

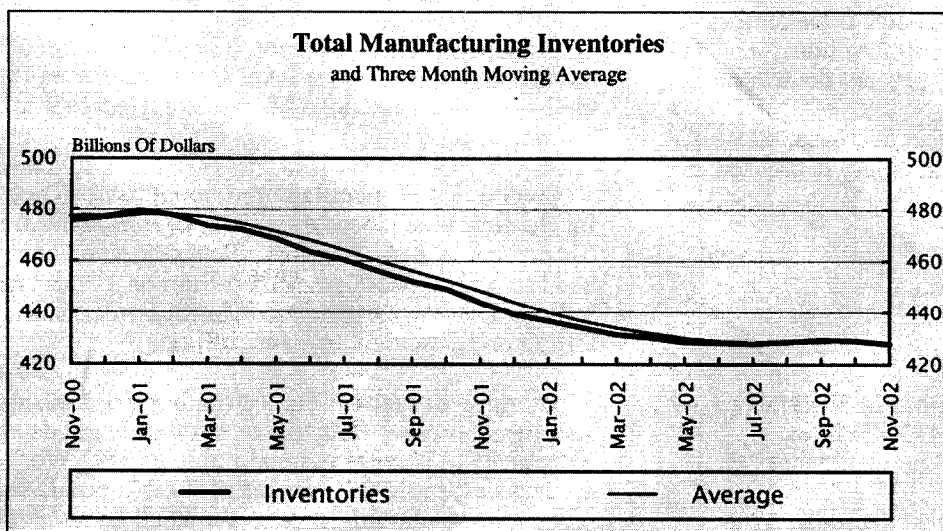
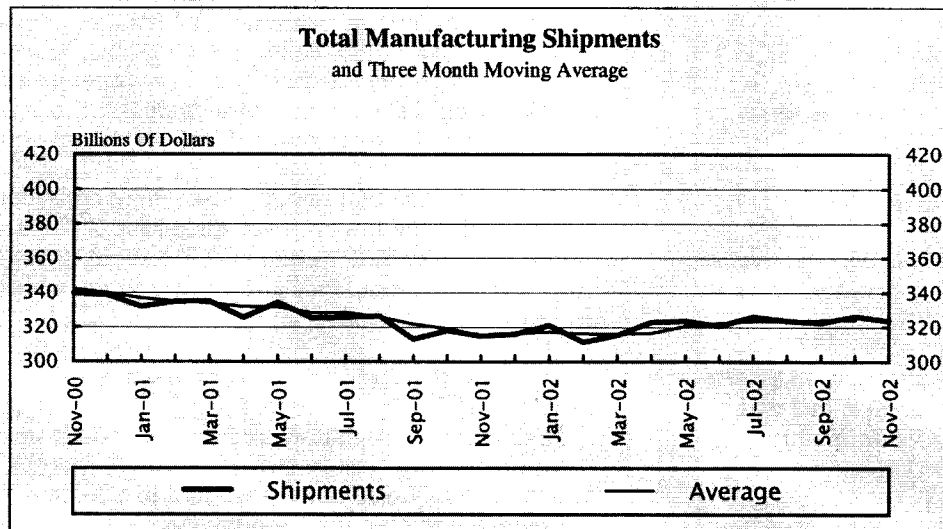
Manufacturers' Shipments, Inventories, and Orders

November
2002

M3-1(02)-11

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Current Industrial Reports



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 December is scheduled for January 28, 2003 at 8:30 a.m. and the full report on February 4, 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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All figures in text are in seasonally adjusted current dollars and **exclude data for semiconductor manufacturing**.

Summary

New orders for manufactured goods in November decreased \$2.7 billion or 0.8 percent to \$319.3 billion, the Department of Commerce, Census Bureau reported today. This followed a 1.4 percent October increase. Year to date, new orders for 2002 were 1.1 percent below the same period year ago.

Shipments decreased \$2.6 billion or 0.8 percent to \$323.7 billion, following a 1.2 percent October increase. Year to date, shipments for 2002 were 1.3 percent below the same period a year ago.

Unfilled orders, down three consecutive months, decreased \$4.5 billion or 0.9 percent to \$476.9 billion, following a 0.9 percent October decrease; this was the lowest level since September 1996. The unfilled orders-to-shipments ratio was 3.92, unchanged from October.

Inventories decreased \$1.3 billion or 0.3 percent to \$427.8 billion, following a 0.1 percent October decrease; this was the lowest level since March 1997. The inventories-to-shipments ratio was 1.32, up from 1.31 in October.

New Orders

New orders for manufactured durable goods in November decreased \$2.6 billion or 1.5 percent to \$169.3 billion, revised from the previously published 1.4 percent decrease.

Transportation equipment had the largest decrease, \$0.9 billion or 1.9 percent to \$49.2 billion. Machinery decreased \$0.7 billion or 3.1 percent to \$21.8 billion.

New orders for manufactured nondurable goods decreased \$0.2 billion or 0.1 percent to \$149.9 billion.

Shipments

Shipments of manufactured durable goods in November decreased \$2.4 billion or 1.4 percent to \$173.8 billion, revised from the previously published 1.3 percent decrease.

Transportation equipment had the largest decrease, \$2.2 billion or 4.0 percent to \$51.5 billion, led by light trucks and utility vehicles, which decreased by \$1.1 billion.

Shipments of manufactured nondurable goods decreased \$0.2 billion or 0.1 percent to \$149.9 billion. Petroleum and coal products had the largest decrease, \$0.5 billion or 2.3 percent to \$18.9 billion, due to petroleum refineries, which decreased \$0.5 billion.

Unfilled Orders

Unfilled orders for manufactured durable goods in November, down three consecutive months, decreased \$4.5 billion or 0.9 percent to \$476.9 billion, unrevised from the previously published 0.9 percent decrease; this was the lowest level since September 1996.

Transportation equipment, down three consecutive months and at the lowest level since May 2000, had the largest decrease, \$2.3 billion or 0.9 percent to \$246.1 billion, led by nondefense aircraft and parts, which decreased \$1.7 billion.

Inventories

Inventories of manufactured durable goods in November, down twenty-two consecutive months, decreased \$0.7 billion or 0.3 percent to \$262.4 billion, revised from the previously published 0.2 percent decrease. This was the lowest level since November 1995.

Transportation equipment, down five consecutive months and at the lowest level since December 1997, had the largest decrease, \$0.8 billion or 1.1 percent to \$70.1 billion.

Inventories of manufactured nondurable goods, down for the first time since May 2002, decreased \$0.6 billion or 0.4 percent to \$165.4 billion. Petroleum and coal products had the largest decrease, \$0.3 billion or 2.0 percent to \$13.0 billion. Beverage and tobacco products decreased \$0.2 billion or 1.3 percent to \$14.2 billion.

