

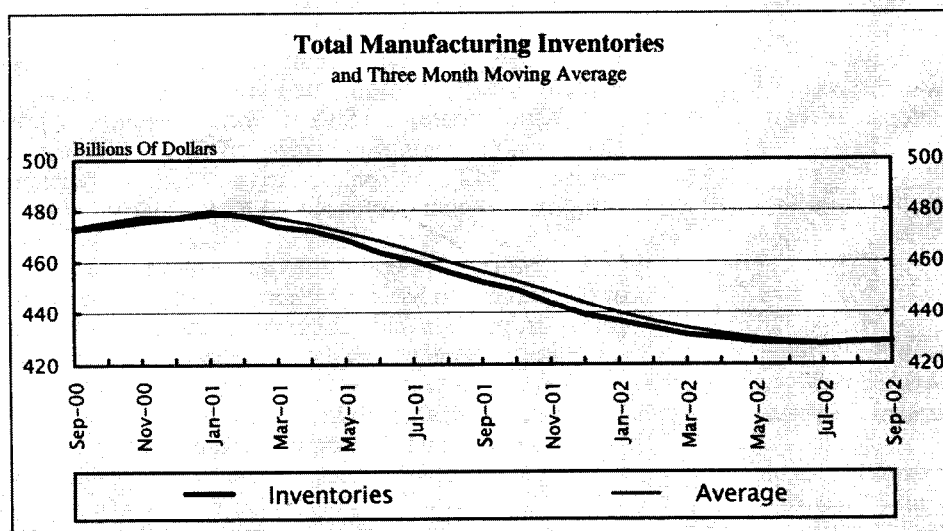
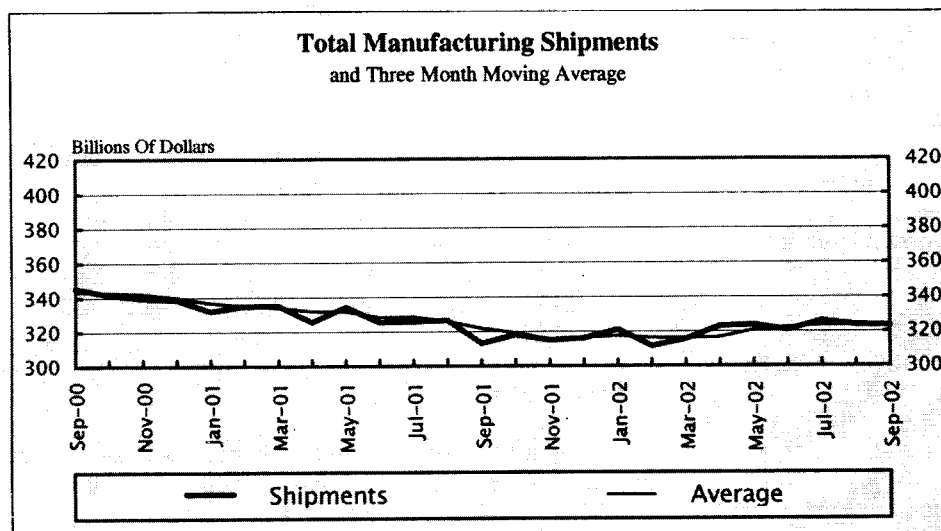
Manufacturers' Shipments, Inventories, and Orders

September
2002

M3-1(02)-9

For Wire Transmission 10:00 a.m. E.S.T., November 4, 2002

Charts exclude semiconductor data



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 October is scheduled for November 27, 2002 at 10:00 a.m. and the full report on December 4, 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 and **exclude data for semiconductor manufacturing**

Summary

New orders for manufactured goods in September decreased \$7.4 billion or 2.3 percent to \$318.1 billion, the Department of Commerce, Census Bureau reported today. This followed a 0.4 percent August decrease. Year to date, new orders for 2002 were 1.7 percent below the same period a year ago.

Shipments decreased \$0.3 billion or 0.1 percent to \$323.4 billion, following a 0.7 percent August decrease. Year to date, shipments for 2002 were 2.2 percent below the same period a year ago.

Unfilled orders decreased \$5.4 billion or 1.1 percent to \$485.3 billion, following a 0.4 percent August increase. The unfilled orders-to-shipments ratio was 3.97, down from 4.02 in August.

Inventories increased \$0.2 billion to \$428.8 billion, following a 0.1 percent August increase. The inventories-to-shipments ratio was 1.33, up from 1.32 in August.

New Orders

New Orders for manufactured durable goods in September decreased \$8.7 billion or 4.9 percent to \$168.6 billion, revised from the previously published 5.9 percent decrease.

Transportation equipment had the largest decrease, \$9.1 billion or 15.9 percent to \$48.4 billion and was the largest decrease since November 2001, led by nondefense aircraft and parts which decreased by \$4.2 billion.

New orders for nondurable goods increased \$1.3 billion or 0.9 percent to \$149.4 billion.

Shipments

Shipments of manufactured durable goods in September decreased \$1.6 billion or 0.9 percent to \$174.0 billion, revised from the previously published 1.1 percent decrease.

Transportation equipment had the largest decrease, \$0.5 billion or 0.9 percent to \$52.2 billion, led by automobiles which decreased \$0.6 billion and light trucks and utility vehicles which decreased \$0.4 billion. Machinery decreased \$0.3 billion or 1.3 percent to \$22.8 billion, due to industrial machinery which decreased by \$0.3 billion.

Shipments of nondurable goods increased \$1.3 billion or 0.9 percent to \$149.4 billion. Basic chemicals had the largest increase, \$1.6 billion or 4.6 percent to \$36.0 billion, due to pharmaceuticals and medicines which increased \$1.4 billion.

Unfilled Orders

Unfilled Orders for manufactured durable goods in September decreased \$5.4 billion or 1.1 percent to \$485.3 billion, revised from the previously published 1.3 percent decrease.

Transportation equipment had the largest decrease, \$3.8 billion or 1.5 percent to \$251.2 billion, led by nondefense aircraft and parts which decreased \$1.5 billion. Computers and electronic products, down twenty consecutive months, decreased \$1.2 billion or 1.1 percent to \$109.1 billion, due to nondefense communications equipment which decreased \$2.2 billion.

Inventories

Inventories of durable goods in September, down twenty consecutive months, decreased \$0.8 billion or 0.3 percent to \$263.3 billion, revised from the previously published 0.2 percent decrease. Durable goods inventories were at their lowest level since December 1995.

Transportation equipment decreased \$0.3 billion or 0.5 percent to \$70.9 billion, due to nondefense aircraft and parts which decreased \$0.8 billion. Computers and electronic products also decreased \$0.3 billion or 0.7 percent to \$42.5 billion, due to nondefense communications equipment which decreased \$0.8 billion.

Inventories of nondurable goods increased \$1.0 billion or 0.6 percent to \$165.5 billion, led by petroleum and coal products, plastics and rubber products, and beverage and tobacco products which each increased \$0.3 billion.

By stage of fabrication, September materials and supplies decreased 0.6 percent in durables and increased 0.4 percent in nondurables. Work in process decreased 0.6 percent in durables and increased 0.6 percent in nondurables. Finished goods increased 0.4 percent in durables and 0.8 percent in nondurables.

