

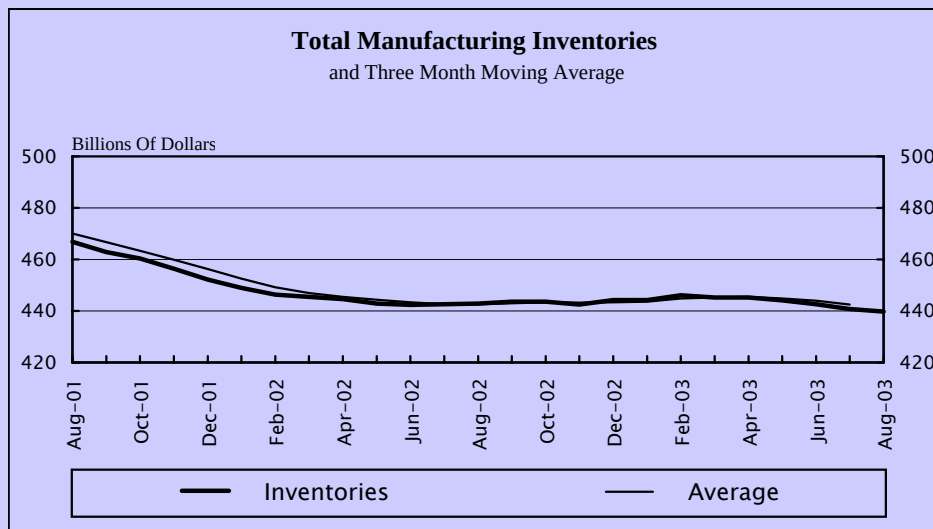
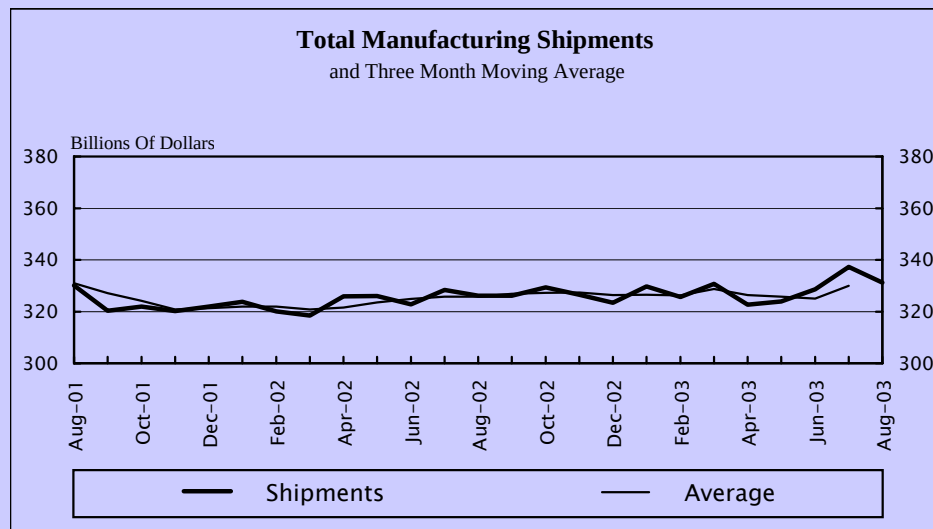
Manufacturers' Shipments, Inventories, and Orders: August 2003

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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 September is scheduled for October 28, 2003 at 8:30 a.m. and the full report on November 5, 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. Figures on new and unfilled orders exclude data for semiconductor manufacturing.

Summary

New orders for manufactured goods in August decreased \$2.7 billion or 0.8 percent to \$327.8 billion, the Department of Commerce, Census Bureau reported today. This followed three consecutive increases, including a 2.0 percent July increase. Year to date, new orders for 2003 were 1.9 percent above the same period a year ago.

Shipments decreased \$6.0 billion or 1.8 percent to \$331.3 billion. This followed three consecutive increases, including a 2.6 percent July increase. Year to date, shipments for 2003 were 1.5 percent above the same period a year ago.

Unfilled orders, up six of the past seven months, increased \$3.0 billion or 0.6 percent to \$488.9 billion. This followed a 0.3 percent July decrease. The unfilled orders-to-shipments ratio was 4.09, up from 3.94 in July.

Inventories, down four consecutive months, decreased \$1.1 billion or 0.2 percent to \$439.7 billion, following a 0.4 percent July decrease. This was the lowest level since September 1997. The inventories-to-shipments ratio was 1.33, up from 1.31 in July.

New Orders

New orders for manufactured durable goods in August, down following three consecutive increases, decreased \$1.9 billion or 1.1 percent to \$173.1 billion, revised from the previously published \$173.3 billion.

Transportation equipment, down five of the past six months, had the largest decrease, \$1.2 billion or 2.3 percent to \$51.0 billion.

New orders for manufactured nondurable goods decreased \$0.8 billion or 0.5 percent to \$154.7 billion.

Shipments

Shipments of manufactured durable goods in August, down following three consecutive increases, decreased \$5.2 billion or 2.9 percent to \$176.6 billion, revised from the previously published \$176.3 billion.

Transportation equipment had the largest decrease, \$3.6 billion or 6.8 percent to \$49.6 billion, led by light trucks and utility vehicles, which decreased by \$1.0 billion. Automobile manufacturing decreased by \$0.9 billion. This was the largest percent decrease in transportation equipment since January 2001.

Shipments of manufactured nondurable goods, down following three consecutive increases, decreased \$0.8 billion or 0.5 percent to \$154.7 billion. Basic chemicals had the largest decrease, \$1.4 billion or 3.6 percent to \$38.4 billion, due to pharmaceuticals and medicines, which decreased \$1.8 billion.

Unfilled Orders

Unfilled orders of manufactured durable goods in August, up six of the past seven months, increased \$3.0 billion or 0.6 percent to \$488.9 billion, revised from the previously published \$489.1 billion.

Transportation equipment, up six of the past seven months, had the largest increase, \$1.4 billion or 0.6 percent to \$247.9 billion, led by ships and boats, which increased by \$1.9 billion. Computers and electronic products increased \$1.3 billion or 1.0 percent to \$124.9 billion.

Inventories

Inventories of manufactured durable goods in August, at the lowest level since June 1995, decreased \$1.3 billion or 0.5 percent to \$263.4 billion, revised from the previously published \$263.5 billion. This was the thirtieth decrease over the past thirty-one months.

Machinery, at the lowest level since January 1995, had the largest decrease, \$0.3 billion or 0.8 percent to \$41.6 billion, led by metalworking machinery, which decreased by \$0.2 billion. Transportation equipment also decreased \$0.3 billion or 0.4 percent to \$67.4 billion.

Inventories of manufactured nondurable goods increased \$0.2 billion or 0.1 percent to \$176.4 billion. Petroleum and coal products had the largest increase, \$0.5 billion or 3.4 percent to \$15.8 billion.

By stage of fabrication, August materials and supplies decreased 1.3 percent in durable goods and increased 0.1 percent in nondurable goods. Work in process decreased 0.1 percent in durable goods and 0.2 percent in nondurable goods. Finished goods decreased 0.1 percent in durable goods and increased 0.3 percent in nondurable goods.