By stage of fabrication, November materials and supplies decreased 0.8 percent in durable goods and increased 0.2 percent in nondurable goods. Work in process decreased 0.1 percent in durable goods and 1.6 percent in nondurable goods. Finished goods increased 0.1 percent in durable goods and decreased 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				Percent Change	Year to date	
	Nov. 2002 ^a	Oct. 2002 ^a	Sept. 2002	Oct. - Nov.	Sept. - Oct.	Aug. - Sept.	Nov. 2002 ^a	Oct. 2002 ^a	Sept. 2002	Nov. 2001	Nov. 02/01	2002 ^b	2001
All manufacturing industries ²	323,730	326,339	322,608	-0.8	1.2	-0.3	319,911	338,008	339,591	312,298	2.4	3,543,393	3,587,725
Excluding transportation ²	272,205	272,645	270,137	-0.2	0.9	-0.3	268,503	280,575	284,253	260,583	3.0	2,964,188	3,038,546
Excluding defense ²	315,386	318,569	314,572	-1.0	1.3	-0.5	311,168	330,400	330,667	305,023	2.0	3,458,822	3,514,388
With unfilled orders ²	121,605	122,706	122,234	-0.9	0.4	0.1	119,423	124,790	131,026	118,629	0.7	1,339,680	1,380,141
Durable goods industries ²	173,797	176,241	174,008	-1.4	1.3	-0.9	170,672	181,900	185,954	168,174	1.5	1,918,172	1,929,748
Wood products	7,460	7,329	7,158	1.8	2.4	-1.5	7,005	7,648	7,489	6,860	2.1	81,776	81,909
Nonmetallic mineral products	8,440	8,417	8,492	0.3	-0.9	-1.1	8,113	9,188	8,927	7,282	11.4	91,767	84,742
Primary metals	11,215	11,381	11,345	-1.5	0.3	-0.4	10,680	11,987	11,498	10,526	1.5	124,568	127,126
Iron and steel mills	5,290	5,342	5,377	-1.0	-0.7	0.7	4,920	5,635	5,455	4,594	7.1	57,316	56,360
Aluminum and nonferrous metals	4,646	4,730	4,657	-1.8	1.6	-1.4	4,525	4,959	4,709	4,601	-1.7	52,447	55,316
Ferrous metal foundries	1,279	1,309	1,311	-2.3	-0.2	-1.5	1,235	1,393	1,334	1,331	-7.2	14,805	15,450
Fabricated metal products	21,068	21,330	21,325	-1.2	0.0	-0.2	20,492	22,538	22,018	20,520	-0.1	233,432	234,704
Machinery	22,696	22,769	22,783	-0.3	-0.1	-1.2	21,415	22,663	23,916	21,026	1.9	250,764	261,701
Farm machinery	1,572	1,583	1,542	-0.7	2.7	-1.1	1,174	1,394	1,566	1,079	8.8	16,659	14,572
Construction machinery	1,711	1,753	1,663	-2.4	5.4	-0.3	1,467	1,630	1,565	1,407	4.3	18,686	19,311
Mining, oil field, and gas field machinery	703	695	720	1.2	-3.5	1.4	671	672	745	776	-13.5	7,916	8,732
Industrial machinery	3,343	3,200	3,118	4.5	2.6	-6.1	3,028	3,146	3,242	2,598	16.6	33,706	37,047
Photographic equipment	1,447	1,461	1,468	-1.0	-0.5	-1.9	1,479	1,563	1,618	1,236	19.7	15,526	15,381
Ventilation, heating, air-conditioning, and refrigeration equipment	2,541	2,447	2,572	3.8	-4.9	-2.4	2,370	2,385	2,687	2,547	-6.9	28,918	31,373
Metalworking machinery	2,294	2,114	2,060	8.5	2.6	0.8	2,586	2,320	2,440	2,248	15.0	23,027	24,857
Turbines, generators, and other power transmission equipment	2,331	2,776	3,021	-16.0	-8.1	2.5	2,217	2,785	3,434	2,787	-20.5	32,353	31,788
Material handling equipment	1,382	1,382	1,349	0.0	2.4	-0.3	1,269	1,404	1,356	1,320	-3.9	15,203	17,327
Computers and electronic products ³	26,235	26,356	26,093	-0.5	1.0	-1.5	26,234	25,019	30,666	26,125	0.4	285,019	310,846
Electronic computers	4,125	4,380	4,194	-5.8	4.4	2.0	3,799	4,512	4,913	3,679	3.3	42,864	48,057
Computer storage devices	1,220	1,092	1,219	11.7	-10.4	4.0	1,114	791	1,743	1,013	10.0	12,727	12,048
Other peripheral equipment	1,562	1,633	1,333	-4.3	22.5	-14.7	1,588	1,361	1,820	1,524	4.2	15,822	17,890
Nondefense communications equipment	5,170	4,837	5,077	6.9	-4.7	-1.6	5,319	4,234	6,160	5,554	-4.2	56,742	74,021
Defense communications equipment	343	328	287	4.6	14.3	-5.3	328	306	318	289	13.5	3,421	3,252
Audio and video equipment	765	704	682	8.7	3.2	-2.4	952	805	761	967	-1.6	7,974	7,910
Semiconductors ³	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electronic components	4,135	4,166	4,048	-0.7	2.9	-3.8	4,309	4,209	4,435	4,404	-2.2	45,995	51,429
Nondefense search and navigation equipment	713	810	792	-12.0	2.3	3.1	714	762	905	753	-5.2	8,368	8,725
Defense search and navigation equipment	2,050	2,050	2,001	0.0	2.4	4.2	2,097	2,020	2,134	1,895	10.7	21,265	20,248