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				Percent	Year to date	
	Sept. 2002 ^p	Aug. 2002 ^r	July 2002	Aug. - Sept.	July - Aug.	June - July	Sept. 2002 ^p	Aug. 2002 ^r	July 2002	Sept. 2001	Change Sept. 02/01	2002 ^p	2001
All manufacturing industries ²	323,410	323,729	326,101	-0.1	-0.7	1.6	340,644	331,896	297,552	330,356	3.1	2,886,527	2,947,917
Excluding transportation	271,208	271,070	271,144	0.1	0.0	0.7	285,186	276,605	258,920	279,398	2.1	2,416,043	2,502,709
Excluding defense ²	315,303	315,995	318,376	-0.2	-0.7	1.8	331,685	324,470	290,757	322,408	2.9	2,818,272	2,888,596
With unfilled orders ²	122,136	122,167	123,835	0.0	1.3	1.9	131,069	123,053	108,369	127,588	2.7	1,095,510	1,139,470
Durable goods industries ²	173,962	175,561	178,739	-0.9	-1.8	3.2	186,198	178,880	153,343	178,840	4.1	1,565,844	1,586,758
Wood products	7,150	7,264	7,359	-1.6	-1.3	0.1	7,529	7,825	7,737	7,796	-3.4	67,163	67,246
Nonmetallic mineral products	8,535	8,587	8,419	-0.6	2.0	0.2	8,933	9,409	8,666	7,610	17.4	74,472	69,253
Primary metals	11,331	11,395	11,355	-0.6	0.4	1.3	11,494	11,799	10,655	11,030	4.2	101,897	105,038
Iron and steel mills	5,380	5,339	5,255	0.8	1.6	1.9	5,447	5,529	5,014	4,851	12.3	46,753	46,591
Aluminum and nonferrous metals	4,646	4,725	4,773	-1.7	-1.0	1.3	4,721	4,871	4,475	4,811	-1.9	42,975	45,762
Ferrous metal foundries	1,305	1,331	1,327	-2.0	0.3	-0.7	1,326	1,399	1,166	1,368	-3.1	12,169	12,685
Fabricated metal products	21,240	21,358	21,353	-0.6	0.0	1.5	21,833	22,441	20,336	21,159	3.2	190,217	192,072
Machinery	22,760	23,063	23,257	-1.3	-0.8	1.4	23,947	22,270	21,145	23,436	2.2	206,717	217,815
Farm machinery	1,540	1,559	1,488	-1.2	4.8	1.2	1,566	1,435	1,432	1,402	11.7	14,091	12,253
Construction machinery	1,649	1,668	1,721	-1.1	-3.1	6.0	1,564	1,581	1,612	1,580	-1.0	15,588	16,362
Mining, oil field, and gas field machinery	731	710	728	3.0	-2.5	-1.0	745	700	690	851	-12.5	6,573	7,156
Industrial machinery	3,060	3,319	3,307	-7.8	0.4	8.4	3,175	3,097	3,119	3,233	-1.8	27,465	31,491
Photographic equipment	1,451	1,496	1,456	-3.0	2.7	2.7	1,605	1,452	1,379	1,491	7.6	12,471	12,658
Ventilation, heating, air-conditioning, and refrigeration equipment	2,609	2,636	2,637	-1.0	0.0	-1.5	2,689	2,742	2,486	2,842	-5.4	24,165	26,155
Metalworking machinery	2,048	2,044	2,070	0.2	-1.3	-0.9	2,462	1,955	1,727	2,535	-2.9	18,143	20,234
Turbines, generators, and other power transmission equipment	2,987	2,948	3,102	1.3	-5.0	3.4	3,425	2,809	2,374	2,660	28.8	27,342	26,061
Material handling equipment	1,335	1,353	1,362	-1.3	-0.7	2.3	1,344	1,304	1,324	1,517	-11.4	12,518	14,540
Computers and electronic products ²	26,354	26,498	26,943	-0.5	-1.7	3.1	30,907	24,765	23,069	30,885	0.1	234,007	259,716
Electronic computers	4,171	4,111	4,424	1.5	-7.1	18.4	4,913	3,617	3,920	4,230	16.1	34,553	40,508
Computer storage devices	1,310	1,172	1,090	11.8	7.5	-10.5	1,903	1,003	654	1,535	24.0	10,982	10,099
Other peripheral equipment	1,329	1,563	1,558	-15.0	0.3	20.2	1,820	1,427	1,104	2,504	-27.3	12,873	15,218
Nondefense communications equipment	5,163	5,161	5,140	0.0	0.4	-2.6	6,160	4,634	4,298	7,332	-16.0	47,189	62,958
Defense communications equipment	286	303	307	-5.6	-1.3	3.7	318	301	281	328	-3.0	2,787	2,685
Audio and video equipment	681	699	727	-2.6	-3.9	-4.0	761	687	647	798	-4.6	6,217	6,077
Semiconductors ³	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electronic components	4,080	4,208	4,234	-3.0	-0.6	-0.8	4,498	4,290	3,901	4,336	3.7	37,540	42,838
Nondefense search and navigation equipment	790	768	791	2.9	-2.9	1.9	905	785	732	865	4.6	6,892	7,283
Defense search and navigation equipment	2,000	1,921	1,937	4.1	-0.8	-1.1	2,142	1,785	1,719	1,993	7.5	17,156	16,557
Electromedical, measuring, and control instruments	5,889	5,908	6,064	-0.3	-2.6	2.8	6,780	5,551	5,196	6,259	8.3	52,019	49,429
Electrical equipment, appliances, and components	8,914	8,937	9,106	-0.3	-1.9	1.0	9,865	8,919	8,177	10,216	-3.4	81,077	91,275
Electric lighting equipment	1,051	1,057	1,076	-0.6	-1.8	-0.1	1,172	1,059	891	1,098	6.7	9,552	9,670
Household appliances	2,051	2,008	2,069	2.1	-2.9	4.2	2,167	2,059	1,929	2,065	4.9	18,313	18,017
Electrical equipment	2,551	2,551	2,606	0.0	-2.1	-1.6	2,970	2,572	2,359	3,217	-7.7	23,448	26,389
Batteries	464	456	505	1.8	-9.7	-3.1	554	452	394	714	-22.4	4,432	5,086
Transportation equipment	52,202	52,659	54,957	-0.9	-4.2	6.7	55,458	55,291	38,632	50,958	8.8	470,484	445,208
Automobiles	7,657	8,221	9,247	-6.9	-11.1	16.6	8,066	8,749	5,392	7,247	11.3	72,594	67,011
Light trucks and utility vehicles	10,268	10,658	11,257	-3.7	-5.3	14.5	10,742	11,579	6,516	9,119	17.8	91,928	82,949
Heavy duty trucks	1,265	1,298	1,292	-2.5	0.5	5.8	1,260	1,396	1,233	1,011	24.6	10,503	10,131
Motor vehicle bodies, parts, and trailers	18,439	18,644	18,417	-1.1	1.2	1.5	18,913	19,985	13,612	16,683	13.4	166,545	157,390
Nondefense aircraft and parts	6,287	5,678	6,555	10.7	-13.4	6.7	7,030	5,361	5,066	8,401	-16.3	57,869	66,885
Defense aircraft and parts	3,183	2,963	3,142	7.4	-5.7	-0.4	3,614	2,914	2,681	3,007	20.2	25,854	19,942
Ships and boats	1,752	1,878	1,759	-6.7	6.8	4.5	1,943	2,024	1,449	1,766	10.0	16,002	14,478
Furniture and related products	5,507	5,631	5,721	-2.2	-1.6	1.9	5,788	6,007	5,288	5,761	0.5	50,573	52,611
Miscellaneous durable goods	9,969	10,169	10,269	-2.0	-1.0	2.6	10,444	10,154	9,638	9,989	4.6	89,237	86,524
Nondurable goods industries	149,448	148,168	147,362	0.9	0.5	-0.2	154,446	153,016	144,209	151,516	1.9	1,320,683	1,361,159
Food products	37,871	37,870	37,318	0.0	1.5	0.9	39,157	38,227	35,330	39,400	-0.6	335,283	336,090
Grain and oilseed milling	3,993	4,022	4,094	-0.7	-1.8	-0.9	3,919	4,106	3,971	3,827	2.4	36,245	35,171
Dairy products	4,970	4,951	5,036	0.4	-1.7	-1.0	5,127	5,023	4,814	5,963	-14.0	46,578	49,940
Meat, poultry, and seafood products	10,668	10,850	11,064	-1.7	-1.9	2.1	10,513	11,289	10,666	11,455	-8.2	99,150	100,157
Beverage and tobacco products	8,924	9,100	9,109	-1.9	-0.1	0.1	9,040	9,583	9,350	9,474	-4.6	83,110	87,970
Beverages	5,714	5,751	5,822	-0.6	-1.2	4.2	5,830	6,234	6,063	5,640	3.4	51,853	50,080
Tobacco	3,210	3,349	3,287	-4.2	1.9	-6.5	3,210	3,349	3,287	3,834	-16.3	31,257	37,890
Textile mills	3,445	3,533	3,760	-2.5	-6.0	7.0	3,769	3,727	3,384	3,991	-5.6	32,280	34,624
Textile products	3,080	3,062	3,064	0.6	-0.1	-1.2	3,211	3,326	3,058	3,028	6.0	27,966	26,182
Apparel	4,719	4,695	4,852	0.5	-3.2	2.4	5,126	5,311	4,995	5,063	1.2	42,692	43,761
Leather and allied products	740	746	734	-0.8	1.6	0.8	761	777	696	694	9.7	5,975	6,442
Paper products	13,163	13,185	12,651	-0.2	4.2	1.9	13,344	13,663	12,662	12,502	6.7	112,870	116,420
Pulp, paper, and paperboard mills	6,102	6,056	5,932	0.8	2.1	4.2	6,144	6,267	5,986	5,691	8.0	52,175	54,603
Paperboard containers	4,181	4,160	3,737	0.5	11.3	0.1	4,221	4,368	3,745	3,584	17.8	34,014	33,120
Printing	8,035	8,081	7,945	-0.6	1.7	1.0	8,454	8,380	7,528	8,318	1.6	70,348	73,532
Petroleum and coal products	18,665	18,500	18,483	0.9	0.1	3.0	19,831	20,130	19,511	19,131	3.7	160,671	171,978
Petroleum refineries	17,064	16,890	16,867	1.0	0.1	3.0	17,998	18,221	17,640	17,454	3.1	146,386	157,707
Basic chemicals	36,048	34,476	34,387	4.6	0.3	-5.5	36,800	34,416	33,103	35,353	4.1	314,767	331,319
Pesticides, fertilizers, and other agricultural chemicals	1,718	1,704	1,622	0.8	5.1	-20.5	1,131	1,272	1,319	1,074	5.3	16,571	16,931
Pharmaceuticals and medicines	9,499	8,058	8,173	17.9	-1.4	-17.7	10,053	7,852	7,499	10,154	-1.0	78,486	88,095
Paints, coatings, and adhesives	2,427	2,373	2,389	2.3	-0.7	0.3	2,364	2,503	2,554	2,197	7.6	21,799	21,537
Plastics and rubber products	14,758	14,920	15,059	-1.1	-0.9	1.6	14,953	15,476	14,592	14,562	2.7	134,721	132,841