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		
	Aug 2003 ^p	July 2003 ^r	June 2003	July - Aug	June - July	May - June	Aug 2003 ^p	July 2003 ^r	June 2003	Aug 2002	2003 ^p	2002	Percent Change 03/02
All manufacturing industries	331,254	337,248	328,643	-1.8	2.6	1.5	336,403	310,025	348,612	333,948	2,606,232	2,568,264	1.5
Excluding transportation	281,667	284,054	277,659	-0.8	2.3	1.2	285,944	271,286	293,409	278,718	2,204,842	2,153,832	2.4
Excluding defense	322,004	327,706	319,825	-1.7	2.5	1.5	327,519	301,600	338,775	326,409	2,537,352	2,507,957	1.2
With unfilled orders	119,513	123,463	119,631	-3.2	3.2	1.2	119,378	109,110	130,189	123,549	945,429	969,574	-2.5
Durable goods industries	176,554	181,761	176,782	-2.9	2.8	1.7	177,286	158,160	192,530	182,062	1,392,404	1,409,073	-1.2
Wood products.....	7,726	7,623	7,471	1.4	2.0	3.0	8,299	7,993	8,257	7,782	59,462	59,030	0.7
Nonmetallic mineral products.....	7,311	7,350	7,238	-0.5	1.5	1.1	7,964	7,666	7,705	8,066	58,055	59,684	-2.7
Primary metals.....	10,627	10,826	10,488	-1.8	3.2	-3.1	10,829	10,157	10,934	11,949	88,053	91,687	-4.0
Iron and steel mills.....	4,769	4,880	4,661	-2.3	4.7	-6.9	4,821	4,584	4,936	5,532	40,273	41,379	-2.7
Aluminum and nonferrous metals.....	4,632	4,675	4,575	-0.9	2.2	0.1	4,729	4,431	4,671	5,011	37,489	39,395	-4.8
Ferrous metal foundries.....	1,226	1,271	1,252	-3.5	1.5	0.3	1,279	1,142	1,327	1,406	10,291	10,913	-5.7
Fabricated metal products.....	19,921	20,883	20,179	-4.6	3.5	-0.2	20,872	19,867	21,088	22,421	162,779	168,149	-3.2
Machinery.....	21,017	21,264	20,854	-1.2	2.0	0.0	20,318	19,807	23,110	20,843	167,592	171,535	-2.3
Farm machinery.....	1,382	1,339	1,341	3.2	-0.1	1.5	1,278	1,258	1,406	1,288	11,688	11,145	4.9
Construction machinery.....	1,757	1,812	1,746	-3.0	3.8	3.4	1,667	1,739	1,954	1,572	14,016	13,912	0.7
Mining, oil field, and gas field machinery.....	717	728	681	-1.5	6.9	-4.6	710	702	735	620	5,576	5,112	9.1
Industrial machinery.....	2,974	2,907	3,027	2.3	-4.0	-0.9	2,604	2,790	3,496	2,698	22,930	20,957	9.4
Photographic equipment.....	882	859	810	2.7	6.0	1.9	869	802	922	828	6,251	6,134	1.9
Ventilation, heating, air-conditioning, and refrigeration equipment.....	2,533	2,619	2,514	-3.3	4.2	4.3	2,718	2,542	3,048	2,683	20,233	21,008	-3.7
Metalworking machinery.....	1,760	1,739	1,639	1.2	6.1	-3.7	1,710	1,464	1,803	1,938	13,324	15,522	-14.2
Turbines, generators, and other power transmission equipment.....	2,582	2,709	2,576	-4.7	5.2	-6.1	2,534	2,270	2,814	2,977	21,012	25,802	-18.6
Material handling equipment.....	1,298	1,317	1,306	-1.4	0.8	1.2	1,237	1,317	1,374	1,266	10,570	10,834	-2.4
Computers and electronic products	35,266	35,125	34,884	0.4	0.7	4.9	33,264	30,233	39,941	30,803	259,807	250,752	3.6
Computers.....	4,988	5,520	4,413	-9.6	25.1	1.4	4,634	5,305	4,913	3,808	35,524	31,307	13.5
Computer storage devices.....	1,255	1,484	1,719	-15.4	-13.7	49.1	1,008	866	2,382	1,003	9,407	9,079	3.6
Other peripheral equipment.....	1,492	1,579	1,500	-5.5	5.3	0.7	1,312	1,195	1,986	1,408	11,010	10,675	3.1
Nondefense communications equipment.....	6,049	6,123	6,234	-1.2	-1.8	16.4	5,540	4,992	7,257	5,497	43,766	48,815	-10.3
Defense communications equipment.....	458	441	423	3.9	4.3	-3.4	460	404	435	354	3,338	2,944	13.4
Audio and video equipment.....	664	706	678	-5.9	4.1	0.7	648	635	639	680	4,924	5,401	-8.8
Semiconductors	6,415	5,296	6,076	21.1	-12.8	0.1	6,162	4,411	6,670	4,717	44,994	36,203	24.3
Electronic components.....	4,027	4,077	4,129	-1.2	-1.3	1.2	4,100	3,753	4,401	4,693	31,877	36,358	-12.3
Nondefense search and navigation equipment.....	827	865	850	-4.4	1.8	-2.5	843	803	927	862	6,583	6,614	-0.5
Defense search and navigation equipment.....	2,609	2,823	2,346	-7.6	20.3	-0.7	2,379	2,517	2,574	1,959	18,812	16,591	13.4
Electromedical, measuring, and control instruments.....	5,982	5,733	5,960	4.3	-3.8	1.6	5,678	4,916	7,215	5,209	45,789	42,241	8.4
Electrical equipment, appliances, and components.....	8,237	8,546	8,286	-3.6	3.1	-0.3	8,180	7,767	9,059	8,573	65,694	68,250	-3.7
Electric lighting equipment.....	984	1,044	1,043	-5.7	0.1	0.8	947	879	1,131	1,016	8,041	8,021	0.2
Household appliances.....	2,014	2,000	1,940	0.7	3.1	2.2	2,047	1,847	2,138	1,914	15,274	14,924	2.3
Electrical equipment.....	2,405	2,510	2,470	-4.2	1.6	1.0	2,391	2,313	2,766	2,538	19,399	20,155	-3.8
Batteries.....	452	548	438	-17.5	25.1	-0.5	454	433	477	444	3,435	3,808	-9.8
Transportation equipment.....	49,587	53,194	50,984	-6.8	4.3	3.0	50,459	38,739	55,203	55,230	401,390	414,432	-3.1
Automobiles.....	6,786	7,701	7,022	-11.9	9.7	1.7	6,987	4,931	7,370	8,001	56,284	58,855	-4.4
Light trucks and utility vehicles.....	10,023	11,063	10,248	-9.4	8.0	3.1	10,438	6,840	11,061	12,026	82,399	84,575	-2.6
Heavy duty trucks	1,014	1,056	1,140	-4.0	-7.4	3.9	1,057	1,010	1,274	1,351	8,528	8,925	-4.4
Motor vehicle bodies, parts, and trailers.....	17,592	18,329	17,692	-4.0	3.6	2.8	18,070	13,477	18,589	20,233	142,255	149,713	-5.0
Nondefense aircraft and parts.....	5,338	5,902	6,033	-9.6	-2.2	11.3	5,048	4,723	7,060	5,316	43,321	50,410	-14.1
Defense aircraft and parts.....	3,398	3,448	3,316	-1.5	4.0	3.2	3,357	2,918	3,920	2,895	25,212	22,073	14.2
Ships and boats.....	2,145	2,185	2,182	-1.8	0.1	2.7	2,270	1,813	2,185	1,991	16,575	13,818	20.0
Furniture and related products.....	5,938	6,020	5,765	-1.4	4.4	-1.8	6,377	5,661	5,799	6,250	45,870	46,707	-1.8
Miscellaneous durable goods	10,924	10,930	10,633	-0.1	2.8	1.0	10,724	10,270	11,434	10,145	83,702	78,847	6.2
Nondurable goods industries.....	154,700	155,487	151,861	-0.5	2.4	1.1	159,117	151,865	156,082	151,886	1,213,828	1,159,191	4.7
Food products.....	39,086	38,776	38,697	0.8	0.2	2.3	40,033	36,762	38,384	38,096	300,006	294,880	1.7
Grain and oilseed milling.....	4,179	4,098	4,004	2.0	2.3	-2.5	4,278	4,010	3,856	3,991	32,298	31,360	3.0
Dairy products.....	5,652	5,583	5,366	1.2	4.0	1.8	5,693	5,429	5,488	4,930	42,383	40,584	4.4
Meat, poultry, and seafood products.....	11,354	11,284	11,514	0.6	-2.0	6.7	11,928	10,986	11,525	11,257	88,668	88,313	0.4
Beverage and tobacco products.....	8,757	8,896	8,970	-1.6	-0.8	1.1	9,109	9,154	9,383	9,654	70,844	74,897	-5.4
Beverages.....	5,625	5,662	5,773	-0.7	-1.9	1.3	5,977	5,920	6,186	6,123	45,925	45,202	1.6
Tobacco.....	3,132	3,234	3,197	-3.2	1.2	0.7	3,132	3,234	3,197	3,531	24,919	29,695	-16.1
Textile mills.....	3,191	3,221	3,207	-0.9	0.4	2.0	3,412	2,940	3,493	3,788	26,400	28,993	-8.9
Textile products.....	2,895	2,910	2,836	-0.5	2.6	1.0	3,137	2,952	3,074	3,091	23,055	22,906	0.7
Apparel.....	4,266	4,286	4,346	-0.5	-1.4	2.0	4,797	4,477	4,255	5,038	34,391	35,501	-3.1
Leather and allied products.....	946	944	916	0.2	3.1	0.4	1,007	886	912	960	7,200	6,484	11.0
Paper products.....	13,152	13,421	13,459	-2.0	-0.3	0.4	13,402	13,264	13,811	13,733	105,848	99,484	6.4
Pulp, paper, and paperboard mills.....	5,640	5,817	5,769	-3.0	0.8	-0.6	5,803	5,794	5,828	6,396	46,239	46,144	0.2
Paperboard containers.....	3,571	3,624	3,721	-1.5	-2.6	0.5	3,682	3,595	3,836	4,309	29,328	29,633	-1.0
Printing.....	7,772	7,754	7,952	0.2	-2.5	-1.8	8,027	7,242	7,689	8,545	62,069	63,215	-1.8
Petroleum and coal products.....	20,971	19,922	19,218	5.3	3.7	2.2	22,341	20,650	20,228	18,872	158,933	133,588	19.0
Petroleum refineries.....	19,296	18,214	17,637	5.9	3.3	3.0	20,343	18,640	18,345	16,890	145,507	120,608	20.6
Basic chemicals.....	38,445	39,868	36,918	-3.6	8.0	0.1	38,231	38,284	38,828	34,560	301,685	279,889	7.8
Pesticides, fertilizers, and other agricultural chemicals.....	1,508	1,568	1,550	-3.8	1.2	11.0	1,090	1,343	1,707	1,197	13,272	14,502	-8.5
Pharmaceuticals and medicines.....	9,863	11,653	9,289	-15.4	25.4	-3.0	9,680	10,477	9,414	8,612	77,475	75,781	2.2
Paints, coatings, and adhesives.....	2,388	2,362	2,324	1.1	1.6	1.0	2,496	2,544	2,543	2,479	19,301	19,237	0.3
Plastics and rubber products.....	15,219	15,489	15,342	-1.7	1.0	1.3	15,621	15,254	16,025	15,549	123,397	119,354	3.4