Electromedical, measuring, and control instruments	5,522	5,730	5,815	-3.6	-1.5	-1.6	5,279	5,302	6,770	5,165	2.2	62,590	59,465
Electrical equipment, appliances, and components	9,072	9,014	8,896	0.6	1.3	-0.5	8,918	8,893	9,834	8,790	1.5	98,857	109,298
Electric lighting equipment	1,067	1,094	1,045	-2.5	4.7	-1.1	1,089	1,073	1,158	1,033	5.4	11,700	11,797
Household appliances	2,122	2,100	2,061	1.0	1.9	2.6	2,082	2,046	2,167	1,959	6.3	22,441	21,971
Electrical equipment	2,665	2,616	2,554	1.9	2.4	0.1	2,512	2,455	2,968	2,522	-0.4	28,413	31,473
Batteries	498	484	478	2.9	1.3	4.8	629	540	577	696	-9.6	5,624	6,436
Transportation equipment	51,525	53,694	52,471	-4.0	2.3	-0.4	51,408	57,433	55,338	51,715	-0.6	579,205	549,179
Automobiles	7,718	8,003	7,665	-3.6	4.4	-6.8	7,724	9,252	8,066	7,728	-0.1	89,570	83,624
Light trucks and utility vehicles	9,780	10,892	10,373	-10.2	5.0	-2.7	9,659	12,366	10,742	10,034	-3.7	113,953	103,384
Heavy duty trucks	961	1,317	1,274	-27.0	3.4	-1.8	896	1,539	1,260	889	0.8	12,938	12,182
Motor vehicle bodies, parts, and trailers	18,507	19,095	18,645	-3.1	2.4	0.0	18,026	20,781	18,900	17,571	2.6	205,339	193,381
Nondefense aircraft and parts	5,947	6,331	6,305	-6.1	0.4	11.0	6,114	5,556	7,017	8,087	-24.4	69,526	81,407
Defense aircraft and parts	3,219	2,914	3,129	10.5	-6.9	5.6	3,512	2,797	3,618	2,764	27.1	32,167	24,884
Ships and boats	2,168	1,984	1,808	9.3	9.7	-3.7	2,185	2,065	1,943	1,601	36.5	20,252	17,794
Furniture and related products	5,494	5,533	5,492	-0.7	0.7	-2.5	5,479	5,774	5,764	5,500	-0.4	61,802	63,943
Miscellaneous durable goods	10,592	10,418	9,953	1.7	4.7	-2.1	10,928	10,757	10,504	9,830	11.2	110,982	106,300
Nondurable goods industries	149,933	150,098	148,600	-0.1	1.0	0.3	149,239	156,108	153,637	144,124	3.5	1,625,221	1,657,977
Food products	37,891	37,774	37,222	0.3	1.5	-1.7	39,310	39,690	38,403	39,215	0.2	413,529	415,024
Grain and oilseed milling	4,056	4,088	4,013	-0.8	1.9	-0.2	4,181	4,331	3,920	4,250	-1.6	44,758	43,653
Dairy products	5,059	5,165	4,989	-2.1	3.5	0.8	5,236	5,096	5,125	5,761	-9.1	56,908	61,331
Meat, poultry, and seafood products	10,804	10,763	10,656	0.4	1.0	-1.8	11,162	10,910	10,505	11,650	-4.2	121,214	123,296
Beverage and tobacco products	8,970	8,912	8,920	0.7	-0.1	-2.0	8,796	8,912	9,034	9,170	-4.1	100,812	107,535
Beverages	5,742	5,760	5,710	-0.3	0.9	-0.7	5,568	5,760	5,824	5,538	0.5	63,175	61,243
Tobacco	3,228	3,152	3,210	2.4	-1.8	-4.2	3,228	3,152	3,210	3,632	-11.1	37,637	46,292
Textile mills	3,576	3,523	3,463	1.5	1.7	-2.0	3,471	3,632	3,795	3,354	3.5	39,409	41,729
Textile products	3,131	3,111	3,086	0.6	0.8	0.8	2,985	3,146	3,211	2,796	6.8	34,097	31,905
Apparel	4,867	4,597	4,683	5.9	-1.8	-0.3	4,909	5,179	5,089	4,635	5.9	52,743	53,759
Leather and allied products	725	720	754	0.7	-4.5	1.1	789	780	793	709	11.3	7,576	7,896
Paper products	12,707	12,989	12,975	-2.2	0.1	-1.6	12,523	13,478	13,194	12,185	2.8	138,721	141,702
Pulp, paper, and paperboard mills	5,653	5,941	5,949	-4.8	0.1	-1.8	5,548	6,150	6,006	5,623	-1.3	63,735	66,415
Paperboard containers	3,735	3,790	3,821	-1.5	-0.8	-8.1	3,601	4,038	3,858	3,463	4.0	41,290	40,373
Printing	8,030	8,125	8,067	-1.2	0.7	-0.2	8,524	8,862	8,443	8,437	1.0	87,723	90,685
Petroleum and coal products	18,938	19,388	18,753	-2.3	3.4	1.4	19,055	20,409	19,831	15,846	20.3	200,135	205,478
Petroleum refineries	17,385	17,856	17,170	-2.6	4.0	1.7	17,615	18,670	17,998	14,526	21.3	182,671	188,261
Basic chemicals	35,980	35,861	35,822	0.3	0.1	3.9	34,519	36,183	36,795	34,006	1.5	385,464	400,476
Pesticides, fertilizers, and other agricultural chemicals	1,634	1,610	1,692	1.5	-4.8	-0.7	1,146	1,079	1,135	1,195	-4.1	18,800	19,271
Pharmaceuticals and medicines	8,722	8,881	9,140	-1.8	-2.8	13.4	8,748	9,399	10,040	9,876	-11.4	96,620	107,819
Paints, coatings, and adhesives	2,391	2,440	2,432	-2.0	0.3	2.5	2,153	2,408	2,364	2,182	-1.3	26,360	25,978
Plastics and rubber products	15,118	15,098	14,855	0.1	1.6	-0.4	14,358	15,837	15,049	13,771	4.3	165,012	161,788