^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 Sept. 02/01	Year to date	
	Sept. 2002 ^p	Aug. 2002 ^r	July 2002	Aug. - Sept.	July - Aug.	June - July	Sept. 2002 ^p	Aug. 2002 ^r	July 2002	Sept. 2001		2002 ^p	2001
All manufacturing industries ²	318,056	325,464	326,636	-2.3	-0.4	4.4	330,821	330,759	298,155	319,518	3.5	2,863,760	2,912,877
Excluding transportation ²	269,668	267,929	269,232	0.6	-0.5	1.2	281,403	271,658	258,131	273,223	3.0	2,399,074	2,475,106
Excluding defense ²	309,344	317,151	316,202	-2.5	0.3	3.5	322,160	324,211	290,622	312,735	3.0	2,792,832	2,856,292
With unfilled orders ²	116,782	123,902	124,370	-5.7	-0.4	9.5	121,246	121,916	108,972	116,750	3.9	1,072,743	1,104,430
Durable goods industries ²	168,608	177,296	179,274	-4.9	-1.1	8.5	176,375	177,743	153,946	168,002	5.0	1,543,077	1,551,718
Primary metals.....	11,333	11,412	11,205	-0.7	1.8	0.8	11,018	11,628	10,419	10,412	5.8	101,316	104,034
Iron and steel mills.....	5,433	5,491	5,265	-1.1	4.3	1.7	5,190	5,510	4,888	4,665	11.3	47,666	46,132
Aluminum and nonferrous metals.....	4,575	4,612	4,626	-0.8	-0.3	-0.4	4,537	4,716	4,423	4,461	1.7	41,749	45,226
Ferrous metal foundries.....	1,325	1,309	1,314	1.2	-0.4	1.2	1,291	1,402	1,108	1,286	0.4	11,901	12,676
Fabricated metal products.....	21,223	20,802	21,212	2.0	-1.9	2.7	21,298	21,471	21,020	20,063	6.2	189,413	190,313
Machinery.....	21,917	22,012	23,004	-0.4	-4.3	10.3	22,771	21,240	21,129	23,155	-1.7	199,007	213,377
Construction machinery.....	1,552	1,674	1,694	-7.3	-1.2	6.5	1,353	1,599	1,473	1,452	-6.8	15,304	15,757
Mining, oil field, and gas field machinery.....	749	772	646	-3.0	19.5	9.3	763	762	608	978	-22.0	6,506	7,494
Industrial machinery.....	2,858	2,955	3,847	-3.3	-23.2	42.0	2,620	2,683	3,970	2,616	0.2	27,683	28,525
Photographic equipment.....	1,454	1,485	1,433	-2.1	3.6	4.1	1,577	1,441	1,404	1,444	9.2	12,572	12,541
Ventilation, heating, air-conditioning, and refrigeration equipment.....	2,483	2,537	2,616	-2.1	-3.0	3.2	2,451	2,586	2,501	2,563	-4.4	24,036	26,076
Metalworking machinery.....	2,070	2,103	2,080	-1.6	1.1	3.6	2,440	1,979	1,786	2,212	10.3	17,983	19,230
Turbines, generators, and other power transmission equipment.....	2,132	2,353	2,419	-9.4	-2.7	11.2	2,643	2,339	1,800	3,542	-25.4	20,194	26,982
Material handling equipment.....	1,513	1,414	1,356	7.0	4.3	4.1	1,672	1,302	1,173	1,606	4.1	12,285	14,376
Computers and electronic products ²	25,145	25,295	26,359	-0.6	-4.0	3.2	29,219	22,574	21,943	27,518	6.2	227,272	244,649
Electronic computers.....	4,798	4,028	4,122	19.1	-2.3	18.6	5,247	3,613	3,510	3,414	53.7	34,363	39,812
Nondefense communications equipment.....	2,935	4,835	5,297	-39.3	-8.7	12.3	4,140	3,576	4,172	5,705	-27.4	43,365	54,868
Defense communications equipment.....	342	239	247	43.1	-3.2	-31.4	374	237	221	310	20.6	2,639	2,511
Semiconductors ³	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electronic components.....	2,957	3,726	4,089	-20.6	-8.9	-4.2	3,369	3,985	3,929	4,085	-17.5	35,900	38,657
Nondefense search and navigation equipment.....	732	710	727	3.1	-2.3	2.4	802	672	658	733	9.4	6,448	6,499
Defense search and navigation equipment.....	3,454	1,629	1,699	112.0	-4.1	-19.0	3,562	1,078	1,032	1,965	81.3	16,301	15,654
Electromedical, measuring, and control instruments.....	5,952	6,010	6,132	-1.0	-2.0	2.3	6,534	5,611	5,399	5,764	13.4	52,385	49,190
Electrical equipment, appliances, and components.....	9,216	8,896	8,637	3.6	3.0	-6.4	9,774	8,842	8,066	9,524	2.6	80,717	88,639
Electric lighting equipment.....	1,369	1,069	1,080	28.1	-1.0	2.0	1,360	1,084	927	929	46.4	9,898	9,680
Household appliances.....	2,038	1,941	2,059	5.0	-5.7	3.1	2,118	2,007	1,996	2,015	5.1	17,954	17,846
Electrical equipment.....	2,548	2,537	2,095	0.4	21.1	-26.1	2,828	2,516	1,959	3,112	-9.1	22,914	26,141
Transportation equipment.....	48,388	57,535	57,404	-15.9	0.2	22.6	49,418	59,101	40,024	46,295	6.7	464,686	437,771
Motor vehicle bodies, parts, and trailers.....	18,343	18,262	18,621	0.4	-1.9	2.0	18,610	19,372	14,032	16,327	14.0	166,411	155,857
Nondefense aircraft and parts.....	4,837	9,005	6,181	-46.3	45.7	132.1	4,430	8,895	4,943	5,583	-20.7	48,725	61,985
Defense aircraft and parts.....	2,922	3,107	6,212	-6.0	-50.0	137.1	2,942	2,280	5,077	2,408	22.2	31,229	19,160
Ships and boats.....	2,015	1,965	1,442	2.5	36.3	-7.7	2,198	1,780	761	1,509	45.7	16,444	16,671
Furniture and related products.....	5,394	5,420	5,478	-0.5	-1.1	0.7	5,633	5,595	5,376	5,601	0.6	49,960	52,217
Nondurable goods industries.....	149,448	148,168	147,362	0.9	0.5	-0.2	154,446	153,016	144,209	151,516	1.9	1,320,683	1,361,159