^p Preliminary ^r Revised NA Not available.¹ Shipments are the totals for the period and are adjusted for trading-day and calendar-month variations. See note at end of Table 2 relating to survey error and revision.

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		
	Aug 2003 ^p	July 2003 ^r	June 2003	July - Aug	June - July	May - June	Aug 2003 ^p	July 2003 ^r	June 2003	Aug 2002	2003 ^p	2002	Percent Change 03/02
All manufacturing industries ²	327,825	330,551	324,098	-0.8	2.0	1.9	329,349	302,764	339,178	327,796	2,566,262	2,517,715	1.9
Excluding transportation ²	276,831	278,351	271,793	-0.5	2.4	1.3	279,332	266,663	284,521	268,651	2,163,889	2,102,895	2.9
Excluding defense ²	315,992	321,517	314,511	-1.7	2.2	1.9	319,791	297,103	329,817	321,252	2,490,757	2,454,716	1.5
With unfilled orders ²	122,499	122,062	121,162	0.4	0.7	2.3	118,486	106,260	127,425	122,114	950,453	955,228	-0.5
Durable goods industries ²	173,125	175,064	172,237	-1.1	1.6	2.5	170,232	150,899	183,096	175,910	1,352,434	1,358,524	-0.4
Primary metals.....	10,979	10,885	10,598	0.9	2.7	-0.5	11,129	10,136	11,024	11,773	88,188	91,551	-3.7
Iron and steel mills.....	5,218	5,019	4,672	4.0	7.4	-6.6	5,283	4,583	4,982	5,513	40,555	42,551	-4.7
Aluminum and nonferrous metals.....	4,526	4,573	4,667	-1.0	-2.0	5.6	4,541	4,417	4,738	4,851	37,303	38,321	-2.7
Ferrous metal foundries.....	1,235	1,293	1,259	-4.5	2.7	2.7	1,305	1,136	1,304	1,409	10,330	10,679	-3.3
Fabricated metal products.....	19,881	20,695	19,873	-3.9	4.1	-1.6	20,509	20,258	20,568	21,455	162,279	167,911	-3.4
Machinery.....	20,989	21,191	20,502	-1.0	3.4	2.7	20,237	19,781	21,833	19,799	166,394	163,967	1.5
Construction machinery.....	1,750	2,042	1,673	-14.3	22.1	-4.9	1,677	1,871	1,730	1,590	14,126	13,839	2.1
Mining, oil field, and gas field machinery.....	930	696	687	33.6	1.3	0.3	923	670	741	675	5,649	5,038	12.1
Industrial machinery.....	2,836	2,681	2,924	5.8	-8.3	1.6	2,372	2,788	3,058	2,339	23,047	21,627	6.6
Photographic equipment.....	891	851	838	4.7	1.6	6.6	880	821	936	822	6,458	6,207	4.0
Ventilation, heating, air-conditioning, and refrigeration equipment.....	2,724	2,809	2,433	-3.0	15.5	0.3	2,880	2,680	2,845	2,531	20,784	21,115	-1.6
Metalworking machinery.....	1,725	1,699	1,784	1.5	-4.8	7.2	1,657	1,479	1,854	1,962	13,313	15,385	-13.5
Turbines, generators, and other power transmission equipment.....	2,416	2,527	2,283	-4.4	10.7	2.0	2,447	2,160	2,488	2,434	18,609	18,526	0.4
Material handling equipment.....	1,159	1,274	1,215	-9.0	4.9	-2.2	1,028	1,166	1,274	1,264	10,125	10,289	-1.6
Computers and electronic products ²	30,145	30,085	29,328	0.2	2.6	3.7	27,027	25,148	32,768	23,527	219,483	209,016	5.0
Computers.....	5,272	5,108	4,677	3.2	9.2	-6.4	5,200	4,606	5,043	3,804	36,226	30,755	17.8
Nondefense communications equipment.....	6,411	6,716	5,922	-4.5	13.4	0.4	4,692	5,366	6,091	4,199	47,859	46,936	2.0
Defense communications equipment.....	375	419	461	-10.5	-9.1	8.5	377	382	473	278	3,431	2,711	26.6
Semiconductors ²	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electronic components.....	3,960	3,822	3,901	3.6	-2.0	-6.2	4,104	3,588	4,289	4,358	29,489	35,797	-17.6
Nondefense search and navigation equipment.....	871	928	862	-6.1	7.7	-15.3	796	857	915	738	6,792	6,239	8.9
Defense search and navigation equipment.....	3,394	2,888	2,328	17.5	24.1	11.1	2,812	1,870	2,672	1,180	19,388	14,085	37.6
Electromedical, measuring, and control instruments.....	5,951	5,957	6,724	-0.1	-11.4	15.2	5,578	5,347	7,736	5,266	47,174	42,814	10.2
Electrical equipment, appliances, and components.....	8,437	8,342	8,389	1.1	-0.6	2.0	8,362	7,870	8,945	8,500	66,000	67,991	-2.9
Electric lighting equipment.....	1,156	1,000	1,053	15.6	-5.0	4.1	1,120	848	1,160	1,040	8,198	8,172	0.3
Household appliances.....	1,940	1,950	1,880	-0.5	3.7	1.2	1,961	1,931	1,954	1,866	15,298	14,637	4.5
Electrical equipment.....	2,507	2,449	2,578	2.4	-5.0	3.6	2,511	2,330	2,789	2,483	19,881	19,769	0.6
Transportation equipment.....	50,994	52,200	52,305	-2.3	-0.2	5.1	50,017	36,101	54,657	59,145	402,373	414,820	-3.0
Motor vehicle bodies, parts, and trailers.....	17,527	18,483	17,685	-5.2	4.5	4.0	17,815	13,888	18,311	19,633	141,959	149,902	-5.3
Nondefense aircraft and parts.....	5,037	5,555	6,242	-9.3	-11.0	37.6	4,629	4,001	7,024	8,847	36,837	43,861	-16.0
Defense aircraft and parts.....	3,495	3,196	3,920	9.4	-18.5	-15.2	2,523	1,852	3,651	2,265	29,287	28,050	4.4
Ships and boats.....	4,016	1,868	2,127	115.0	-12.2	8.9	3,752	1,104	2,003	1,750	15,943	14,002	13.9
Furniture and related products.....	5,807	5,751	5,870	1.0	-2.0	-0.5	6,032	5,664	5,875	5,817	46,057	46,228	-0.4
Nondurable goods industries.....	154,700	155,487	151,861	-0.5	2.4	1.1	159,117	151,865	156,082	151,886	1,213,828	1,159,191	4.7

^p Preliminary ^r Revised NA Not available.¹ New orders are the totals for the period and are adjusted for trading-day and calendar-month variations.² Data on new orders are not available for the semiconductor industry. Estimates and percent changes for new orders exclude semiconductor industry data.