^a Preliminary^f 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 Nov. 02/01	Year to date	
	Nov. 2002 ^p	Oct. 2002 ^f	Sept. 2002	Oct. - Nov.	Sept. - Oct.	Aug. - Sept.	Nov. 2002 ^p	Oct. 2002 ^f	Sept. 2002	Nov. 2001		2002 ^p	2001
All manufacturing industries ²	319,269	321,993	317,660	-0.8	1.4	-2.4	314,767	332,064	329,938	305,445	3.1	3,509,708	3,547,081
Excluding transportation ²	270,027	271,817	268,355	-0.7	1.3	0.2	266,286	279,060	280,098	259,043	2.8	2,943,115	3,004,916
Excluding defense ²	312,361	316,465	308,822	-1.3	2.5	-2.6	307,734	327,173	321,268	299,278	2.8	3,426,847	3,466,731
With unfilled orders ²	117,144	118,360	117,286	-1.0	0.9	-5.3	114,279	118,846	121,373	111,776	2.2	1,305,995	1,339,497
Durable goods industries ²	169,336	171,895	169,060	-1.5	1.7	-4.6	165,528	175,956	176,301	161,321	2.6	1,884,487	1,889,104
Primary metals.....	10,692	11,210	11,343	-4.6	-1.2	-0.6	9,984	11,463	11,009	10,133	-1.5	122,754	124,633
Iron and steel mills.....	4,929	5,206	5,417	-5.3	-3.9	-1.3	4,427	5,185	5,195	4,399	0.6	57,283	54,982
Aluminum and nonferrous metals.....	4,473	4,680	4,593	-4.4	1.9	-0.4	4,331	4,851	4,519	4,465	-3.0	50,913	54,286
Ferrous metal foundries.....	1,290	1,324	1,333	-2.6	-0.7	1.8	1,226	1,427	1,295	1,269	-3.4	14,558	15,365
Fabricated metal products.....	20,867	21,449	21,086	-2.7	1.7	1.4	20,063	22,140	21,198	19,661	2.0	231,516	230,914
Machinery.....	21,823	22,519	21,988	-3.1	2.4	-0.1	20,597	22,441	22,733	20,930	-1.6	242,007	255,843
Construction machinery.....	1,653	1,784	1,557	-7.3	14.6	-7.0	1,487	1,692	1,327	1,422	4.6	18,457	18,641
Mining, oil field, and gas field machinery.....	684	713	738	-4.1	-3.4	-4.4	652	690	763	758	-14.0	7,848	8,996
Industrial machinery.....	3,047	3,273	2,950	-6.9	10.9	-0.2	2,749	3,528	2,684	2,738	0.4	34,024	34,380
Photographic equipment.....	1,457	1,491	1,468	-2.3	1.6	-1.1	1,499	1,597	1,590	1,250	19.9	15,681	15,282
Ventilation, heating, air-conditioning, and refrigeration equipment.....	2,498	2,602	2,428	-4.0	7.2	-4.3	2,308	2,420	2,443	2,488	-7.2	28,756	31,045
Metalworking machinery.....	2,331	2,208	2,102	5.6	5.0	0.0	2,615	2,408	2,416	2,125	23.1	22,982	23,637
Turbines, generators, and other power transmission equipment.....	1,841	2,043	2,130	-9.9	-4.1	-9.5	1,769	2,043	2,621	2,803	-36.9	23,984	31,881
Material handling equipment.....	1,356	1,352	1,530	0.3	-11.6	8.2	1,205	1,327	1,671	1,287	6.4	14,816	16,980
Computers and electronic products ²	25,581	25,521	24,856	0.2	2.7	-1.7	25,903	24,185	28,983	25,584	1.2	277,124	294,425
Electronic computers.....	4,118	4,413	4,832	-6.7	-8.7	20.0	4,183	4,565	5,247	4,059	3.1	43,111	47,917
Nondefense communications equipment.....	5,085	4,875	2,792	4.3	74.6	-42.3	5,493	4,304	4,140	5,371	2.3	53,162	65,518
Defense communications equipment.....	258	427	343	-39.6	24.5	43.5	243	405	374	232	4.7	3,287	2,969
Semiconductors ²	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electronic components.....	3,899	4,177	2,918	-6.7	43.1	21.7	3,788	4,195	3,311	3,899	-2.8	43,825	46,490
Nondefense search and navigation equipment.....	722	920	715	-21.5	28.7	0.7	727	845	802	642	13.2	8,020	7,712
Defense search and navigation equipment.....	1,888	746	3,446	153.1	-78.4	111.5	1,934	512	3,550	1,614	19.8	18,735	18,569
Electromedical, measuring, and control instruments.....	5,434	5,908	5,931	-8.0	-0.4	-1.3	5,146	5,685	6,528	5,381	-4.4	63,210	59,601
Electrical equipment, appliances, and components.....	8,890	8,957	9,122	-0.7	-1.8	2.5	8,716	8,986	9,673	9,111	-4.3	98,318	106,773
Electric lighting equipment.....	1,067	1,073	1,279	-0.6	-16.1	19.6	1,037	1,048	1,271	974	6.5	11,894	11,739
Household appliances.....	1,960	2,134	2,055	-8.2	3.8	5.9	2,031	2,094	2,118	2,213	-8.2	22,079	21,938
Electrical equipment.....	2,578	2,466	2,534	4.5	-2.7	-0.1	2,413	2,433	2,826	2,758	-12.5	27,758	31,500
Transportation equipment.....	49,242	50,176	49,305	-1.9	1.8	-14.3	48,481	53,004	49,840	46,402	4.5	566,593	542,165
Motor vehicle bodies, parts, and trailers.....	18,676	18,848	18,405	-0.9	2.4	0.8	18,344	20,299	18,484	17,615	4.1	204,928	191,453
Nondefense aircraft and parts.....	4,280	4,641	4,721	-7.8	-1.7	-47.6	3,927	3,461	4,304	3,808	3.1	55,987	67,932
Defense aircraft and parts.....	2,847	2,625	2,855	8.5	-8.1	-8.1	2,739	1,746	2,942	2,212	23.8	35,714	34,628
Ships and boats.....	1,762	1,805	2,140	-2.4	-15.7	8.9	1,756	2,262	2,198	1,406	24.9	20,462	19,683
Furniture and related products.....	5,506	5,498	5,419	0.1	1.5	0.0	5,495	5,743	5,607	5,535	-0.7	61,172	63,383
Nondurable goods industries.....	149,933	150,098	148,600	-0.1	1.0	0.3	149,239	156,108	153,637	144,124	3.5	1,625,221	1,657,977