^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 Sept. 02/01
	Sept. 2002 ^p	Aug. 2002 ^r	July 2002	Aug. - Sept.	July - Aug.	June - July	Sept. 2002 ^p	Aug. 2002 ^r	July 2002	Sept. 2001	
All manufacturing industries ¹	485,345	490,699	488,964	-1.1	0.4	0.1	479,191	489,014	490,151	507,889	-5.7
Excluding transportation ¹	234,121	235,661	238,802	-0.7	-1.3	-0.8	231,358	235,141	240,088	255,457	-9.4
Excluding defense ¹	338,757	344,716	343,560	-1.7	0.3	-0.6	335,820	345,345	345,604	379,783	-11.6
Durable goods industries ¹	485,345	490,699	488,964	-1.1	0.4	0.1	479,191	489,014	490,151	507,889	-5.7
Primary metals.....	15,948	15,946	15,929	0.0	0.1	-0.9	15,522	15,998	16,169	17,343	-10.5
Iron and steel mills.....	9,084	9,031	8,879	0.6	1.7	0.1	8,818	9,075	9,094	8,560	3.0
Aluminum and nonferrous metals.....	4,642	4,713	4,826	-1.5	-2.3	-3.0	4,556	4,740	4,895	6,358	-28.3
Ferrous metal foundries.....	2,222	2,202	2,224	0.9	-1.0	-0.6	2,148	2,183	2,180	2,425	-11.4
Fabricated metal products.....	38,911	38,928	39,484	0.0	-1.4	-0.4	39,005	39,540	40,510	42,417	-8.0
Machinery.....	46,053	46,896	47,947	-1.8	-2.2	-0.5	45,704	46,880	47,910	55,528	-17.7
Construction machinery.....	2,064	2,161	2,155	-4.5	0.3	-1.2	1,859	2,070	2,052	2,149	-13.5
Mining, oil field, and gas field machinery.....	1,132	1,114	1,052	1.6	5.9	-7.2	1,132	1,114	1,052	1,377	-17.8
Industrial machinery.....	8,998	9,200	9,564	-2.2	-3.8	6.0	8,777	9,332	9,746	8,883	-1.2
Photographic equipment.....	923	920	931	0.3	-1.2	-2.4	917	945	956	864	6.1
Ventilation, heating, air-conditioning, and refrigeration equipment.....	4,286	4,412	4,511	-2.9	-2.2	-0.5	4,228	4,466	4,622	4,777	-11.5
Metalworking machinery.....	3,689	3,667	3,608	0.6	1.6	0.3	3,689	3,711	3,687	4,308	-14.4
Turbines, generators, and other power transmission equipment.....	11,003	11,858	12,453	-7.2	-4.8	-5.2	11,077	11,859	12,329	18,233	-39.2
Material handling equipment.....	5,140	4,962	4,901	3.6	1.2	-0.1	5,131	4,803	4,805	5,566	-7.8
Computers and electronic products ¹	109,059	110,268	111,471	-1.1	-1.1	-0.5	107,216	108,904	111,095	114,871	-6.7
Electronic computers.....	6,808	6,181	6,264	10.1	-1.3	-4.6	6,614	6,280	6,284	6,688	-1.1
Nondefense communications equipment.....	36,753	38,981	39,307	-5.7	-0.8	0.4	35,864	37,884	38,942	40,270	-10.9
Defense communications equipment.....	2,417	2,361	2,425	2.4	-2.6	-2.4	2,417	2,361	2,425	2,497	-3.2
Semiconductors ²	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electronic components.....	14,529	15,652	16,134	-7.2	-3.0	-0.9	14,676	15,805	16,110	17,232	-14.8
Nondefense search and navigation equipment.....	4,026	4,084	4,142	-1.4	-1.4	-1.5	3,981	4,084	4,197	4,729	-15.8
Defense search and navigation equipment.....	31,417	29,963	30,255	4.9	-1.0	-0.8	30,825	29,405	30,112	31,572	-2.4
Electromedical, measuring, and control instruments.....	13,109	13,046	12,944	0.5	0.8	0.5	12,839	13,085	13,025	11,883	8.0
Electrical equipment, appliances, and components.....	14,831	14,529	14,570	2.1	-0.3	-3.1	14,516	14,607	14,684	15,113	-4.0
Electric lighting equipment.....	1,767	1,449	1,437	21.9	0.8	0.3	1,732	1,544	1,519	1,453	19.2
Household appliances.....	1,043	1,056	1,123	-1.2	-6.0	-0.9	920	969	1,021	1,074	-14.3
Electrical equipment.....	8,536	8,539	8,553	0.0	-0.2	-5.6	8,403	8,545	8,601	8,960	-6.2
Transportation equipment.....	251,224	255,038	250,162	-1.5	1.9	1.0	247,833	253,873	250,063	252,432	-1.8
Motor vehicle bodies, parts, and trailers.....	12,504	12,600	12,982	-0.8	-2.9	1.6	12,059	12,362	12,975	12,195	-1.1
Nondefense aircraft and parts.....	114,520	115,970	112,643	-1.3	3.0	-0.3	114,199	116,799	113,265	133,101	-14.2
Defense aircraft and parts.....	57,743	58,004	57,860	-0.4	0.2	5.6	56,658	57,330	57,964	40,588	39.6
Ships and boats.....	21,644	21,381	21,294	1.2	0.4	-1.5	21,014	20,759	21,003	20,625	1.9
Furniture and related products.....	5,319	5,432	5,643	-2.1	-3.7	-4.1	5,395	5,550	5,962	6,473	-16.7