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(02), "Manufacturers' Shipments, Inventories, and Orders: 1992-2002."

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 Aug 03/02
	Aug 2003 ^P	July 2003 ^r	June 2003	July - Aug	June - July	May - June	Aug 2003 ^P	July 2003 ^r	June 2003	Aug 2002	
All manufacturing industries ¹	488,945	485,959	487,360	0.6	-0.3	0.3	485,703	486,595	489,445	498,174	-2.5
Excluding transportation ¹	241,023	239,444	239,851	0.7	-0.2	0.1	240,304	240,754	240,966	246,339	-2.4
Excluding defense ¹	335,581	335,178	336,071	0.1	-0.3	0.2	334,533	336,099	336,185	353,810	-5.4
Durable goods industries ¹	488,945	485,959	487,360	0.6	-0.3	0.3	485,703	486,595	489,445	498,174	-2.5
Primary metals.....	14,488	14,136	14,077	2.5	0.4	0.8	14,594	14,294	14,315	16,164	-9.7
Iron and steel mills.....	7,972	7,523	7,384	6.0	1.9	0.1	8,082	7,620	7,621	9,087	-11.1
Aluminum and nonferrous metals.....	4,277	4,383	4,485	-2.4	-2.3	2.1	4,295	4,483	4,497	4,881	-12.0
Ferrous metal foundries.....	2,239	2,230	2,208	0.4	1.0	0.3	2,217	2,191	2,197	2,196	1.0
Fabricated metal products.....	35,889	35,929	36,117	-0.1	-0.5	-0.8	36,400	36,763	36,372	39,486	-7.8
Machinery.....	41,332	41,360	41,433	-0.1	-0.2	-0.8	41,222	41,303	41,329	45,944	-10.3
Construction machinery.....	2,191	2,198	1,968	-0.3	11.7	-3.6	2,119	2,109	1,977	2,055	3.1
Mining, oil field, and gas field machinery.....	971	758	790	28.1	-4.1	0.8	971	758	790	982	-1.1
Industrial machinery.....	7,526	7,664	7,890	-1.8	-2.9	-1.3	7,589	7,821	7,823	8,088	-6.2
Photographic equipment.....	739	730	738	1.2	-1.1	3.9	761	750	731	536	42.0
Ventilation, heating, air-conditioning, and refrigeration equipment.....	4,522	4,331	4,141	4.4	4.6	-1.9	4,547	4,385	4,247	4,370	4.1
Metalworking machinery.....	3,614	3,649	3,689	-1.0	-1.1	4.1	3,632	3,685	3,670	3,676	-1.2
Turbines, generators, and other power transmission equipment.....	8,275	8,441	8,623	-2.0	-2.1	-3.3	8,327	8,414	8,524	13,425	-38.0
Material handling equipment.....	4,617	4,756	4,799	-2.9	-0.9	-1.9	4,444	4,653	4,804	4,660	-4.6
Computers and electronic products ¹	124,910	123,616	123,360	1.0	0.2	0.4	123,487	123,562	124,236	120,950	2.1
Computers.....	8,686	8,402	8,814	3.4	-4.7	3.1	8,826	8,260	8,959	6,623	33.3
Nondefense communications equipment.....	46,944	46,582	45,989	0.8	1.3	-0.7	45,898	46,746	46,372	45,038	1.9
Defense communications equipment...	3,035	3,118	3,140	-2.7	-0.7	1.2	3,035	3,118	3,140	2,809	8.0
Semiconductors ¹	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electronic components.....	12,980	13,047	13,302	-0.5	-1.9	-1.7	13,096	13,092	13,257	17,346	-24.5
Nondefense search and navigation equipment.....	4,748	4,704	4,641	0.9	1.4	0.3	4,698	4,745	4,691	4,499	4.4
Defense search and navigation equipment.....	34,828	34,043	33,978	2.3	0.2	-0.1	34,210	33,777	34,424	32,389	5.6
Electromedical, measuring, and control instruments.....	13,689	13,720	13,496	-0.2	1.7	6.0	13,724	13,824	13,393	12,246	12.1
Electrical equipment, appliances, and components.....	13,993	13,793	13,997	1.5	-1.5	0.7	14,098	13,916	13,813	14,193	-0.7
Electric lighting equipment.....	1,560	1,388	1,432	12.4	-3.1	0.7	1,612	1,439	1,470	1,479	9.0
Household appliances.....	970	1,044	1,094	-7.1	-4.6	-5.2	923	1,009	925	898	2.8
Electrical equipment.....	8,485	8,383	8,444	1.2	-0.7	1.3	8,553	8,433	8,416	8,420	1.6
Transportation equipment.....	247,922	246,515	247,509	0.6	-0.4	0.5	245,399	245,841	248,479	251,835	-2.6
Motor vehicle bodies, parts, and trailers.....	12,003	12,068	11,914	-0.5	1.3	-0.1	11,837	12,092	11,681	12,275	-3.6
Nondefense aircraft and parts.....	105,785	106,086	106,433	-0.3	-0.3	0.2	105,010	105,429	106,151	116,249	-9.7
Defense aircraft and parts.....	60,392	60,295	60,547	0.2	-0.4	1.0	60,039	60,873	61,939	56,981	5.4
Ships and boats.....	20,745	18,874	19,191	9.9	-1.7	-0.3	20,016	18,534	19,243	20,413	-1.9
Furniture and related products.....	5,349	5,480	5,749	-2.4	-4.7	1.9	5,441	5,786	5,783	5,815	-6.4

^P Preliminary^r Revised

NA Not available.