Preliminary ^f Revised NA Not available.

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.

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 Nov. 02/01
	Nov. 2002 ^p	Oct. 2002 ^r	Sept. 2002	Oct. - Nov.	Sept. - Oct.	Aug. - Sept.	Nov. 2002 ^p	Oct. 2002 ^r	Sept. 2002	Nov. 2001	
All manufacturing industries ¹	476,944	481,405	485,751	-0.9	-0.9	-1.0	468,273	473,417	479,361	502,285	-6.8
Excluding transportation ¹	230,873	233,051	233,879	-0.9	-0.4	-0.8	227,254	229,471	230,986	249,430	-8.9
Excluding defense ¹	333,837	336,862	338,966	-0.9	-0.6	-1.7	329,285	332,719	335,946	364,430	-9.6
Durable goods industries ¹	476,944	481,405	485,751	-0.9	-0.9	-1.0	468,273	473,417	479,361	502,285	-6.8
Primary metals	15,250	15,773	15,944	-3.3	-1.1	0.0	14,289	14,985	15,509	15,854	-9.9
Iron and steel mills	8,574	8,935	9,071	-4.0	-1.5	0.4	7,872	8,365	8,815	7,641	3.0
Aluminum and nonferrous metals	4,426	4,599	4,649	-3.8	-1.1	-1.4	4,248	4,442	4,550	5,864	-27.6
Ferrous metal foundries	2,250	2,239	2,224	0.5	0.7	1.0	2,169	2,178	2,144	2,349	-7.7
Fabricated metal products	38,607	38,808	38,689	-0.5	0.3	-0.6	37,893	38,322	38,720	40,386	-6.2
Machinery	44,978	45,851	46,101	-1.9	-0.5	-1.7	44,657	45,475	45,697	54,108	-17.5
Construction machinery	2,028	2,086	2,055	-2.8	1.5	-4.9	1,914	1,894	1,832	2,084	-8.2
Mining, oil field, and gas field machinery	1,131	1,150	1,132	-1.7	1.6	1.6	1,131	1,150	1,132	1,303	-13.2
Industrial machinery	8,809	9,105	9,032	-3.3	0.8	-1.8	8,877	9,156	8,774	9,182	-3.3
Photographic equipment	960	950	920	1.1	3.3	0.0	971	951	917	882	10.1
Ventilation, heating, air-conditioning, and refrigeration equipment	4,380	4,423	4,268	-1.0	3.6	-3.3	4,195	4,257	4,222	4,528	-7.4
Metalworking machinery	3,840	3,803	3,709	1.0	2.5	1.1	3,804	3,775	3,687	4,092	-7.0
Turbines, generators, and other power transmission equipment	9,744	10,234	10,967	-4.8	-6.7	-7.5	9,856	10,304	11,046	17,405	-43.4
Material handling equipment	5,087	5,113	5,143	-0.5	-0.6	3.6	4,977	5,041	5,118	5,383	-7.5
Computers and electronic products ¹	107,542	108,196	109,031	-0.6	-0.8	-1.1	106,056	106,387	107,221	113,517	-6.6
Electronic computers	6,845	6,852	6,819	-0.1	0.5	10.3	7,051	6,667	6,614	7,244	-2.7
Nondefense communications equipment	36,649	36,734	36,696	-0.2	0.1	-5.9	36,108	35,934	35,864	39,857	-9.4
Defense communications equipment	2,431	2,516	2,417	-3.4	4.1	2.4	2,431	2,516	2,417	2,388	1.8
Semiconductors ²	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electronic components	14,297	14,533	14,522	-1.6	0.1	-7.2	14,146	14,667	14,681	16,474	-14.1
Nondefense search and navigation equipment	4,126	4,117	4,007	0.2	2.7	-1.9	4,077	4,064	3,981	4,500	-9.4
Defense search and navigation equipment	29,942	30,104	31,408	-0.5	-4.2	4.8	29,150	29,313	30,821	30,796	-5.3
Electromedical, measuring, and control instruments	13,252	13,340	13,162	-0.7	1.4	0.9	13,093	13,226	12,843	12,258	6.8
Electrical equipment, appliances, and components	14,516	14,698	14,755	-1.2	-0.4	1.6	14,337	14,539	14,446	15,224	-5.8
Electric lighting equipment	1,662	1,662	1,683	0.0	-1.2	16.1	1,580	1,632	1,657	1,385	14.1
Household appliances	922	1,084	1,050	-14.9	3.2	-0.6	917	968	920	1,212	-24.3
Electrical equipment	8,282	8,369	8,519	-1.0	-1.8	-0.2	8,282	8,381	8,403	9,235	-10.3
Transportation equipment	246,071	248,354	251,872	-0.9	-1.4	-1.2	241,019	243,946	248,375	252,855	-4.7
Motor vehicle bodies, parts, and trailers	12,282	12,113	12,360	1.4	-2.0	-1.9	11,782	11,464	11,946	11,800	-0.2
Nondefense aircraft and parts	111,029	112,696	114,386	-1.5	-1.5	-1.4	109,804	111,991	114,086	124,526	-11.8
Defense aircraft and parts	57,069	57,441	57,730	-0.6	-0.5	-0.5	54,830	55,603	56,654	51,114	7.3
Ships and boats	21,128	21,534	21,713	-1.9	-0.8	1.6	20,782	21,211	21,014	20,321	2.3
Furniture and related products	5,336	5,324	5,359	0.2	-0.7	-1.3	5,378	5,362	5,393	6,307	-14.7

