898	0.4	-0.1	0.2	98,260	98,656	98,601	99,865	-1.6	(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 June 02/01
	June 2002 ^p	May 2002 ^r	Apr. 2002	May - June	Apr. - May	Mar. - Apr.	June 2002 ^p	May 2002 ^r	Apr. 2002	June 2001	
MATERIALS AND SUPPLIES											
All manufacturing industries ¹	140,911	141,879	143,081	-0.7	-0.8	-0.3	139,585	141,317	142,175	154,396	-9.6
Durable goods industries ¹	85,588	86,554	87,607	-1.1	-1.2	-0.5	84,316	85,918	86,526	95,487	-11.7
Wood products	3,672	3,691	3,729	-0.5	-1.0	-1.2	3,360	3,306	3,353	3,520	-4.5
Nonmetallic mineral products	3,301	3,294	3,334	0.2	-1.2	0.1	3,278	3,260	3,286	3,451	-5.0
Primary metals	6,001	5,952	5,996	0.8	-0.7	0.1	5,891	5,745	5,791	6,757	-12.8
Fabricated metal products	10,419	10,474	10,706	-0.5	-2.2	-1.5	10,491	10,469	10,687	11,221	-6.5
Machinery	15,356	15,576	15,720	-1.4	-0.9	-2.1	15,132	15,538	15,802	16,798	-9.9
Computers and electronic products ¹	15,855	16,297	16,802	-2.7	-3.0	0.2	15,844	16,551	16,582	21,452	-26.1
Electrical equipment, appliances, and components	4,615	4,680	4,726	-1.4	-1.0	-0.6	4,519	4,704	4,738	5,475	-17.5
Transportation equipment	17,028	17,294	17,411	-1.5	-0.7	0.4	16,477	16,949	17,083	17,172	-4.0
Furniture and related products	3,073	3,061	3,027	0.4	1.1	-0.8	3,078	3,086	3,034	3,433	-10.3
Miscellaneous products	6,268	6,235	6,156	0.5	1.3	0.3	6,246	6,310	6,170	6,208	0.6
Nondurable goods industries	55,323	55,325	55,474	0.0	-0.3	0.2	55,269	55,399	55,649	58,909	-6.2
Food products	10,215	10,133	9,991	0.8	1.4	-0.2	10,166	10,087	9,987	10,457	-2.8
Beverage and tobacco products	5,821	5,770	5,749	0.9	0.4	-2.4	5,696	5,763	5,827	5,795	-1.7
Textiles	1,446	1,436	1,444	0.7	-0.6	-1.9	1,428	1,438	1,457	1,715	-16.7
Textile products	1,492	1,475	1,476	1.2	-0.1	0.3	1,524	1,500	1,482	1,673	-8.9
Apparel	1,735	1,705	1,752	1.8	-2.7	-1.7	1,770	1,744	1,804	2,202	-19.6
Leather and allied products	321	320	335	0.3	-4.5	-1.8	332	322	333	471	-29.5
Paper products	6,923	6,930	6,897	-0.1	0.5	-1.2	6,864	6,885	6,926	7,266	-5.5
Printing	2,438	2,391	2,380	2.0	0.5	2.9	2,427	2,298	2,309	2,829	-14.2
Petroleum and coal products	3,153	3,216	3,367	-2.0	-4.5	4.4	3,288	3,353	3,456	3,620	-9.2
Basic chemicals	15,087	15,276	15,460	-1.2	-1.2	1.5	15,083	15,315	15,453	15,959	-5.5
Plastics and rubber products	6,692	6,673	6,623	0.3	0.8	-0.6	6,691	6,694	6,615	6,922	-3.3
WORK IN PROCESS											
All manufacturing industries ¹	127,746	127,765	127,768	0.0	0.0	-0.6	126,512	128,345	127,913	137,266	-7.8
Durable goods industries ¹	99,639	99,913	100,103	-0.3	-0.2	-0.7	98,682	100,536	100,247	109,278	-9.7
Wood products	2,074	2,074	1,932	0.0	7.3	-0.5	2,061	2,066	1,957	1,922	7.2
Nonmetallic mineral products	1,150	1,139	1,124	1.0	1.3	1.2	1,158	1,171	1,180	1,286	-10.0
Primary metals	6,174	6,178	6,223	-0.1	-0.7	0.0	6,174	6,166	6,195	6,948	-11.1
Fabricated metal products	9,882	9,883	9,905	0.0	-0.2	-0.3	9,975	9,920	9,874	10,861	-8.2
Machinery	14,394	14,463	14,579	-0.5	-0.8	0.9	14,386	14,831	14,592	15,818	-9.1
Computers and electronic products ¹	17,553	17,621	17,617	-0.4	0.0	-1.4	17,516	18,028	17,991	20,152	-13.1
Electrical equipment, appliances, and components	2,998	3,034	3,059	-1.2	-0.8	0.7	2,996	3,109	3,106	3,475	-13.8
Transportation equipment	40,868	40,967	41,124	-0.2	-0.4	-1.5	39,855	40,642	40,804	43,923	-9.3