¹ Data on new orders are not available for the semiconductor industry. Estimates and percent changes for new orders exclude semiconductor industry data. 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 Aug 03/02
	Aug 2003 ^p	July 2003 ^r	June 2003	July - Aug	June - July	May - June	Aug 2003 ^p	July 2003 ^r	June 2003	Aug 2002	
All manufacturing industries.....	439,707	440,767	442,666	-0.2	-0.4	-0.3	442,960	442,188	439,285	446,323	-0.8
Excluding transportation.....	372,268	373,050	374,505	-0.2	-0.4	-0.2	374,437	373,951	371,947	378,630	-1.1
Excluding defense.....	416,915	417,721	419,621	-0.2	-0.5	-0.4	419,573	418,912	416,233	424,759	-1.2
With unfilled orders.....	206,335	207,478	209,126	-0.6	-0.8	-1.0	208,339	208,280	207,548	217,170	-4.1
Durable goods industries.....	263,352	264,638	266,154	-0.5	-0.6	-0.9	265,867	265,774	264,092	274,889	-3.3
Wood products.....	9,290	9,404	9,492	-1.2	-0.9	-1.1	9,145	9,250	9,282	9,672	-5.4
Nonmetallic mineral products.....	9,777	9,905	9,888	-1.3	0.2	0.1	9,744	9,953	9,957	9,347	4.2
Primary metals.....	17,865	17,989	18,222	-0.7	-1.3	-3.7	17,846	17,963	18,056	18,663	-4.4
Iron and steel mills.....	9,747	9,796	10,046	-0.5	-2.5	-7.3	9,758	9,788	9,866	10,402	-6.2
Aluminum and nonferrous metals.....	6,421	6,481	6,465	-0.9	0.2	1.3	6,431	6,481	6,447	6,600	-2.6
Ferrous metal foundries.....	1,697	1,712	1,711	-0.9	0.1	-0.5	1,657	1,694	1,743	1,661	-0.2
Fabricated metal products.....	31,028	31,115	31,479	-0.3	-1.2	-0.6	31,006	31,165	31,403	31,885	-2.8
Machinery.....	41,557	41,897	42,032	-0.8	-0.3	-1.0	41,644	41,690	41,590	43,694	-4.7
Farm machinery.....	2,165	2,181	2,184	-0.7	-0.1	0.0	2,087	2,106	2,150	2,008	3.9
Construction machinery.....	3,468	3,445	3,455	0.7	-0.3	-0.2	3,398	3,375	3,403	3,634	-6.5
Mining, oil field, and gas field machinery.....	2,307	2,298	2,279	0.4	0.8	0.4	2,340	2,300	2,311	2,283	2.5
Industrial machinery.....	6,599	6,634	6,715	-0.5	-1.2	-1.4	6,645	6,610	6,700	7,399	-10.2
Photographic equipment.....	1,399	1,408	1,388	-0.6	1.4	-2.8	1,405	1,408	1,376	1,388	1.2
Ventilation, heating, air-conditioning, and refrigeration equipment.....	4,105	4,080	4,055	0.6	0.6	0.5	4,136	4,094	4,034	3,952	4.7
Metalworking machinery.....	4,258	4,487	4,569	-5.1	-1.8	1.0	4,407	4,591	4,535	4,956	-11.1
Turbines, generators, and other power transmission equipment.....	4,100	4,091	4,180	0.2	-2.1	-1.1	4,200	4,121	4,101	4,664	-9.9
Material handling equipment.....	2,324	2,332	2,338	-0.3	-0.3	0.4	2,323	2,295	2,340	2,428	-4.3
Computers and electronic products.....	47,278	47,496	47,791	-0.5	-0.6	-0.6	48,512	48,091	47,257	54,223	-10.5
Computers.....	2,606	2,558	2,742	1.9	-6.7	6.9	2,759	2,503	2,665	2,649	4.2
Computer storage devices.....	1,222	1,200	1,182	1.8	1.5	-0.6	1,312	1,231	1,132	1,365	-3.9
Other peripheral equipment.....	2,313	2,330	2,365	-0.7	-1.5	-0.8	2,454	2,388	2,307	2,774	-11.5
Nondefense communications equipment.....	9,593	9,881	10,075	-2.9	-1.9	-2.8	9,814	10,068	9,839	13,991	-29.9
Defense communications equipment.....	1,297	1,283	1,284	1.1	-0.1	1.7	1,297	1,283	1,284	1,127	15.1
Audio and video equipment.....	977	989	956	-1.2	3.5	-3.0	1,035	1,024	933	1,184	-12.6
Semiconductors ¹	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electronic components.....	7,741	7,756	7,644	-0.2	1.5	-0.7	7,888	7,799	7,616	8,255	-4.4
Nondefense search and navigation equipment.....	2,625	2,644	2,664	-0.7	-0.8	1.4	2,641	2,689	2,632	2,733	-3.4
Defense search and navigation equipment.....	2,741	2,731	2,825	0.4	-3.3	-2.6	2,824	2,789	2,845	3,173	-11.0
Electromedical, measuring and control instruments.....	10,224	10,179	10,152	0.4	0.3	-0.5	10,441	10,194	10,051	10,728	-2.7
Electrical equipment, appliances, and components.....	12,345	12,400	12,526	-0.4	-1.0	-0.9	12,291	12,406	12,507	13,140	-6.5
Electric lighting equipment.....	1,492	1,495	1,507	-0.2	-0.8	-0.7	1,508	1,518	1,517	1,573	-4.1
Household appliances.....	2,026	2,064	2,043	-1.8	1.0	-0.1	1,977	2,074	2,064	2,080	-5.0
Electrical equipment.....	4,039	4,008	4,074	0.8	-1.6	-0.7	4,036	3,946	3,991	4,113	-1.9
Batteries.....	549	552	547	-0.5	0.9	-2.8	580	578	566	678	-14.5
Transportation equipment.....	67,439	67,717	68,161	-0.4	-0.7	-0.7	68,523	68,237	67,338	67,693	1.2
Automobiles.....	1,852	1,860	1,945	-0.4	-4.4	-1.5	1,900	1,975	1,873	1,934	-1.8
Light trucks and utility vehicles.....	2,408	2,357	2,243	2.2	5.1	4.1	2,560	2,456	2,175	2,384	7.4
Heavy duty trucks.....	747	736	721	1.5	2.1	-1.2	771	738	700	919	-16.1
Motor vehicle bodies, parts, and trailers.....	15,399	15,337	15,469	0.4	-0.9	-1.5	15,405	15,447	15,305	15,416	-0.1
Nondefense aircraft and parts.....	24,953	25,065	25,673	-0.4	-2.4	-2.6	25,245	25,048	25,211	26,305	-4.0
Defense aircraft and parts.....	10,575	10,875	10,811	-2.8	0.6	3.1	11,006	11,012	10,739	10,056	9.4
Ships and boats.....	2,775	2,746	2,779	1.1	-1.2	5.0	2,780	2,770	2,788	2,407	15.5
Furniture and related products.....	7,813	7,864	7,861	-0.6	0.0	0.1	7,887	8,036	8,001	7,858	0.4
Miscellaneous durable goods.....	18,960	18,851	18,702	0.6	0.8	0.1	19,269	18,983	18,701	18,714	3.0
Nondurable goods industries.....	176,355	176,129	176,512	0.1	-0.2	0.5	177,093	176,414	175,193	171,434	3.3
Food products.....	33,102	33,042	33,149	0.2	-0.3	0.0	33,124	32,401	31,930	32,487	2.0
Grain and oilseed milling.....	3,621	3,537	3,580	2.4	-1.2	0.1	3,454	3,359	3,373	3,344	3.3
Dairy products.....	3,485	3,488	3,548	-0.1	-1.7	-1.5	3,542	3,606	3,668	3,562	-0.6
Meat, poultry, and seafood products.....	6,001	5,998	5,959	0.1	0.7	-0.1	5,896	5,942	5,877	5,640	4.5
Beverage and tobacco products.....	14,625	14,610	14,561	0.1	0.3	-0.2	14,170	14,043	14,139	14,104	0.5
Beverages.....	9,784	9,751	9,669	0.3	0.8	-0.1	9,535	9,512	9,547	9,104	4.7
Tobacco.....	4,841	4,859	4,892	-0.4	-0.7	-0.3	4,635	4,531	4,592	5,000	-7.3
Textile mills.....	5,018	5,055	5,123	-0.7	-1.3	0.5	5,072	5,147	5,166	5,109	-0.7
Textile products.....	4,995	4,984	4,994	0.2	-0.2	-0.4	5,038	5,043	5,087	4,969	1.4
Apparel.....	7,361	7,407	7,329	-0.6	1.1	0.9	7,536	7,773	7,634	7,110	6.0
Leather and allied products.....	1,599	1,616	1,672	-1.1	-3.3	0.1	1,664	1,681	1,695	1,636	1.7
Paper products.....	14,860	14,905	14,989	-0.3	-0.6	0.1	14,804	14,879	14,963	14,410	2.7
Pulp, paper, and paperboard mills.....	6,660	6,688	6,649	-0.4	0.6	0.4	6,637	6,674	6,661	6,514	1.9
Paperboard containers.....	4,179	4,227	4,284	-1.1	-1.3	-0.2	4,152	4,219	4,250	3,993	4.0
Printing.....	6,270	6,238	6,162	0.5	1.2	-1.9	6,664	6,499	6,163	6,701	-0.6
Petroleum and coal products.....	15,775	15,262	15,422	3.4	-1.0	2.7	16,039	15,580	15,732	15,167	5.7
Petroleum refineries.....	14,229	13,728	13,879	3.6	-1.1	3.3	14,440	13,982	14,098	13,653	5.8
Basic chemicals.....	52,616	52,777	52,518	-0.3	0.5	0.8	52,976	53,076	52,156	51,389	3.1
Pesticides, fertilizers, and other agricultural chemicals.....	2,140	2,358	2,416	-9.2	-2.4	-0.7	1,837	2,032	2,148	2,134	-13.9
Pharmaceuticals and medicines.....	20,837	20,822	20,455	0.1	1.8	1.7	21,356	21,166	20,416	20,131	6.1
Paints, coatings, and adhesives.....	2,747	2,739	2,743	0.3	-0.1	-1.2	2,753	2,786	2,783	2,717	1.3
Plastics and rubber products.....	20,134	20,233	20,593	-0.5	-1.7	0.7	20,006	20,292	20,528	18,352	9.0

^p Preliminary ^r Revised NA Not available.¹ Inventories for semiconductor industry data are included in computers and electronic products and total durable goods industries, but are not shown separately.