^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 Sept. 02/01
	Sept. 2002 ^a	Aug. 2002 ^a	July 2002	Aug. - Sept.	July - Aug.	June - July	Sept. 2002 ^a	Aug. 2002 ^a	July 2002	Sept. 2001	
All manufacturing industries ¹	428,760	428,574	427,996	0.0	0.1	-0.1	429,273	432,308	429,733	452,156	-5.1
Excluding transportation	357,906	357,395	356,637	0.1	0.2	0.2	357,652	359,654	357,613	376,198	-4.9
Excluding defense ¹	406,723	406,606	406,477	0.0	0.0	0.2	406,947	409,670	407,998	430,328	-5.4
With unfilled orders ¹	213,634	215,014	215,198	-0.6	-0.1	-0.6	213,642	217,714	216,561	232,997	-8.3
Durable goods industries ¹	263,265	264,070	264,398	-0.3	-0.1	-0.4	263,103	267,379	266,049	284,151	-7.4
Wood products	9,293	9,284	9,300	0.1	-0.2	-0.8	9,295	9,210	9,177	9,793	-5.1
Nonmetallic mineral products	8,892	8,917	8,840	-0.3	0.9	-0.4	8,762	8,892	8,854	9,311	-5.9
Primary metals	18,417	18,425	18,288	0.0	0.7	0.0	18,509	18,495	18,310	19,836	-6.7
Iron and steel mills	10,640	10,501	10,294	1.3	2.0	1.0	10,784	10,591	10,339	11,319	-4.7
Aluminum and nonferrous metals	6,087	6,207	6,262	-1.9	-0.9	-0.2	6,072	6,206	6,253	6,693	-9.3
Ferrous metal foundries	1,690	1,717	1,732	-1.6	-0.9	-4.3	1,653	1,698	1,718	1,824	-9.4
Fabricated metal products	30,793	30,755	30,574	0.1	0.6	0.3	30,682	30,829	30,822	32,801	-6.5
Machinery	44,580	44,769	44,973	-0.4	-0.5	-0.2	44,281	45,024	44,872	48,112	-8.0
Farm machinery	2,004	1,981	2,018	1.2	-1.8	1.1	1,924	1,921	1,951	1,993	-3.5
Construction machinery	3,871	3,912	3,927	-1.0	-0.4	0.7	3,775	3,819	3,846	3,820	-1.2
Mining, oil field, and gas field machinery	2,148	2,168	2,163	-0.9	0.2	-1.9	2,173	2,207	2,177	2,458	-11.6
Industrial machinery	7,665	7,753	7,840	-1.1	-1.1	0.3	7,567	7,815	7,815	8,243	-8.2
Photographic equipment	1,903	1,911	1,962	-0.4	-2.6	0.5	1,940	1,926	1,956	2,062	-5.9
Ventilation, heating, air-conditioning, and refrigeration equipment	4,058	4,084	4,081	-0.6	0.1	0.1	4,008	4,151	4,131	4,321	-7.2
Metalworking machinery	5,262	5,198	5,126	1.2	1.4	-0.5	5,353	5,407	5,254	6,069	-11.8
Turbines, generators, and other power transmission equipment	4,725	4,792	4,889	-1.4	-2.0	0.0	4,733	4,914	4,949	5,167	-8.4
Material handling equipment	2,625	2,647	2,632	-0.8	0.6	-0.8	2,565	2,608	2,561	2,776	-7.6
Computers and electronic products ¹	42,479	42,798	42,992	-0.7	-0.5	0.0	42,203	44,091	43,672	49,390	-14.6
Electronic computers	3,187	2,986	2,994	6.7	-0.3	-2.6	3,167	3,154	3,041	3,234	-2.1
Computer storage devices	1,322	1,306	1,327	1.2	-1.6	-1.2	1,205	1,342	1,335	1,465	-17.7
Other peripheral equipment	2,836	2,560	2,619	10.8	-2.3	-0.6	2,683	2,770	2,717	2,933	-8.5
Nondefense communications equipment	8,379	9,204	9,514	-9.0	-3.3	1.5	8,380	9,389	9,611	12,147	-31.0
Defense communications equipment	809	766	746	5.6	2.7	-1.2	809	766	746	826	-2.1
Audio and video equipment	1,150	1,134	1,102	1.4	2.9	3.1	1,247	1,215	1,160	1,210	3.1
Semiconductors ²	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electronic components	8,690	8,738	8,711	-0.5	0.3	-0.6	8,710	8,970	8,875	10,420	-16.4
Nondefense search and navigation equipment	3,027	2,974	2,946	1.8	1.0	-1.2	2,988	3,006	3,011	2,892	3.3
Defense search and navigation equipment	3,363	3,391	3,373	-0.8	0.5	-0.9	3,395	3,514	3,452	3,483	-2.5
Electromedical, measuring and control instruments	9,328	9,365	9,292	-0.4	0.8	0.8	9,212	9,567	9,340	10,259	-10.2
Electrical equipment, appliances, and components	12,801	12,885	13,048	-0.7	-1.2	-0.4	12,455	12,826	13,011	13,554	8.1
Electric lighting equipment	1,492	1,485	1,481	0.5	0.3	0.5	1,471	1,509	1,518	1,507	-2.4
Household appliances	2,167	2,159	2,182	0.4	-1.1	0.1	2,049	2,098	2,185	2,042	0.3
Electrical equipment	4,312	4,320	4,417	-0.2	-2.2	-2.2	4,175	4,301	4,351	4,376	-4.6
Batteries	705	726	719	-2.9	1.0	0.4	714	769	740	777	-8.1
Transportation equipment	70,854	71,179	71,359	-0.5	-0.3	-1.4	71,621	72,654	72,120	75,958	-5.7
Automobiles	1,724	1,550	1,670	11.2	-7.2	-1.4	1,777	1,682	1,856	1,825	-2.6
Light trucks and utility vehicles	1,971	1,999	2,010	-1.4	-0.5	1.9	2,081	2,134	2,136	2,080	0.0
Heavy duty trucks	1,006	965	941	4.2	2.6	8.7	1,034	975	941	948	9.1
Motor vehicle bodies, parts, and trailers	16,001	15,804	15,848	1.2	-0.3	0.4	16,144	15,873	16,101	16,326	-1.1
Nondefense aircraft and parts	28,672	29,448	29,733	-2.6	-1.0	-1.2	28,971	29,940	29,703	33,498	-13.5
Defense aircraft and parts	10,902	10,876	10,613	0.2	2.5	-2.2	10,983	11,289	10,683	10,024	9.6
Ships and boats	2,669	2,590	2,599	3.1	-0.3	1.1	2,652	2,606	2,640	2,524	5.1
Furniture and related products	7,024	7,030	7,036	-0.1	-0.1	0.2	7,017	7,088	7,165	7,651	-8.3
Miscellaneous durable goods	18,132	18,028	17,988	0.6	0.2	0.6	18,278	18,270	18,046	17,745	3.0
Nonurable goods industries	165,495	164,504	163,598	0.6	0.6	0.5	166,170	164,929	163,684	168,005	-1.1
Food products	31,951	31,940	31,791	0.0	0.5	0.3	32,420	31,996	31,230	31,867	1.7
Grain and oilseed milling	3,442	3,484	3,363	-1.2	3.6	3.1	3,276	3,286	3,217	2,926	12.0
Dairy products	3,365	3,406	3,395	1.2	0.3	-1.2	3,389	3,474	3,508	3,546	-4.4
Meat, poultry, and seafood products	6,132	6,080	6,079	0.9	0.0	0.9	6,166	6,001	6,023	5,826	5.8
Beverage and tobacco products	14,540	14,266	14,271	1.9	0.0	-1.4	14,638	13,834	13,643	14,464	1.2
Beverages	9,346	8,980	8,935	4.1	0.5	-2.3	9,486	8,782	8,718	9,191	3.2
Tobacco	5,194	5,286	5,336	-1.7	-0.9	0.2	5,152	5,052	4,925	5,273	-2.3
Textile mills	4,981	5,041	5,044	-1.2	-0.1	-0.3	4,915	5,098	5,100	5,790	-15.1
Textile products	4,573	4,547	4,523	0.6	0.5	1.0	4,568	4,571	4,580	4,530	0.8
Apparel	7,451	7,427	7,422	0.3	0.1	0.1	7,546	7,594	7,766	8,831	-14.6
Leather and allied products	1,504	1,503	1,472	0.1	2.1	3.0	1,554	1,563	1,524	1,662	-6.5
Paper products	14,373	14,288	14,325	0.6	-0.3	-1.0	14,267	14,252	14,297	14,765	-3.4
Pulp, paper, and paperboard mills	6,218	6,298	6,343	-1.3	-0.7	-1.6	6,122	6,249	6,278	6,556	-6.6
Paperboard containers	4,057	3,917	3,911	3.6	0.2	-1.7	4,082	3,925	3,932	4,236	-3.6
Printing	5,780	5,847	5,934	-1.1	-1.5	0.7	6,035	6,241	6,195	6,591	-8.4
Petroleum and coal products	13,432	13,117	13,118	2.4	0.0	2.4	13,836	13,366	13,473	13,232	4.6
Petroleum refineries	11,988	11,713	11,685	2.3	0.2	2.4	12,392	11,903	11,991	11,770	5.3
Basic chemicals	49,652	49,576	48,957	0.2	1.3	1.1	49,415	49,697	49,170	49,441	-0.1
Pesticides, fertilizers, and other agricultural chemicals	2,305	2,330	2,347	-1.1	-0.7	-0.3	2,066	2,011	2,031	2,418	-14.6
Pharmaceuticals and medicines	18,133	18,046	17,586	0.5	2.6	2.1	18,170	18,352	17,788	16,801	8.1
Paints, coatings, and adhesives	2,906	2,914	2,918	-0.3	-0.1	1.0	2,861	2,924	2,989	2,903	-1.4
Plastics and rubber products	17,258	16,952	16,741	1.8	1.3	0.9	16,976	16,717	16,706	16,832	0.9