Furniture and related products	1,497	1,513	1,489	-1.1	1.6	0.8	1,500	1,525	1,492	1,686	-11.0
Miscellaneous products	3,049	3,041	3,051	0.3	-0.3	0.7	3,061	3,078	3,056	3,207	-4.6
Nondurable goods industries	28,107	27,852	27,665	0.9	0.7	-0.2	27,830	27,809	27,666	27,988	-0.6
Food products	2,524	2,532	2,555	-0.3	-0.9	-1.6	2,330	2,301	2,411	2,440	-4.5
Beverage and tobacco products	3,848	3,889	3,864	-1.1	0.6	-1.8	3,537	3,717	3,747	3,504	0.9
Textiles	1,196	1,220	1,232	-2.0	-1.0	-2.7	1,198	1,230	1,247	1,540	-22.2
Textile products	792	809	823	-2.1	-1.7	1.0	794	829	834	851	-6.7
Apparel	1,430	1,431	1,403	-0.1	2.0	-0.4	1,525	1,524	1,437	1,805	-15.5
Leather and allied products	168	164	164	2.4	0.0	-0.6	163	164	166	229	-28.8
Paper products	1,267	1,269	1,287	-0.2	-1.4	1.8	1,265	1,261	1,273	1,294	-2.2
Printing	1,862	1,788	1,798	4.1	-0.6	-0.5	1,874	1,720	1,811	2,083	-10.0
Petroleum and coal products	3,775	3,686	3,619	2.4	1.9	3.6	3,811	3,800	3,704	3,305	15.3
Basic chemicals	9,036	8,845	8,707	2.2	1.6	-0.8	9,149	9,047	8,792	8,620	6.1
Plastics and rubber products	2,209	2,219	2,213	-0.5	0.3	0.7	2,184	2,216	2,244	2,317	-5.7
FINISHED GOODS											
All manufacturing industries ¹	159,325	158,948	159,304	0.2	-0.2	-0.1	158,760	161,182	161,080	168,400	-5.7
Durable goods industries ¹	79,889	79,950	80,101	0.1	0.2	0.1	80,028	81,841	81,643	86,529	-7.5
Wood products	3,692	3,826	3,912	-3.5	-2.2	1.2	3,814	4,014	4,046	4,331	-11.9
Nonmetallic mineral products	4,431	4,375	4,399	1.3	-0.5	-1.1	4,482	4,495	4,549	5,018	-10.7
Primary metals	6,103	6,023	6,083	1.3	-1.0	-1.7	6,037	6,080	6,158	6,598	-8.5
Fabricated metal products	10,259	10,330	10,413	-0.7	-0.8	-0.7	10,250	10,576	10,754	11,657	-12.1
Machinery	15,329	15,434	15,454	-0.7	-0.1	-2.1	15,095	15,484	15,671	16,410	-8.0
Computers and electronic products ¹	9,609	9,825	10,010	-2.2	-1.8	1.5	9,387	10,230	10,054	12,239	-23.3
Electrical equipment, appliances, and components	5,482	5,429	5,424	1.0	0.1	-0.4	5,452	5,631	5,667	5,351	1.9
Transportation equipment	14,010	13,909	13,640	0.7	2.0	2.2	14,426	14,366	13,906	13,523	6.7
Furniture and related products	2,441	2,411	2,418	1.2	-0.3	-0.9	2,560	2,466	2,399	3,038	-15.7
Miscellaneous products	8,533	8,388	8,348	1.7	0.5	0.5	8,525	8,499	8,439	8,364	1.9
Nondurable goods industries	79,436	78,998	79,203	0.6	-0.3	0.0	78,732	79,341	79,437	81,871	-3.8
Food products	18,974	18,915	18,895	0.3	0.1	1.1	18,079	18,338	18,410	17,428	3.7
Beverage and tobacco products	4,815	4,659	4,624	3.3	0.8	0.6	4,763	4,570	4,593	4,367	9.1
Textiles	2,474	2,466	2,455	0.3	0.4	-3.2	2,514	2,572	2,522	2,898	-13.3
Textile products	2,211	2,175	2,126	1.7	2.3	3.4	2,266	2,248	2,180	2,229	1.7
Apparel	4,262	4,282	4,359	-0.5	-1.8	-1.9	4,496	4,271	4,240	5,713	-21.3
Leather and allied products	912	913	918	-0.1	-0.5	-0.8	934	923	909	965	-3.2
Paper products	6,283	6,200	6,276	1.3	-1.2	-1.5	6,281	6,316	6,403	6,349	-1.1
Printing	1,581	1,591	1,616	-0.6	-1.5	-0.8	1,625	1,650	1,630	1,692	-4.0
Petroleum and coal products	5,892	5,791	5,791	1.7	0.0	1.1	6,042	6,037	5,820	6,525	-7.4
Basic chemicals	24,270	24,301	24,427	-0.1	-0.5	-0.6	23,951	24,566	24,795	25,509	-6.1
Plastics and rubber products	7,762	7,705	7,716	0.7	-0.1	0.3	7,781	7,850	7,935	8,196	-5.1