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						Percent Change ⁶ 2003 / 2002
	Monthly			Percent Change			Monthly			Year to date			
	Aug 2003 ^p	July 2003 ^r	June 2003	July - Aug	June - July	May - June	Aug 2003 ^p	July 2003 ^r	June 2003	Aug 2002	2003 ^p	2002	
SHIPMENTS													
All manufacturing industries	331,254	337,248	328,643	-1.8	2.6	1.5	336,403	310,025	348,612	333,948	2,606,232	2,568,264	1.5
Construction materials and supplies.....	34,685	35,524	34,432	-2.4	3.2	0.9	37,153	35,627	37,363	37,751	277,454	280,946	-1.2
Information technology.....	28,088	29,055	27,884	-3.3	4.2	5.6	26,212	25,166	32,339	24,882	208,732	205,667	1.5
Computers and related products	7,735	8,583	7,632	-9.9	12.5	9.1	6,954	7,366	9,281	6,219	55,941	51,061	9.6
Motor vehicle and parts.....	35,415	38,149	36,102	-7.2	5.7	2.7	36,552	26,258	38,294	41,611	289,466	302,068	-4.2
Capital goods.....	64,201	66,381	64,324	-3.3	3.2	3.4	61,685	59,372	72,431	60,389	494,703	492,903	0.4
Nondefense capital goods ³	56,321	58,133	56,869	-3.1	2.2	3.8	54,017	52,007	64,336	54,071	435,904	441,829	-1.3
Excluding aircraft.....	53,922	55,277	53,903	-2.5	2.5	2.8	51,908	49,813	60,649	51,659	416,333	415,771	0.1
Defense capital goods ⁴	7,880	8,248	7,455	-4.5	10.6	0.2	7,668	7,365	8,095	6,318	58,799	51,074	15.1
Consumer goods.....	127,557	130,412	125,404	-2.2	4.0	1.4	131,424	119,340	128,655	127,638	998,156	967,801	3.1
Consumer durable goods.....	32,300	34,350	32,472	-6.0	5.8	1.2	32,991	25,717	34,383	35,273	258,578	262,781	-1.6
Consumer nondurable goods.....	95,257	96,062	92,932	-0.8	3.4	1.4	98,433	93,623	94,272	92,365	739,578	705,020	4.9
NEW ORDERS													
All manufacturing industries ⁵	327,825	330,551	324,098	-0.8	2.0	1.9	329,349	302,764	339,178	327,796	2,566,262	2,517,715	1.9
Construction materials and supplies.....	34,886	35,447	34,074	-1.6	4.0	0.0	37,088	36,027	36,817	37,138	277,456	282,079	-1.6
Information technology.....	29,458	29,509	28,705	-0.2	2.8	5.0	26,119	24,709	31,980	22,658	215,640	201,031	7.3
Computers and related products	8,019	8,171	7,896	-1.9	3.5	3.4	7,520	6,667	9,411	6,215	56,643	50,509	12.1
Motor vehicle and parts.....	35,350	38,303	36,095	-7.7	6.1	3.3	36,297	26,669	38,016	41,011	289,170	302,257	-4.3
Capital goods.....	67,104	65,656	65,768	2.2	-0.2	3.8	61,518	56,435	70,536	60,885	503,303	473,798	6.2
Nondefense capital goods ³	56,870	58,188	57,351	-2.3	1.5	3.6	53,132	51,690	62,497	55,253	437,936	424,344	3.2
Excluding aircraft.....	54,433	55,017	54,728	-1.1	0.5	1.9	51,103	49,556	59,398	49,295	423,447	405,592	4.4
Defense capital goods ⁴	10,234	7,468	8,417	37.0	-11.3	4.9	8,386	4,745	8,039	5,632	65,367	49,454	32.2
Consumer goods.....	127,288	130,210	125,334	-2.2	3.9	1.4	131,056	119,474	128,318	127,099	997,953	966,389	3.3
Consumer durable goods.....	32,031	34,148	32,402	-6.2	5.4	1.3	32,623	25,851	34,046	34,734	258,375	261,369	-1.1
Consumer nondurable goods.....	95,257	96,062	92,932	-0.8	3.4	1.4	98,433	93,623	94,272	92,365	739,578	705,020	4.9
UNFILLED ORDERS													
All manufacturing industries ⁵	488,945	485,959	487,360	0.6	-0.3	0.3	485,703	486,595	489,445	498,174	(X)	(X)	-2.5
Construction materials and supplies.....	30,562	30,361	30,438	0.7	-0.3	-1.2	31,135	31,200	30,800	32,991	(X)	(X)	-5.6
Information technology.....	115,647	114,277	113,823	1.2	0.4	0.7	114,162	114,255	114,712	107,536	(X)	(X)	6.2
Computers and related products	8,686	8,402	8,814	3.4	-4.7	3.1	8,826	8,260	8,959	6,623	(X)	(X)	33.3
Motor vehicle and parts.....	12,003	12,068	11,914	-0.5	1.3	-0.1	11,837	12,092	11,681	12,275	(X)	(X)	-3.6
Capital goods.....	351,005	348,102	348,827	0.8	-0.2	0.4	347,311	347,478	350,415	345,496	(X)	(X)	0.5
Nondefense capital goods ³	217,066	216,517	216,462	0.3	0.0	0.2	215,434	216,319	216,636	221,246	(X)	(X)	-2.6
Excluding aircraft.....	136,242	135,731	135,991	0.4	-0.2	0.6	135,385	136,190	136,447	134,763	(X)	(X)	0.5
Defense capital goods ⁴	133,939	131,585	132,365	1.8	-0.6	0.7	131,877	131,159	133,779	124,250	(X)	(X)	6.1
Consumer goods.....	111,694	111,963	121,165	-2.2	-1.7	-0.6	111,664	120,032	111,898	111,832	(X)	(X)	-1.4
Consumer durable goods.....	11,694	11,963	12,165	-2.2	-1.7	-0.6	11,664	12,032	11,898	11,832	(X)	(X)	-1.4
TOTAL INVENTORIES													
All manufacturing industries	439,707	440,767	442,666	-0.2	-0.4	-0.3	442,960	442,188	439,285	446,323	(X)	(X)	-0.8
Construction materials and supplies.....	46,621	46,928	47,241	-0.7	-0.7	-0.7	46,458	46,895	46,989	46,724	(X)	(X)	-0.6
Information technology.....	39,680	39,939	40,436	-0.6	-1.2	-0.8	40,630	40,330	39,873	46,270	(X)	(X)	-12.2
Computers and related products	6,141	6,088	6,289	0.9	-3.2	2.4	6,525	6,122	6,104	6,788	(X)	(X)	-3.9
Motor vehicle and parts.....	20,406	20,290	20,378	0.6	-0.4	-0.9	20,636	20,616	20,053	20,653	(X)	(X)	-0.1
Capital goods.....	124,676	125,278	126,711	-0.5	-1.1	-0.5	126,518	125,636	125,412	134,688	(X)	(X)	-6.1
Nondefense capital goods ³	106,175	106,594	107,844	-0.4	-1.2	-1.1	107,581	106,840	106,594	116,599	(X)	(X)	-7.7
Excluding aircraft.....	88,470	88,853	89,379	-0.4	-0.6	-0.6	89,663	89,167	88,533	96,778	(X)	(X)	-7.4
Defense capital goods ⁴	18,501	18,684	18,867	-1.0	-1.0	3.3	18,937	18,796	18,818	18,089	(X)	(X)	4.7
Consumer goods.....	135,396	134,971	134,710	0.3	0.2	0.5	136,351	135,218	133,529	132,930	(X)	(X)	2.6
Consumer durable goods.....	27,240	27,340	27,264	-0.4	0.3	-0.4	27,609	27,696	27,093	27,844	(X)	(X)	-0.8
Consumer nondurable goods.....	108,156	107,631	107,446	0.5	0.2	0.8	108,742	107,522	106,436	105,086	(X)	(X)	3.5

^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 Estimates and percent changes exclude semiconductor industry data.