^a 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 Sept. 02/01	Year to date	
	Sept. 2002 ^p	Aug. 2002 ^r	July 2002	Aug. - Sept.	July - Aug.	June - July	Sept. 2002 ^p	Aug. 2002 ^r	July 2002	Sept. 2001		2002 ^p	2001
SHIPMENTS													
All manufacturing industries ⁵	323,410	323,729	326,101	-0.1	-0.7	1.6	340,644	331,896	297,552	330,356	3.1	2,886,527	2,947,917
Construction materials and supplies.....	36,193	36,416	36,257	-0.6	0.4	0.7	37,732	39,056	36,317	35,579	6.1	324,475	320,237
Information technology.....	26,522	26,651	27,015	-0.5	-1.3	3.7	31,016	24,704	23,151	31,162	-0.5	234,270	261,649
Computers and related products ⁵	6,810	6,846	7,072	-0.5	-3.2	13.1	8,636	6,047	5,678	8,269	4.4	58,408	65,825
Motor vehicle and parts.....	37,629	38,821	40,213	-3.1	-3.5	8.3	38,981	41,709	26,753	34,060	14.4	341,570	317,481
Capital goods.....	63,359	63,302	64,738	0.1	-2.2	2.7	70,235	60,818	56,991	70,210	0.0	565,969	606,373
Nondefense capital goods ³	56,602	56,822	58,266	-0.4	-2.5	3.5	62,890	54,631	51,200	63,463	-0.9	508,711	554,351
Excluding aircraft.....	53,359	54,200	54,836	-1.6	-1.2	2.9	59,610	52,217	48,693	59,313	0.5	479,340	518,176
Defense capital goods ⁴	6,757	6,480	6,472	4.3	0.1	-3.6	7,345	6,187	5,791	6,747	8.9	57,258	52,022
Consumer goods.....	124,333	124,026	125,479	0.2	-1.2	2.1	129,628	128,871	113,645	126,520	2.5	1,103,850	1,118,841
Consumer durable goods.....	32,958	34,091	35,946	-3.3	-5.2	9.6	34,659	35,762	25,658	31,870	8.8	301,075	284,043
Consumer nondurable goods.....	91,375	89,935	89,533	1.6	0.4	-0.6	94,969	93,109	87,987	94,650	0.3	802,775	834,798
NEW ORDERS													
All manufacturing industries ⁵	318,056	325,464	326,636	-2.3	-0.4	4.4	330,821	330,759	298,155	319,518	3.5	2,863,760	2,912,877
Construction materials and supplies.....	36,396	36,169	36,134	0.6	0.1	1.7	37,279	38,445	36,995	34,164	9.1	325,155	318,294
Information technology.....	26,439	25,947	26,601	1.9	-2.5	4.5	30,341	22,813	22,208	27,631	9.8	229,463	248,419
Computers and related products ⁵	7,437	6,763	6,770	10.0	-0.1	13.0	8,970	6,043	5,268	7,453	20.4	58,218	65,129
Motor vehicle and parts.....	37,533	38,439	40,417	-2.4	-4.9	8.6	38,678	41,096	27,173	33,704	14.8	341,436	315,948
Capital goods.....	60,353	66,258	62,423	-8.9	6.1	9.4	65,663	61,658	53,627	63,456	3.5	543,663	577,988
Nondefense capital goods ³	52,916	59,214	56,933	-10.6	4.0	12.1	58,242	56,036	50,181	57,705	0.9	487,738	530,438
Excluding aircraft.....	50,780	53,043	53,798	-4.3	-1.4	6.7	56,069	50,073	47,969	55,168	1.6	466,787	501,395
Defense capital goods ⁴	7,437	7,044	5,490	5.6	28.3	-12.3	7,421	5,622	3,446	5,751	29.0	55,925	47,550
Consumer goods.....	124,579	123,576	125,313	0.8	-1.4	2.2	129,815	128,334	113,853	126,425	2.7	1,102,624	1,116,214
Consumer durable goods.....	33,204	33,641	35,780	-1.3	-6.0	10.1	34,846	35,225	25,866	31,775	9.7	299,849	281,416
Consumer nondurable goods.....	91,375	89,935	89,533	1.6	0.4	-0.6	94,969	93,109	87,987	94,650	0.3	802,775	834,798
UNFILLED ORDERS													
All manufacturing industries ⁵	485,345	490,699	488,964	-1.1	0.4	0.1	479,191	489,014	490,151	507,889	-5.7	(X)	(X)
Construction materials and supplies.....	32,312	32,109	32,356	0.6	-0.8	-0.4	32,423	32,876	33,487	34,305	-5.5	(X)	(X)
Information technology.....	98,938	99,021	99,725	-0.1	-0.7	-0.4	96,918	97,593	99,484	102,129	-5.1	(X)	(X)
Computers and related products ⁵	6,808	6,181	6,264	10.1	-1.3	-4.6	6,614	6,280	6,284	6,688	-1.1	(X)	(X)
Motor vehicle and parts.....	12,504	12,600	12,982	-0.8	-2.9	1.6	12,059	12,362	12,975	12,195	-1.1	(X)	(X)
Capital goods.....	337,676	340,682	337,726	-0.9	0.9	-0.7	333,132	337,704	336,864	353,946	-5.9	(X)	(X)
Nondefense capital goods ³	211,610	215,296	212,904	-1.7	1.1	-0.6	209,815	214,463	213,058	242,391	-13.4	(X)	(X)
Excluding aircraft.....	126,149	128,728	129,885	-2.0	-0.9	-0.8	124,354	127,895	130,039	140,794	-11.7	(X)	(X)
Defense capital goods ⁴	126,066	125,386	124,822	0.5	0.5	-0.8	123,317	123,241	123,806	111,555	10.5	(X)	(X)
Consumer goods.....	120,51	11,805	12,255	2.1	-3.7	-1.3	11,931	11,744	12,281	13,238	-9.9	(X)	(X)
Consumer durable goods.....	12,051	11,805	12,255	2.1	-3.7	-1.3	11,931	11,744	12,281	13,238	-9.9	(X)	(X)
TOTAL INVENTORIES													
All manufacturing industries ⁵	428,760	428,574	427,996	0.0	0.1	-0.1	429,273	432,308	429,733	452,156	-5.1	(X)	(X)
Construction materials and supplies.....	45,066	45,114	44,873	-0.1	0.5	-0.1	44,818	45,231	45,135	47,459	-5.6	(X)	(X)
Information technology.....	39,817	40,166	40,492	-0.9	-0.8	0.2	39,479	41,196	40,970	45,884	-14.0	(X)	(X)
Computers and related products ⁵	7,345	6,852	6,940	7.2	-1.3	-1.6	7,055	7,266	7,093	7,632	-7.6	(X)	(X)
Motor vehicle and parts.....	20,702	20,318	20,469	1.9	-0.7	0.8	21,036	20,664	21,034	21,179	-0.7	(X)	(X)
Capital goods.....	131,567	132,586	133,070	-0.8	-0.4	-1.1	131,204	134,766	133,622	145,950	-10.1	(X)	(X)
Nondefense capital goods ³	113,053	114,020	115,028	-0.8	-0.9	-0.5	112,533	115,672	115,420	126,967	-11.4	(X)	(X)
Excluding aircraft.....	90,714	91,118	91,892	-0.4	-0.8	-0.1	89,844	92,345	92,298	99,954	-10.1	(X)	(X)
Defense capital goods ⁴	18,514	18,566	18,042	-0.3	2.9	-4.5	18,671	19,094	18,202	18,983	-1.6	(X)	(X)
Consumer goods.....	127,771	126,794	126,278	0.8	0.4	0.6	128,979	127,622	126,447	128,204	0.6	(X)	(X)
Consumer durable goods.....	26,688	26,397	26,494	1.1	-0.4	0.9	26,860	26,860	26,923	26,997	-0.5	(X)	(X)
Consumer nondurable goods.....	101,083	100,397	99,784	0.7	0.6	0.6	102,119	100,762	99,524	101,207	0.9	(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 Sept. 02/01
	Sept. 2002 ^p	Aug. 2002 ^r	July 2002	Aug. - Sept.	July - Aug.	June - July	Sept. 2002 ^p	Aug. 2002 ^r	July 2002	Sept. 2001	
MATERIALS AND SUPPLIES											
All manufacturing industries ¹	139,890	140,201	140,530	-0.2	-0.2	-0.2	140,028	141,017	141,175	150,363	-6.9
Durable goods industries ¹	84,404	84,910	85,068	-0.6	-0.2	-0.6	84,703	85,913	85,684	92,673	-8.6
Wood products.....	3,546	3,549	3,598	-0.1	-1.4	-1.2	3,658	3,511	3,424	3,837	-4.7
Nonmetallic mineral products.....	3,246	3,253	3,266	-0.2	-0.4	-0.9	3,278	3,291	3,269	3,465	-5.4
Primary metals.....	6,143	6,073	6,029	1.2	0.7	0.4	6,259	6,144	6,052	6,582	-4.9