^p Preliminary ^r Revised ¹ 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			
	Jun 2002 ^p	May 2002 ^r	Apr 2002	Mar 2002	Jun 2002 ^p	May 2002 ^r	Apr 2002	Mar 2002
All manufacturing industries ²	1.34	1.32	1.33	1.37	(X)	(X)	(X)	(X)
Durable goods industries ²	1.53	1.51	1.52	1.58	4.03	4.04	4.06	4.16
Wood products.....	1.29	1.31	1.28	1.28	(X)	(X)	(X)	(X)
Nonmetallic mineral products.....	1.02	1.03	1.06	1.16	(X)	(X)	(X)	(X)
Primary metals.....	1.63	1.61	1.62	1.68	1.45	1.43	1.42	1.47
Fabricated metal products.....	1.45	1.46	1.47	1.53	1.98	2.00	1.98	2.06
Machinery.....	1.96	1.93	2.01	2.06	2.30	2.33	2.45	2.49
Computers and electronic products ²	1.64	1.63	1.66	1.68	5.06	5.02	5.02	5.06
Electrical equipment, appliances, and components.....	1.45	1.43	1.43	1.47	1.78	1.72	1.69	1.71
Transportation equipment.....	1.40	1.38	1.35	1.44	7.61	7.73	7.60	7.75
Furniture and related products.....	1.26	1.23	1.22	1.27	1.20	1.21	1.22	1.28
Miscellaneous products.....	1.79	1.74	1.76	1.79	(X)	(X)	(X)	(X)
Nondurable goods industries.....	1.11	1.10	1.11	1.12	(X)	(X)	(X)	(X)
Food products.....	0.85	0.84	0.84	0.83	(X)	(X)	(X)	(X)
Beverage and tobacco products.....	1.59	1.52	1.60	1.52	(X)	(X)	(X)	(X)
Textiles.....	1.45	1.40	1.35	1.52	(X)	(X)	(X)	(X)
Textile products.....	1.45	1.41	1.38	1.45	(X)	(X)	(X)	(X)
Apparel.....	1.59	1.56	1.59	1.68	(X)	(X)	(X)	(X)
Leather and allied products.....	2.22	2.09	1.97	2.51	(X)	(X)	(X)	(X)
Paper products.....	1.16	1.14	1.17	1.21	(X)	(X)	(X)	(X)
Printing.....	0.75	0.73	0.72	0.72	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.72	0.71	0.72	0.69	(X)	(X)	(X)	(X)
Basic chemicals.....	1.35	1.38	1.41	1.43	(X)	(X)	(X)	(X)
Plastics and rubber products.....	1.13	1.11	1.11	1.15	(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		
	Jun ¹ 2002	Jun ² 1997-2001	Jun 2001-May 2002	Jun ¹ 2002	Jun ² 1997-2001	Jun 2001-May 2002	Jun ¹ 2002	Jun ² 1997-2001	Jun 2001-May 2002	Jun ¹ 2002	Jun ² 1997-2001	Jun 2001-May 2002
All manufacturing industries ³	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	(NA)
Durable goods industries ³	-0.1	(NA)	(NA)	-0.3	(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.....	-0.2	(NA)	(NA)	-0.2	(NA)	(NA)	-0.1	(NA)	(NA)	0.1	(NA)	(NA)
Fabricated metal products.....	-0.2	(NA)	(NA)	-0.1	(NA)	(NA)	0.0	(NA)	(NA)	0.1	(NA)	(NA)
Machinery.....	-0.3	(NA)	(NA)	-0.4	(NA)	(NA)	0.0	(NA)	(NA)	0.0	(NA)	(NA)
Computers and electronic products ³	0.0	(NA)	(NA)	-0.6	(NA)	(NA)	-0.1	(NA)	(NA)	0.0	(NA)	(NA)
Electrical equipment, appliances, and components.....	0.0	(NA)	(NA)	0.1	(NA)	(NA)	0.1	(NA)	(NA)	-0.3	(NA)	(NA)
Transportation equipment.....	-0.1	(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