^p Preliminary ^r Revised NA Not available.

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.

¹ 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 Nov. 02/01
	Nov. 2002 ^p	Oct. 2002 ^r	Sept. 2002	Oct. - Nov.	Sept. - Oct.	Aug. - Sept.	Nov. 2002 ^p	Oct. 2002 ^r	Sept. 2002	Nov. 2001	
All manufacturing industries ¹	427,792	429,074	429,385	-0.3	-0.1	0.2	430,442	433,471	429,952	446,732	-3.6
Excluding transportation ¹	357,647	358,176	358,410	-0.1	-0.1	0.3	358,867	360,903	358,197	371,119	-3.3
Excluding defense ¹	405,960	407,134	407,323	-0.3	0.0	0.2	408,384	411,279	407,596	424,847	-3.9
With unfilled orders ¹	213,264	213,786	213,925	-0.2	-0.1	-0.5	215,040	215,580	213,930	230,891	-6.9
Durable goods industries ¹	262,364	263,040	263,516	-0.3	-0.2	-0.2	264,338	265,068	263,389	281,301	-6.0
Wood products.....	9,326	9,299	9,314	0.3	-0.2	0.3	9,443	9,428	9,353	9,624	-1.9
Nonmetallic mineral products.....	8,915	8,932	8,896	-0.2	0.4	-0.2	8,709	8,683	8,751	9,045	-3.7
Primary metals.....	18,650	18,476	18,407	0.9	0.4	-0.1	18,831	18,592	18,484	19,458	-3.2
Iron and steel mills.....	10,900	10,733	10,632	1.6	0.9	1.2	11,069	10,869	10,779	10,933	1.2
Aluminum and nonferrous metals.....	6,036	6,035	6,079	0.0	-0.7	-2.1	6,049	6,039	6,063	6,886	-9.5
Ferrous metal foundries.....	1,714	1,708	1,696	0.4	0.7	-1.2	1,713	1,684	1,652	1,839	-6.9
Fabricated metal products.....	30,849	30,870	30,839	-0.1	0.1	0.3	30,552	30,660	30,735	32,004	-4.5
Machinery.....	44,314	44,472	44,631	-0.4	-0.4	-0.3	44,719	44,686	44,358	48,025	-6.9
Farm machinery.....	2,085	2,042	2,012	2.1	1.5	1.6	2,063	1,913	1,924	1,995	3.4
Construction machinery.....	3,815	3,854	3,875	-1.0	-0.5	-0.9	3,826	3,825	3,778	3,973	-3.7
Mining, oil field, and gas field machinery.....	2,212	2,194	2,156	0.8	1.8	-0.6	2,209	2,203	2,173	2,387	-7.5
Industrial machinery.....	7,588	7,607	7,680	-0.2	-1.0	-0.9	7,710	7,580	7,592	8,353	-7.7
Photographic equipment.....	1,911	1,926	1,910	-0.8	0.8	-0.1	1,950	1,988	1,945	2,063	-5.5
Ventilation, heating, air-conditioning, and refrigeration equipment.....	4,223	4,168	4,096	1.3	1.8	0.3	4,199	4,159	4,010	4,228	-0.7
Metalworking machinery.....	5,242	5,270	5,257	-0.5	0.2	1.1	5,182	5,379	5,361	5,678	-8.7
Turbines, generators, and other power transmission equipment.....	4,572	4,662	4,728	-1.9	-1.4	-1.3	4,761	4,814	4,757	5,321	-10.5
Material handling equipment.....	2,539	2,565	2,614	-1.0	-1.9	-1.2	2,530	2,524	2,563	2,734	-7.5
Computers and electronic products ¹	42,563	42,430	42,511	0.3	-0.2	-0.7	42,990	42,610	42,160	48,981	-12.2
Electronic computers.....	3,154	3,048	3,214	3.5	-5.2	7.6	3,254	2,963	3,167	3,263	-0.3
Computer storage devices.....	1,237	1,260	1,258	-1.8	0.2	-3.7	1,300	1,242	1,133	1,693	-23.2
Other peripheral equipment.....	2,625	2,705	2,831	-3.0	-4.5	10.6	2,714	2,756	2,683	3,065	-11.5
Nondefense communications equipment.....	8,410	8,322	8,363	1.1	-0.5	-9.1	8,559	8,350	8,380	12,253	-30.1
Defense communications equipment.....	817	769	809	6.2	-4.9	5.6	817	769	809	771	6.0
Audio and video equipment.....	1,196	1,196	1,161	0.0	3.0	2.4	1,258	1,356	1,247	1,152	9.2
Semiconductors ²	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electronic components.....	9,117	8,990	8,755	1.4	2.7	0.2	8,977	8,953	8,733	9,556	-6.1
Nondefense search and navigation equipment.....	3,083	3,122	3,028	-1.2	3.1	1.8	3,093	3,113	2,988	3,006	2.9
Defense search and navigation equipment.....	3,247	3,335	3,359	-2.6	-0.7	-0.9	3,249	3,359	3,390	3,485	-6.8
Electromedical, measuring and control instruments.....	9,279	9,296	9,346	-0.2	-0.5	-0.2	9,372	9,350	9,223	10,289	-8.9
Electrical equipment, appliances, and components.....	12,529	12,577	12,749	-0.4	-1.3	-1.1	12,479	12,551	12,435	13,668	-8.7
Electric lighting equipment.....	1,472	1,473	1,489	-0.1	-1.1	0.3	1,476	1,480	1,473	1,525	-3.2
Household appliances.....	2,091	2,122	2,159	-1.5	-1.7	0.0	2,079	2,108	2,049	2,173	-4.3
Electrical equipment.....	4,186	4,214	4,291	-0.7	-1.8	-0.7	4,248	4,245	4,165	4,625	-8.2
Batteries.....	665	677	698	-1.8	-3.0	-3.9	650	698	711	756	-14.0
Transportation equipment.....	70,145	70,898	70,975	-1.1	-0.1	-0.3	71,575	72,568	71,755	75,613	-5.3
Automobiles.....	1,789	1,762	1,734	1.5	1.6	11.9	1,753	1,740	1,777	1,619	8.3
Light trucks and utility vehicles.....	1,960	1,973	1,971	-0.7	0.1	-1.4	1,998	2,058	2,081	1,933	3.4
Heavy duty trucks.....	891	911	1,007	-2.2	-9.5	4.4	907	934	1,034	908	-0.1
Motor vehicle bodies, parts, and trailers.....	15,850	16,027	16,010	-1.1	0.1	1.3	16,040	16,291	16,140	15,985	0.3
Nondefense aircraft and parts.....	28,344	28,741	28,721	-1.4	0.1	-2.5	29,331	29,771	29,043	33,673	-12.9
Defense aircraft and parts.....	10,663	10,810	10,915	-1.4	-1.0	0.4	10,861	10,980	10,990	10,183	6.7
Ships and boats.....	2,662	2,628	2,664	1.3	-1.4	2.9	2,692	2,655	2,652	2,511	7.2
Furniture and related products.....	7,049	6,988	7,022	0.9	-0.5	-0.1	7,014	6,979	7,029	7,377	-4.9
Miscellaneous durable goods.....	18,024	18,098	18,172	-0.4	-0.4	0.8	18,026	18,311	18,319	17,506	3.0
Nondurable goods industries.....	165,428	166,034	165,869	-0.4	0.1	0.8	166,104	168,403	166,563	165,431	0.4
Food products.....	31,982	32,121	32,096	-0.4	0.1	0.5	33,238	34,199	32,525	32,603	1.9
Grain and oilseed milling.....	3,498	3,461	3,447	1.1	0.4	-1.1	3,680	3,679	3,275	3,238	13.7
Dairy products.....	3,412	3,350	3,365	1.9	-0.4	-1.2	3,259	3,345	3,393	3,297	-1.2
Meat, poultry, and seafood products.....	6,240	6,269	6,145	-0.5	2.0	1.1	6,342	6,444	6,165	6,009	5.5
Beverage and tobacco products.....	14,175	14,359	14,562	-1.3	-1.4	2.1	14,449	14,771	14,636	14,503	-0.4
Beverages.....	9,110	9,250	9,372	-1.5	-1.3	4.4	9,228	9,517	9,484	9,058	1.9
Tobacco.....	5,065	5,109	5,190	-0.9	-1.6	-1.8	5,221	5,254	5,152	5,445	-4.1
Textile mills.....	4,845	4,925	4,972	-1.6	-0.9	-1.4	4,802	4,895	4,906	5,620	-14.6
Textile products.....	4,515	4,537	4,568	-0.5	-0.7	0.5	4,413	4,504	4,573	4,376	0.8
Apparel.....	7,441	7,475	7,515	-0.5	-0.5	1.2	7,141	7,366	7,581	7,994	-10.7
Leather and allied products.....	1,581	1,581	1,511	0.0	4.6	0.5	1,563	1,596	1,553	1,565	-0.1
Paper products.....	14,535	14,503	14,416	0.2	0.6	0.9	14,446	14,326	14,307	14,818	-2.5
Pulp, paper, and paperboard mills.....	6,219	6,175	6,206	0.7	-0.5	-1.5	6,154	6,007	6,108	6,614	-7.0
Paperboard containers.....	4,177	4,164	4,073	0.3	2.2	4.0	4,156	4,174	4,090	4,142	-0.3
Printing.....	6,006	5,977	5,796	0.5	3.1	-0.9	6,014	6,200	6,034	6,138	-2.0
Petroleum and coal products.....	13,013	13,273	13,352	-2.0	-0.6	1.8	12,893	13,596	13,835	11,796	9.3
Petroleum refineries.....	11,580	11,823	11,905	-2.1	-0.7	1.6	11,503	12,171	12,391	10,384	10.8
Basic chemicals.....	49,779	49,738	49,604	0.1	0.3	0.1	49,796	49,633	49,407	49,348	0.9
Pesticides, fertilizers, and other agricultural chemicals.....	2,447	2,507	2,304	-2.4	8.8	-1.1	2,413	2,317	2,066	2,564	-5.9
Pharmaceuticals and medicines.....	17,884	17,894	18,057	-0.1	-0.9	0.1	18,057	18,150	18,138	16,783	7.6
Paints, coatings, and adhesives.....	2,952	2,935	2,912	0.6	0.8	-0.1	2,861	2,906	2,861	2,826	1.2
Plastics and rubber products.....	17,556	17,545	17,477	0.1	0.4	3.1	17,349	17,317	17,206	16,670	4.1