Fabricated metal products.....	10,718	10,696	10,547	0.2	1.4	0.9	10,725	10,812	10,695	10,917	-1.8
Machinery.....	14,774	15,017	15,166	-1.6	-1.0	-1.0	14,741	15,157	15,269	16,632	-11.4
Computers and electronic products ¹	15,376	15,543	15,636	-1.1	-0.6	-1.1	15,411	15,947	15,870	19,495	-20.9
Electrical equipment, appliances, and components.....	4,496	4,549	4,639	-1.2	-1.9	-0.3	4,458	4,558	4,641	5,157	-13.6
Transportation equipment.....	16,726	16,775	16,702	-0.3	0.4	-2.1	16,831	16,955	16,931	17,301	-2.7
Furniture and related products.....	3,006	3,070	3,099	-2.1	-0.9	-0.1	2,966	3,060	3,120	3,260	-9.0
Miscellaneous products.....	6,373	6,385	6,386	-0.2	0.0	2.0	6,376	6,478	6,413	6,027	5.8
Nondurable goods industries.....	55,486	55,291	55,462	0.4	-0.3	0.6	55,325	55,104	55,491	57,690	-4.1
Food products.....	10,107	10,250	10,275	-1.4	-0.2	1.0	9,925	10,156	10,170	10,312	-3.8
Beverage and tobacco products.....	5,916	5,815	5,851	1.7	-0.6	0.5	5,823	5,691	5,680	5,815	0.1
Textiles.....	1,462	1,420	1,412	3.0	0.6	-1.5	1,461	1,434	1,429	1,650	-11.5
Textile products.....	1,533	1,527	1,515	0.4	0.8	1.8	1,552	1,555	1,553	1,600	-3.0
Apparel.....	1,671	1,683	1,702	-0.7	-1.1	-0.4	1,656	1,663	1,717	2,010	-17.6
Leather and allied products.....	332	332	327	0.0	1.5	3.2	338	342	343	432	-21.8
Paper products.....	6,911	6,856	6,875	0.8	-0.3	-0.5	6,907	6,816	6,851	7,274	-5.0
Printing.....	2,389	2,373	2,449	0.7	-3.1	0.4	2,505	2,445	2,492	2,709	-7.5
Petroleum and coal products.....	3,080	3,078	3,140	0.1	-2.0	0.2	3,085	3,088	3,204	3,388	-8.9
Basic chemicals.....	15,262	15,233	15,234	0.2	0.0	1.2	15,263	15,200	15,280	15,648	-2.5
Plastics and rubber products.....	6,823	6,724	6,682	1.5	0.6	0.4	6,810	6,714	6,772	6,852	-0.6
WORK IN PROCESS											
All manufacturing industries ¹	127,572	127,988	127,620	-0.3	0.3	-0.2	128,541	129,537	127,909	137,627	-6.6
Durable goods industries ¹	97,925	98,531	98,872	-0.6	-0.3	-0.9	98,423	100,046	99,230	108,945	-9.7
Wood products.....	2,082	2,039	2,033	2.1	0.3	-1.9	2,079	2,050	2,022	1,958	6.2
Nonmetallic mineral products.....	1,138	1,138	1,152	0.0	-1.2	0.1	1,106	1,135	1,164	1,208	-8.4
Primary metals.....	6,220	6,308	6,258	-1.4	0.8	1.2	6,250	6,326	6,277	6,877	-9.1
Fabricated metal products.....	9,845	9,797	9,792	0.5	0.1	0.2	9,938	9,913	9,943	10,738	-7.5
Machinery.....	14,187	14,256	14,281	-0.5	-0.2	-0.8	14,167	14,509	14,377	15,488	-8.5
Computers and electronic products ¹	17,500	17,404	17,520	0.6	-0.7	0.1	17,481	17,797	17,759	19,188	-8.9
Electrical equipment, appliances, and components.....	2,814	2,864	2,909	-1.7	-1.5	-2.0	2,781	2,901	2,946	3,240	-14.8
Transportation equipment.....	39,714	40,317	40,524	-1.5	-0.5	-1.7	40,169	40,941	40,302	45,441	-11.6
Furniture and related products.....	1,457	1,438	1,477	1.3	-2.6	-0.2	1,437	1,433	1,487	1,538	-6.6
Miscellaneous products.....	2,968	2,970	2,926	-0.1	1.5	-3.2	3,035	3,041	2,953	3,269	-7.2
Nondurable goods industries.....	29,647	29,457	28,748	0.6	2.5	2.1	30,118	29,491	28,679	28,682	5.0
Food products.....	2,658	2,620	2,631	1.5	-0.4	3.0	2,660	2,392	2,413	2,592	2.6
Beverage and tobacco products.....	4,010	3,884	3,775	3.2	2.9	-1.1	4,144	3,601	3,456	3,989	3.9
Textiles.....	1,125	1,202	1,194	-6.4	0.7	-0.9	1,120	1,198	1,204	1,434	-21.9
Textile products.....	773	791	790	-2.3	0.1	-0.6	779	795	793	838	-7.0
Apparel.....	1,332	1,473	1,462	-9.6	0.8	1.2	1,305	1,478	1,508	1,518	-14.0
Leather and allied products.....	156	157	163	-0.6	-3.7	-1.2	160	159	167	212	-24.5
Paper products.....	1,339	1,325	1,309	1.1	1.2	2.0	1,346	1,351	1,300	1,288	4.5
Printing.....	1,799	1,865	1,888	-3.5	-1.2	1.3	1,902	2,093	2,063	2,142	-11.2
Petroleum and coal products.....	3,987	3,950	3,856	0.9	2.4	2.4	4,118	4,062	3,911	3,513	17.2
Basic chemicals.....	10,175	9,921	9,433	2.6	5.2	3.9	10,320	10,116	9,640	8,863	16.4
Plastics and rubber products.....	2,293	2,269	2,247	1.1	1.0	2.4	2,264	2,246	2,224	2,293	-1.3
FINISHED GOODS											
All manufacturing industries ¹	161,298	160,385	159,846	0.6	0.3	0.2	160,704	161,754	160,649	164,166	-2.1
Durable goods industries ¹	80,936	80,629	80,458	0.4	0.2	0.4	79,977	81,420	81,135	82,533	-3.1
Wood products.....	3,665	3,696	3,669	-0.8	0.7	0.1	3,558	3,649	3,731	3,998	-11.0
Nonmetallic mineral products.....	4,508	4,526	4,422	-0.4	2.4	-0.1	4,378	4,466	4,421	4,638	-5.6
Primary metals.....	6,054	6,044	6,001	0.2	0.7	-1.6	6,000	6,025	5,981	6,377	-5.9
Fabricated metal products.....	10,230	10,262	10,235	-0.3	0.3	-0.3	10,019	10,104	10,184	11,146	-10.1
Machinery.....	15,619	15,496	15,526	0.8	-0.2	1.2	15,373	15,358	15,226	15,992	-3.9
Computers and electronic products ¹	9,603	9,851	9,836	-2.5	0.2	1.6	9,311	10,347	10,043	10,707	-13.0
Electrical equipment, appliances, and components.....	5,491	5,472	5,500	0.3	-0.5	0.3	5,236	5,367	5,424	5,157	1.5
Transportation equipment.....	14,414	14,087	14,133	2.3	-0.3	0.1	14,621	14,758	14,887	13,216	10.6
Furniture and related products.....	2,561	2,522	2,460	1.5	2.5	0.7	2,614	2,595	2,558	2,853	-8.4
Miscellaneous products.....	8,791	8,673	8,676	1.4	0.0	1.0	8,867	8,751	8,680	8,449	4.9
Nondurable goods industries.....	80,362	79,756	79,388	0.8	0.5	-0.1	80,727	80,334	79,514	81,633	-1.1
Food products.....	19,186	19,070	18,885	0.6	1.0	-0.4	19,835	19,448	18,647	18,963	4.6
Beverage and tobacco products.....	4,614	4,567	4,645	1.0	-1.7	-3.9	4,671	4,542	4,507	4,660	0.2
Textiles.....	2,394	2,419	2,438	-1.0	-0.8	0.7	2,334	2,466	2,467	2,706	-13.7
Textile products.....	2,267	2,229	2,218	1.7	0.5	1.0	2,237	2,221	2,234	2,092	6.9
Apparel.....	4,448	4,271	4,258	4.1	0.3	0.0	4,585	4,453	4,541	5,303	-13.5
Leather and allied products.....	1,016	1,014	982	0.2	3.3	3.7	1,056	1,062	1,014	1,018	3.7
Paper products.....	6,123	6,107	6,141	0.3	-0.6	-2.2	6,014	6,085	6,146	6,203	-3.0
Printing.....	1,592	1,609	1,597	-1.1	0.8	0.6	1,628	1,703	1,640	1,740	-6.4
Petroleum and coal products.....	6,365	6,089	6,122	4.5	-0.5	3.6	6,633	6,216	6,358	6,331	4.8
Basic chemicals.....	24,215	24,422	24,290	-0.8	0.5	-0.1	23,832	24,381	24,250	24,930	-4.4
Plastics and rubber products.....	8,142	7,959	7,812	2.3	1.9	0.9	7,902	7,757	7,710	7,687	2.8