⁶ Based on year-to-date for shipments and new orders, but on same month prior year for unfilled orders and 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 Aug 03/02
	Aug 2003 ^p	July 2003 ^r	June 2003	July - Aug	June - July	May - June	Aug 2003 ^p	July 2003 ^r	June 2003	Aug 2002	
MATERIALS AND SUPPLIES											
All manufacturing industries	143,013	144,123	146,029	-0.8	-1.3	-1.1	143,494	144,541	144,733	151,542	-5.3
Durable goods industries	84,063	85,203	86,243	-1.3	-1.2	-1.0	84,764	85,594	85,058	92,408	-8.3
Wood products.....	3,524	3,562	3,582	-1.1	-0.6	-0.5	3,502	3,425	3,312	3,618	-3.2
Nonmetallic mineral products.....	3,347	3,446	3,394	-2.9	1.5	-1.1	3,385	3,455	3,372	3,425	-1.2
Primary metals.....	5,833	5,925	6,113	-1.6	-3.1	-4.9	5,870	5,932	6,002	6,395	-8.2
Fabricated metal products.....	10,955	11,032	11,180	-0.7	-1.3	-1.5	11,016	11,093	11,135	11,560	-4.7
Machinery.....	12,522	12,982	13,069	-3.5	-0.7	-0.6	12,606	13,036	12,905	14,224	-11.4
Computers and electronic products	16,919	17,051	17,339	-0.8	-1.7	-2.1	17,231	17,126	17,284	20,398	-15.5
Electrical equipment, appliances, and components.....	4,688	4,696	4,777	-0.2	-1.7	-1.0	4,675	4,696	4,735	5,029	-7.0
Transportation equipment.....	16,860	17,063	17,314	-1.2	-1.4	0.6	16,946	17,255	16,844	17,709	-4.3
Furniture and related products.....	3,261	3,274	3,265	-0.4	0.3	-1.0	3,266	3,316	3,283	3,397	-3.9
Miscellaneous products.....	6,154	6,172	6,210	-0.3	-0.6	1.3	6,267	6,260	6,186	6,653	-5.8
Nondurable goods industries.....	58,950	58,920	59,786	0.1	-1.4	-1.2	58,730	58,947	59,675	59,134	-0.7
Food products.....	10,249	10,279	10,449	-0.3	-1.6	-1.6	10,083	10,210	10,397	10,665	-5.5
Beverage and tobacco products.....	5,498	5,424	5,507	1.4	-1.5	-0.5	5,352	5,236	5,379	5,631	-5.0
Textiles.....	1,380	1,394	1,441	-1.0	-3.3	-4.2	1,395	1,412	1,439	1,533	-9.0
Textile products.....	1,708	1,710	1,732	-0.1	-1.3	-3.2	1,739	1,740	1,750	1,779	-2.2
Apparel.....	1,727	1,715	1,724	0.7	-0.5	-1.7	1,693	1,714	1,744	1,757	-3.6
Leather and allied products.....	436	432	439	0.9	-1.6	0.7	449	451	450	425	5.6
Paper products.....	6,835	6,897	7,007	-0.9	-1.6	0.4	6,785	6,845	6,931	6,695	1.3
Printing	2,768	2,777	2,780	-0.3	-0.1	-2.4	2,828	2,830	2,774	2,879	-1.8
Petroleum and coal products.....	4,606	4,425	4,454	4.1	-0.7	-1.9	4,649	4,466	4,604	3,885	19.7
Basic chemicals.....	16,422	16,554	17,036	-0.8	-2.8	-0.4	16,431	16,610	17,030	16,845	-2.5
Plastics and rubber products.....	7,321	7,313	7,217	0.1	1.3	-3.0	7,326	7,433	7,177	7,040	4.1
WORK IN PROCESS											
All manufacturing industries	127,764	127,885	127,409	-0.1	0.4	-0.8	129,140	128,246	126,085	128,564	0.4
Durable goods industries	96,323	96,383	96,243	-0.1	0.1	-1.6	97,588	96,736	95,521	97,485	0.1
Wood products.....	1,929	1,958	1,971	-1.5	-0.7	-1.8	1,929	1,956	1,973	2,126	-9.3
Nonmetallic mineral products.....	1,193	1,208	1,219	-1.2	-0.9	0.3	1,196	1,222	1,228	1,210	-1.2
Primary metals.....	6,045	6,057	6,066	-0.2	-0.1	-4.3	6,050	6,073	6,066	6,300	-4.0
Fabricated metal products.....	9,297	9,192	9,346	1.1	-1.6	-0.3	9,435	9,285	9,373	9,584	-1.6
Machinery.....	14,485	14,049	14,085	3.1	-0.3	-0.7	14,758	14,103	14,146	14,774	-0.1
Computers and electronic products	18,073	18,125	18,006	-0.3	0.7	-0.9	18,416	18,345	17,798	19,576	-5.9
Electrical equipment, appliances, and components.....	2,880	2,894	2,902	-0.5	-0.3	-0.9	2,898	2,927	2,914	3,117	-7.0
Transportation equipment.....	37,364	37,772	37,916	-1.1	-0.4	-1.9	37,766	37,612	37,252	36,271	4.1
Furniture and related products.....	1,534	1,585	1,560	-3.2	1.6	2.2	1,537	1,605	1,568	1,576	-2.5
Miscellaneous products.....	3,523	3,543	3,172	-0.6	11.7	-7.5	3,603	3,608	3,203	2,951	22.1
Nondurable goods industries.....	31,441	31,502	31,166	-0.2	1.1	1.9	31,552	31,510	30,564	31,079	1.5
Food products.....	2,997	3,001	2,955	-0.1	1.6	0.0	2,716	2,776	2,694	2,351	15.5
Beverage and tobacco products.....	4,512	4,530	4,424	-0.4	2.4	0.0	4,174	4,150	4,059	3,981	4.8
Textiles.....	1,289	1,293	1,296	-0.3	-0.2	-0.2	1,287	1,305	1,298	1,276	0.9
Textile products.....	704	711	714	-1.0	-0.4	-0.7	708	717	717	762	-7.1
Apparel.....	1,217	1,228	1,251	-0.9	-1.8	3.4	1,231	1,289	1,323	1,493	-17.5
Leather and allied products.....	153	159	157	-3.8	1.3	-4.8	159	169	153	217	-26.7
Paper products.....	1,141	1,157	1,171	-1.4	-1.2	-0.8	1,178	1,179	1,186	1,380	-14.6
Printing	1,772	1,745	1,714	1.5	1.8	-2.0	1,982	1,899	1,700	2,165	-8.5
Petroleum and coal products.....	4,377	4,429	4,172	-1.2	6.2	9.2	4,494	4,535	4,193	4,467	0.6
Basic chemicals.....	10,878	10,760	10,723	1.1	0.3	1.6	11,239	11,018	10,693	10,668	5.4
Plastics and rubber products.....	2,401	2,489	2,589	-3.5	-3.9	2.6	2,384	2,473	2,548	2,319	2.8
FINISHED GOODS											
All manufacturing industries	168,930	168,759	169,228	0.1	-0.3	0.7	170,326	169,401	168,467	166,217	2.5
Durable goods industries	82,966	83,052	83,668	-0.1	-0.7	0.2	83,515	83,444	83,513	84,996	-1.7
Wood products.....	3,837	3,884	3,939	-1.2	-1.4	-1.3	3,714	3,869	3,997	3,928	-5.4
Nonmetallic mineral products.....	5,237	5,251	5,275	-0.3	-0.5	0.8	5,163	5,276	5,357	4,712	9.6
Primary metals.....	5,987	6,007	6,043	-0.3	-0.6	-2.0	5,926	5,958	5,988	5,968	-0.7
Fabricated metal products.....	10,776	10,891	10,953	-1.1	-0.6	0.1	10,555	10,787	10,895	10,741	-1.7
Machinery.....	14,550	14,866	14,878	-2.1	-0.1	-1.7	14,280	14,551	14,539	14,696	-2.8
Computers and electronic products	12,286	12,320	12,446	-0.3	-1.0	2.0	12,865	12,620	12,175	14,249	-9.7
Electrical equipment, appliances, and components.....	4,777	4,810	4,847	-0.7	-0.8	-0.7	4,718	4,783	4,858	4,994	-5.5
Transportation equipment.....	13,215	12,882	12,931	2.6	-0.4	0.9	13,811	13,370	13,242	13,713	0.7
Furniture and related products.....	3,018	3,005	3,036	0.4	-1.0	0.3	3,084	3,115	3,150	2,885	6.9
Miscellaneous products.....	9,283	9,136	9,320	1.6	-2.0	2.1	9,399	9,115	9,312	9,110	3.2
Nondurable goods industries.....	85,964	85,707	85,560	0.3	0.2	1.3	86,811	85,957	84,954	81,221	6.9
Food products.....	19,856	19,762	19,745	0.5	0.1	0.8	20,325	19,415	18,839	19,471	4.4
Beverage and tobacco products.....	4,615	4,656	4,630	-0.9	0.6	0.1	4,644	4,657	4,701	4,492	3.4
Textiles.....	2,349	2,368	2,386	-0.8	-0.8	4.0	2,390	2,430	2,429	2,300	3.9
Textile products.....	2,583	2,563	2,548	0.8	0.6	1.8	2,591	2,586	2,620	2,428	6.7
Apparel.....	4,417	4,464	4,354	-1.1	2.5	1.3	4,612	4,770	4,567	3,860	19.5
Leather and allied products.....	1,010	1,025	1,076	-1.5	-4.7	0.6	1,056	1,061	1,092	994	6.2
Paper products.....	6,884	6,851	6,811	0.5	0.6	-0.1	6,841	6,855	6,846	6,335	8.0
Printing	1,730	1,716	1,668	0.8	2.9	-1.1	1,854	1,770	1,689	1,657	11.9
Petroleum and coal products.....	6,792	6,408	6,796	6.0	-5.7	2.1	6,896	6,579	6,935	6,815	1.2
Basic chemicals.....	25,316	25,463	24,759	-0.6	2.8	1.3	25,306	25,448	24,433	23,876	6.0
Plastics and rubber products.....	10,412	10,431	10,787	-0.2	-3.3	2.9	10,296	10,386	10,803	8,993	14.5