^p Preliminary^r Revised

NA Not available.

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

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

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

[Millions of Dollars]

Industry	Seasonally Adjusted						Not Seasonally Adjusted ²						
	Monthly			Percent Change			Monthly				Percent	Year to date	
	Nov. 2002 ^p	Oct. 2002 ^r	Sept. 2002	Oct. - Nov.	Sept. - Oct.	Aug. - Sept.	Nov. 2002 ^p	Oct. 2002 ^r	Sept. 2002	Nov. 2001	Change Nov. 02/01	2002 ^p	2001
SHIPMENTS													
All manufacturing industries ⁵	323,730	326,339	322,608	-0.8	1.2	-0.3	319,911	338,008	339,591	312,298	2.4	3,543,393	3,587,725
Construction materials and supplies.....	36,106	36,144	36,206	-0.1	-0.2	-0.6	34,489	38,252	37,808	33,340	3.4	397,292	390,416
Information technology.....	26,267	26,371	26,271	-0.4	0.4	-1.4	26,010	25,152	30,813	25,537	1.9	285,229	312,419
Computers and related products.....	6,907	7,105	6,746	-2.8	5.3	-1.5	6,501	6,664	8,476	6,216	4.6	71,413	77,995
Motor vehicle and parts.....	36,966	39,307	37,957	6.0	3.6	-2.2	36,305	43,938	38,968	36,222	0.2	421,800	392,571
Capital goods.....	63,086	63,667	63,089	-0.9	0.9	-0.3	61,682	61,709	69,948	61,124	0.9	689,073	728,985
Nondefense capital goods ³	56,090	57,057	56,393	-1.7	1.2	-0.8	54,311	55,290	62,642	54,833	-1.0	618,064	664,683
Excluding aircraft.....	53,311	53,890	53,137	-1.1	1.4	-2.0	51,454	52,711	59,362	50,261	2.4	583,257	620,711
Defense capital goods ⁴	6,996	6,610	6,696	5.8	-1.3	3.3	7,371	6,419	7,306	6,291	17.2	71,009	64,302
Consumer goods.....	124,279	125,881	123,772	-1.3	1.7	-0.2	125,934	133,304	129,084	122,788	2.6	1,362,544	1,370,941
Consumer durable goods.....	33,166	34,361	33,156	-3.5	3.6	-2.7	33,409	37,610	34,680	32,750	2.0	372,115	351,350
Consumer nondurable goods.....	91,113	91,520	90,616	-0.4	1.0	0.8	92,525	95,694	94,404	90,038	2.8	990,429	1,019,591
NEW ORDERS													
All manufacturing industries ⁵	319,269	321,993	317,660	-0.8	1.4	-2.4	314,767	332,064	329,938	305,445	3.1	3,509,708	3,547,081
Construction materials and supplies.....	36,097	36,442	36,341	-0.9	0.3	0.5	34,167	38,004	37,239	32,587	4.8	397,286	386,550
Information technology.....	25,926	25,635	26,182	1.1	-2.1	0.9	26,220	24,458	30,143	25,405	3.2	279,943	298,377
Computers and related products.....	6,900	7,138	7,384	-3.3	-3.3	9.2	6,885	6,717	8,810	6,596	4.4	71,660	77,855
Motor vehicle and parts.....	37,135	39,060	37,717	-4.9	3.6	-1.9	36,623	43,456	38,552	36,266	1.0	421,389	390,643
Capital goods.....	58,665	59,476	60,452	-1.4	-1.6	-8.8	57,844	58,032	65,546	57,476	0.6	659,422	701,997
Nondefense capital goods ³	53,217	55,213	52,901	-3.6	4.4	-10.7	51,986	53,884	58,116	51,891	0.2	593,482	631,734
Excluding aircraft.....	52,125	53,517	50,752	-2.6	5.4	-4.3	50,816	52,776	55,943	50,427	0.8	570,253	601,934
Defense capital goods ⁴	5,448	4,263	7,551	27.8	-43.5	7.2	5,858	4,148	7,430	5,585	4.9	65,940	70,263
Consumer goods.....	124,247	126,030	124,025	-1.4	1.6	0.4	126,089	133,417	129,280	123,110	2.4	1,361,595	1,368,176
Consumer durable goods.....	33,134	34,510	33,409	-4.0	3.3	-0.7	33,564	37,723	34,876	33,072	1.5	371,166	348,585
Consumer nondurable goods.....	91,113	91,520	90,616	-0.4	1.0	0.8	92,525	95,694	94,404	90,038	2.8	990,429	1,019,591
UNFILLED ORDERS													
All manufacturing industries ⁵	476,944	481,405	485,751	-0.9	-0.9	-1.0	468,273	473,417	479,361	502,285	-6.8	(X)	(X)
Construction materials and supplies.....	32,533	32,542	32,244	0.0	0.9	0.4	31,737	32,059	32,307	32,382	-2.0	(X)	(X)
Information technology.....	97,855	98,196	98,932	-0.3	-0.7	-0.1	96,439	96,229	96,923	101,317	-4.8	(X)	(X)
Computers and related products.....	6,845	6,852	6,819	-0.1	0.5	10.3	7,051	6,667	6,614	7,244	-2.7	(X)	(X)
Motor vehicle and parts.....	12,282	12,113	12,360	1.4	-2.0	-1.9	11,782	11,464	11,946	11,800	-0.2	(X)	(X)
Capital goods.....	329,433	333,854	338,045	-1.3	-1.2	-0.8	325,787	329,625	333,302	355,343	-8.3	(X)	(X)
Nondefense capital goods ³	207,087	209,960	211,804	-1.4	-0.9	-1.6	206,206	208,531	209,937	233,355	-11.6	(X)	(X)
Excluding aircraft.....	124,784	125,970	126,343	-0.9	-0.3	-1.9	123,903	124,541	124,476	138,798	-10.7	(X)	(X)
Defense capital goods ⁴	122,346	123,894	126,241	-1.2	-1.9	0.7	119,581	121,094	123,365	121,988	-2.0	(X)	(X)
Consumer goods.....	12,175	12,207	12,058	-0.3	1.2	2.1	12,208	12,053	11,940	13,100	-6.8	(X)	(X)
Consumer durable goods.....	12,175	12,207	12,058	-0.3	1.2	2.1	12,208	12,053	11,940	13,100	-6.8	(X)	(X)
TOTAL INVENTORIES													
All manufacturing industries ⁵	427,792	429,074	429,385	-0.3	-0.1	0.2	430,442	433,471	429,952	446,732	-3.6	(X)	(X)
Construction materials and supplies.....	45,683	45,533	45,262	0.3	0.6	0.3	45,309	45,256	44,996	46,323	-2.2	(X)	(X)
Information technology.....	39,472	39,457	39,778	0.0	-0.8	-1.0	39,989	39,665	39,409	46,077	-13.2	(X)	(X)
Computers and related products.....	7,016	7,013	7,303	0.0	-4.0	6.6	7,268	6,961	6,983	8,021	-9.4	(X)	(X)
Motor vehicle and parts.....	20,490	20,673	20,722	-0.9	-0.2	2.0	20,698	21,023	21,032	20,445	1.2	(X)	(X)
Capital goods.....	129,990	130,466	131,496	-0.4	-0.8	-0.8	131,950	131,866	131,205	146,431	-9.9	(X)	(X)
Nondefense capital goods ³	111,581	112,027	112,967	-0.4	-0.8	-0.9	113,525	113,356	112,511	127,508	-11.0	(X)	(X)
Excluding aircraft.....	89,685	89,916	90,643	-0.3	-0.8	-0.5	90,660	90,277	89,822	100,415	-9.7	(X)	(X)
Defense capital goods ⁴	18,409	18,439	18,529	-0.2	-0.5	-0.2	18,425	18,510	18,694	18,923	-2.6	(X)	(X)
Consumer goods.....	126,771	127,478	127,930	-0.6	-0.4	0.9	127,937	130,606	129,180	125,885	1.6	(X)	(X)
Consumer durable goods.....	26,608	26,702	26,740	-0.4	-0.1	1.3	26,611	27,027	26,920	26,255	1.4	(X)	(X)
Consumer nondurable goods.....	100,163	100,776	101,190	-0.6	-0.4	0.8	101,326	103,579	102,260	99,630	1.7	(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