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

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

³ See footnote at end of Table 7

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

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

Survey Description

This report is compiled from results of the U.S. Census Bureau's Manufacturers' Shipments, Inventories, and Orders (M3) survey. This survey provides statistics on manufacturers' value of shipments, new orders (net of cancellations), end-of-month order backlog (unfilled orders), end-of-month total inventory (at current cost or market value), and inventories by stage of fabrication (materials and supplies, work-in-process, and finished goods). The M3 includes approximately 5,000 reporting units. Units may be divisions of diversified large companies, large homogenous companies, or single-unit manufacturers in 89 industry categories. Due to the small monthly sample, these 89 categories have been combined into 59 publication levels. The survey methodology assumes that the month-to-month changes of the total operations of those companies in the monthly survey effectively represent the month-to-month movements of all establishments that make up the category. The current coverage levels in the survey show that reported data in the monthly survey represent approximately 60 percent of the shipments estimates at the total manufacturing level. Data published represent manufacturing in a calendar month. The data collection is based on a voluntary survey authorized by Title 13 of the United States Code.

The data presented in this release are based on data obtained from a panel of 5,000 reporting units and provide an indication of the activity within the manufacturing sector. The results differ from what would be obtained from a complete enumeration of all manufacturing companies. In addition, a different panel of 5,000 companies would yield different results. The M3 panel is comprised of companies with \$500 million or more in shipments and a limited number of smaller companies. From a statistical perspective, the panel is not a probability sample; therefore, the sampling errors that are normally provided with sample surveys cannot be measured. Nonsampling errors are attributable to many sources. The use of company or divisional reports to estimate the monthly change for establishments is one source of nonsampling error. The use of primarily large companies to represent the month-to-month movement of all companies is another potential source.

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