^P Preliminary^F Revised

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			
	Aug 2003 ^p	Jul 2003 ^r	Jun 2003	May 2003	Aug 2003 ^p	Jul 2003 ^r	Jun 2003	May 2003
All manufacturing industries ²	1.33	1.31	1.35	1.37	(X)	(X)	(X)	(X)
Durable goods industries ²	1.49	1.46	1.51	1.54	4.09	3.94	4.07	4.11
Wood products.....	1.20	1.23	1.27	1.32	(X)	(X)	(X)	(X)
Nonmetallic mineral products.....	1.34	1.35	1.37	1.38	(X)	(X)	(X)	(X)
Primary metals.....	1.68	1.66	1.74	1.75	1.36	1.31	1.34	1.29
Fabricated metal products.....	1.56	1.49	1.56	1.57	1.89	1.81	1.88	1.89
Machinery.....	1.98	1.97	2.02	2.04	2.17	2.14	2.19	2.20
Computers and electronic products ²	1.34	1.35	1.37	1.45	5.01	4.83	5.07	5.27
Electrical equipment, appliances, and components.....	1.50	1.45	1.51	1.52	1.80	1.72	1.78	1.77
Transportation equipment.....	1.36	1.27	1.34	1.39	7.81	7.39	7.60	7.80
Furniture and related products.....	1.32	1.31	1.36	1.34	1.02	1.03	1.13	1.09
Miscellaneous products.....	1.74	1.72	1.76	1.78	(X)	(X)	(X)	(X)
Nondurable goods industries.....	1.14	1.13	1.16	1.17	(X)	(X)	(X)	(X)
Food products.....	0.85	0.85	0.86	0.88	(X)	(X)	(X)	(X)
Beverage and tobacco products.....	1.67	1.64	1.62	1.64	(X)	(X)	(X)	(X)
Textiles.....	1.57	1.57	1.60	1.62	(X)	(X)	(X)	(X)
Textile products.....	1.73	1.71	1.76	1.79	(X)	(X)	(X)	(X)
Apparel.....	1.73	1.73	1.69	1.70	(X)	(X)	(X)	(X)
Leather and allied products.....	1.69	1.71	1.83	1.83	(X)	(X)	(X)	(X)
Paper products.....	1.13	1.11	1.11	1.12	(X)	(X)	(X)	(X)
Printing.....	0.81	0.80	0.77	0.78	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.75	0.77	0.80	0.80	(X)	(X)	(X)	(X)
Basic chemicals.....	1.37	1.32	1.42	1.41	(X)	(X)	(X)	(X)
Plastics and rubber products.....	1.32	1.31	1.34	1.35	(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 Unfilled orders to shipments ratio excludes semiconductor manufacturing.

Table 8. Revisions to Previously Published Monthly Percent Changes

[Based on Seasonally Adjusted data]

Industry	Shipments			New Orders			Unfilled Orders			Inventories		
	Aug ¹ 2003	Aug ² 1998-2002	Aug 2002-Jul 2003	Aug ¹ 2003	Aug ² 1998-2002	Aug 2002-Jul 2003	Aug ¹ 2003	Aug ² 1998-2002	Aug 2002-Jul 2003	Aug ¹ 2003	Aug ² 1998-2002	Aug 2002-Jul 2003
All manufacturing industries	(X)	(NA)	0.2	(X)	(NA)	0.2	(X)	(NA)	0.1	(X)	(NA)	0.1
Durable goods industries	0.0	(NA)	0.3	-0.2	(NA)	0.4	-0.1	(NA)	0.1	-0.1	(NA)	0.1
Wood products.....	(X)	(NA)	0.7	(X)	(NA)	(NA)	(X)	(NA)	(X)	(NA)	(NA)	0.3
Nonmetallic mineral products.....	(X)	(NA)	0.5	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.2
Primary metals.....	0.1	(NA)	0.5	-2.0	(NA)	0.8	-0.9	(NA)	0.4	0.0	(NA)	0.4
Fabricated metal products.....	-0.2	(NA)	0.4	-0.3	(NA)	0.9	-0.1	(NA)	0.4	-0.2	(NA)	0.3
Machinery.....	-0.1	(NA)	0.4	-0.3	(NA)	0.9	-0.2	(NA)	0.4	0.0	(NA)	0.3
Computers and electronic products	0.8	(NA)	0.6	0.3	(NA)	1.1	-0.1	(NA)	0.2	-0.2	(NA)	0.2
Electrical equipment, appliances, and components.....	-0.2	(NA)	0.4	-0.2	(NA)	0.7	0.1	(NA)	0.3	0.0	(NA)	0.1
Transportation equipment.....	-0.1	(NA)	0.5	-0.1	(NA)	1.1	0.0	(NA)	0.2	0.1	(NA)	0.2
Furniture and related products.....	(X)	(NA)	0.7	(X)	(NA)	1.5	(X)	(NA)	1.1	(X)	(NA)	0.1
Miscellaneous products.....	(X)	(NA)	0.6	(X)	(NA)	0.9	(X)	(NA)	1.2	(X)	(NA)	0.3
Nondurable goods industries.....	(X)	(NA)	0.3	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.2
Food products.....	(X)	(NA)	0.6	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.2
Beverage and tobacco products.....	(X)	(NA)	0.5	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.2
Textiles.....	(X)	(NA)	1.8	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.3
Textile products.....	(X)	(NA)	0.7	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.2
Apparel.....	(X)	(NA)	1.0	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.5
Leather and allied products.....	(X)	(NA)	2.1	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	1.3
Paper products.....	(X)	(NA)	1.0	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.3
Printing.....	(X)	(NA)	0.4	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.5
Petroleum and coal products.....	(X)	(NA)	1.0	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.8
Basic chemicals.....	(X)	(NA)	0.6	(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.

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>.