Preliminary ¹ Revised ² 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			
	Sep 2002 ^p	Aug 2002 ^r	Jul 2002	Jun 2002	Sep 2002 ^p	Aug 2002 ^r	Jul 2002	Jun 2002
All manufacturing industries ²	1.33	1.32	1.31	1.33	(X)	(X)	(X)	(X)
Durable goods industries ²	1.51	1.50	1.48	1.53	3.97	4.02	3.95	4.02
Wood products.....	1.30	1.28	1.26	1.28	(X)	(X)	(X)	(X)
Nonmetallic mineral products.....	1.04	1.04	1.05	1.06	(X)	(X)	(X)	(X)
Primary metals.....	1.63	1.62	1.61	1.63	1.41	1.40	1.40	1.43
Fabricated metal products.....	1.45	1.44	1.43	1.45	1.92	1.91	1.94	1.98
Machinery.....	1.96	1.94	1.93	1.96	2.22	2.23	2.26	2.31
Computers and electronic products ²	1.61	1.62	1.60	1.65	4.87	4.93	4.87	5.05
Electrical equipment, appliances, and components.....	1.44	1.44	1.43	1.45	1.76	1.71	1.69	1.77
Transportation equipment.....	1.36	1.35	1.30	1.41	7.61	7.85	7.54	7.61
Furniture and related products.....	1.28	1.25	1.23	1.25	1.09	1.09	1.11	1.18
Miscellaneous products.....	1.82	1.77	1.75	1.79	(X)	(X)	(X)	(X)
Nondurable goods industries.....	1.11	1.11	1.11	1.10	(X)	(X)	(X)	(X)
Food products.....	0.84	0.84	0.85	0.86	(X)	(X)	(X)	(X)
Beverage and tobacco products.....	1.63	1.57	1.57	1.59	(X)	(X)	(X)	(X)
Textiles.....	1.45	1.43	1.34	1.44	(X)	(X)	(X)	(X)
Textile products.....	1.48	1.48	1.48	1.44	(X)	(X)	(X)	(X)
Apparel.....	1.58	1.58	1.53	1.56	(X)	(X)	(X)	(X)
Leather and allied products.....	2.03	2.01	2.01	1.96	(X)	(X)	(X)	(X)
Paper products.....	1.09	1.08	1.13	1.17	(X)	(X)	(X)	(X)
Printing.....	0.72	0.72	0.75	0.75	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.72	0.71	0.71	0.71	(X)	(X)	(X)	(X)
Basic chemicals.....	1.38	1.44	1.42	1.33	(X)	(X)	(X)	(X)
Plastics and rubber products.....	1.17	1.14	1.11	1.12	(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		
	Sep ¹ 2002	Sep ² 1997-2001	Sep 2001-Aug 2002	Sep ¹ 2002	Sep ² 1997-2001	Sep 2001-Aug 2002	Sep ¹ 2002	Sep ² 1997-2001	Sep 2001-Aug 2002	Sep ¹ 2002	Sep ² 1997-2001	Sep 2001-Aug 2002
All manufacturing industries ³	(X)	(NA)	0.2	(X)	(NA)	0.4	(X)	(NA)	0.2	(X)	(NA)	0.1
Durable goods industries ³	0.2	(NA)	0.3	1.0	(NA)	0.6	0.2	(NA)	0.2	-0.1	(NA)	0.2
Wood products.....	(X)	(NA)	0.8	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.5
Nonmetallic mineral products.....	(X)	(NA)	1.2	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.5
Primary metals.....	0.0	(NA)	0.4	0.0	(NA)	0.8	0.0	(NA)	0.4	0.0	(NA)	0.1
Fabricated metal products.....	-0.1	(NA)	0.3	-0.1	(NA)	0.9	0.0	(NA)	0.4	-0.1	(NA)	0.3
Machinery.....	0.2	(NA)	0.6	0.8	(NA)	1.3	0.2	(NA)	0.4	-0.1	(NA)	0.3
Computers and electronic products ³	0.1	(NA)	0.6	5.4	(NA)	1.1	0.8	(NA)	0.3	-0.4	(NA)	0.3
Electrical equipment, appliances, and components.....	0.6	(NA)	0.3	0.6	(NA)	1.1	0.0	(NA)	0.6	-0.1	(NA)	0.2
Transportation equipment.....	0.3	(NA)	0.6	0.2	(NA)	1.2	0.0	(NA)	0.2	-0.1	(NA)	0.3
Furniture and related products.....	(X)	(NA)	0.3	(X)	(NA)	0.8	(X)	(NA)	0.5	(X)	(NA)	0.3
Miscellaneous products.....	(X)	(NA)	0.5	(X)	(NA)	1.2	(X)	(NA)	2.4	(X)	(NA)	0.4
Nondurable goods industries.....	(X)	(NA)	0.5	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.2
Food products.....	(X)	(NA)	0.7	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.3
Beverage and tobacco products.....	(X)	(NA)	1.1	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.2
Textiles.....	(X)	(NA)	1.0	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.6
Textile products.....	(X)	(NA)	0.9	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.3
Apparel.....	(X)	(NA)	0.7	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.4
Leather and allied products.....	(X)	(NA)	4.8	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	1.0
Paper products.....	(X)	(NA)	1.1	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.3
Printing.....	(X)	(NA)	0.4	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.3
Petroleum and coal products.....	(X)	(NA)	1.3	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.7
Basic chemicals.....	(X)	(NA)	0.8	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.3
Plastics and rubber products.....	(X)	(NA)	0.3	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.3

X Not Applicable

NA Not Available

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

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

³ See footnote at end of Table 7

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

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