	Nov. 2002 ^p	Oct. 2002 ^r	Sept. 2002	Oct. - Nov.	Sept. - Oct.	Aug. - Sept.	Nov. 2002 ^p	Oct. 2002 ^r	Sept. 2002	Nov. 2001	Nov. 02/01
MATERIALS AND SUPPLIES											
All manufacturing industries ¹	139,398	139,949	140,156	-0.4	-0.1	0.0	139,956	140,600	140,209	148,626	-5.8
Durable goods industries ¹	83,625	84,307	84,496	-0.8	-0.2	-0.5	84,371	84,861	84,739	91,671	-8.0
Wood products	3,446	3,491	3,531	-1.3	-1.1	-0.5	3,770	3,752	3,642	4,008	-5.9
Nonmetallic mineral products	3,221	3,258	3,244	-1.1	0.4	-0.3	3,237	3,286	3,271	3,450	-6.2
Primary metals	6,194	6,205	6,152	-0.2	0.9	1.3	6,401	6,396	6,263	6,570	-2.6
Fabricated metal products	10,784	10,839	10,797	-0.5	0.4	0.9	10,600	10,715	10,818	10,584	0.2
Machinery	14,619	14,806	14,817	-1.3	-0.1	-1.3	14,632	14,852	14,762	16,624	-12.0
Computers and electronic products ¹	15,530	15,509	15,385	0.1	0.8	-1.0	15,543	15,343	15,368	18,707	-16.9
Electrical equipment, appliances, and components	4,434	4,434	4,486	0.0	-1.2	-1.4	4,471	4,455	4,452	5,094	-12.2
Transportation equipment	16,285	16,541	16,703	-1.5	-1.0	-0.4	16,652	16,843	16,805	17,388	-4.2
Furniture and related products	2,946	2,929	3,007	0.6	-2.6	-2.1	2,911	2,896	2,975	3,199	9.0
Miscellaneous products	6,166	6,295	6,374	-2.0	-1.2	-0.2	6,154	6,323	6,383	6,047	1.8
Nondurable goods industries	55,773	55,642	55,660	0.2	0.0	0.7	55,585	55,739	55,470	56,955	-2.4
Food products	9,954	9,959	10,114	-0.1	-1.5	-1.3	10,087	10,202	9,914	10,430	-3.3
Beverage and tobacco products	6,064	6,010	5,928	0.9	1.4	1.9	5,903	5,874	5,821	5,680	3.9
Textiles	1,425	1,421	1,455	0.3	-2.3	2.5	1,417	1,419	1,457	1,569	-9.7
Textile products	1,515	1,531	1,538	-1.0	-0.5	0.7	1,480	1,522	1,559	1,501	-1.4
Apparel	1,727	1,706	1,694	1.2	0.7	0.7	1,684	1,690	1,667	1,860	-9.5
Leather and allied products	373	363	337	2.8	7.7	1.5	364	361	340	367	-0.8
Paper products	7,036	7,096	6,997	-0.8	1.4	2.1	7,026	7,070	6,984	7,223	-2.7
Printing	2,515	2,466	2,408	2.0	2.4	1.5	2,539	2,551	2,505	2,654	-4.3
Petroleum and coal products	3,180	3,087	3,077	3.0	0.3	0.0	3,127	3,131	3,084	3,143	-0.5
Basic chemicals	15,128	15,078	15,229	0.3	-1.0	0.0	15,148	15,037	15,257	15,802	-4.1
Plastics and rubber products	6,856	6,925	6,883	-1.0	0.6	2.4	6,810	6,882	6,882	6,726	1.2
WORK IN PROCESS											
All manufacturing industries ¹	126,341	126,851	127,404	-0.4	-0.4	-0.5	128,501	129,591	128,536	135,854	-5.4
Durable goods industries ¹	97,401	97,452	97,978	-0.1	-0.5	-0.6	98,956	98,997	98,596	107,955	-8.3
Wood products	2,085	2,061	2,077	1.2	-0.8	1.9	2,075	2,078	2,079	1,920	8.1
Nonmetallic mineral products	1,162	1,147	1,140	1.3	0.6	0.2	1,102	1,098	1,106	1,146	-3.8
Primary metals	6,240	6,199	6,210	0.7	-0.2	-1.6	6,263	6,224	6,242	6,653	-5.9
Fabricated metal products	9,786	9,759	9,796	0.3	-0.4	0.0	9,829	9,803	9,872	10,558	-6.9
Machinery	13,979	13,906	14,144	0.5	-1.7	-0.8	14,281	14,172	14,202	15,523	-8.0
Computers and electronic products ¹	17,660	17,367	17,547	1.7	-1.0	0.8	17,905	17,454	17,553	19,175	-6.6
Electrical equipment, appliances, and components	2,752	2,758	2,802	-0.2	-1.6	-2.2	2,717	2,757	2,753	3,148	-13.7
Transportation equipment	39,273	39,774	39,825	-1.3	-0.1	-1.2	40,297	40,880	40,310	45,137	-10.7
Furniture and related products	1,449	1,455	1,456	-0.4	-0.1	1.3	1,432	1,438	1,440	1,495	-4.2
Miscellaneous products	3,015	3,026	2,981	-0.4	1.5	0.4	3,055	3,093	3,039	3,200	-4.5
Nondurable goods industries	28,940	29,399	29,426	-1.6	-0.1	-0.1	29,545	30,594	29,940	27,899	5.9
Food products	2,517	2,625	2,625	-10.5	7.1	0.2	2,837	3,327	2,603	2,994	-5.2
Beverage and tobacco products	3,924	3,971	3,998	-1.2	-0.7	2.9	4,217	4,321	4,143	4,091	3.1
Textiles	1,103	1,120	1,123	-1.5	-0.3	-6.6	1,099	1,117	1,115	1,374	-20.0
Textile products	779	779	772	0.0	0.9	2.4	778	778	779	827	-5.9
Apparel	1,337	1,327	1,335	0.8	-0.6	-9.4	1,327	1,290	1,303	1,499	-11.5
Leather and allied products	142	152	148	-6.6	2.7	-5.7	139	151	152	186	-25.3
Paper products	1,197	1,195	1,216	0.2	-1.7	-8.2	1,169	1,163	1,231	1,255	-6.9
Printing	1,905	1,922	1,794	-0.9	7.1	-3.8	1,917	2,084	1,901	1,831	4.7
Petroleum and coal products	3,775	3,904	3,978	-3.3	-1.9	0.7	3,747	4,038	4,118	3,041	23.2
Basic chemicals	9,918	9,887	10,132	0.3	-2.4	2.1	9,971	10,009	10,315	8,519	17.0
Plastics and rubber products	2,343	2,331	2,305	0.5	1.1	1.6	2,344	2,336	2,280	2,282	2.7
FINISHED GOODS											
All manufacturing industries ¹	162,053	162,274	161,825	-0.1	0.3	0.9	161,985	163,280	161,207	162,252	-0.2
Durable goods industries ¹	81,338	81,281	81,042	0.1	0.3	0.5	81,011	81,210	80,054	81,675	-0.8
Wood products	3,795	3,747	3,706	1.3	1.1	0.3	3,598	3,598	3,632	3,696	-2.7
Nonmetallic mineral products	4,532	4,527	4,512	0.1	0.3	-0.3	4,370	4,299	4,374	4,449	-1.8
Primary metals	6,216	6,072	6,045	2.4	0.4	0.0	6,167	5,972	5,989	6,235	-1.1
Fabricated metal products	10,279	10,272	10,246	0.1	0.3	-0.2	10,123	10,142	10,045	10,862	-6.8
Machinery	15,716	15,760	15,670	-0.3	0.6	1.1	15,806	15,662	15,394	15,878	-0.5
Computers and electronic products ¹	9,373	9,554	9,579	-1.9	-0.3	2.8	9,542	9,813	9,239	11,099	-14.0
Electrical equipment, appliances, and components	5,343	5,385	5,461	-0.8	-1.4	-0.2	5,291	5,339	5,230	5,426	-2.5
Transportation equipment	14,587	14,583	14,447	0.0	0.9	2.6	14,626	14,845	14,640	13,088	11.8
Furniture and related products	2,654	2,604	2,559	1.9	1.8	1.5	2,671	2,645	2,614	2,683	-0.4
Miscellaneous products	8,843	8,777	8,817	0.8	-0.5	1.7	8,817	8,895	8,897	8,259	6.8
Nondurable goods industries	80,715	80,993	80,783	-0.3	0.3	1.3	80,974	82,070	81,153	80,577	0.5
Food products	19,511	19,351	19,357	0.8	0.0	1.5	20,314	20,670	20,008	19,179	5.9
Beverage and tobacco products	4,187	4,378	4,636	-4.4	-5.6	1.5	4,329	4,576	4,672	4,732	-8.5
Textiles	2,317	2,384	2,394	-2.8	-0.4	-1.0	2,286	2,359	2,334	2,677	-14.6
Textile products	2,221	2,227	2,258	-0.3	-1.4	1.3	2,155	2,204	2,235	2,048	5.2
Apparel	4,377	4,442	4,486	-1.5	-1.0	5.0	4,130	4,386	4,611	4,635	-10.9
Leather and allied products	1,066	1,066	1,026	0.0	3.9	1.2	1,060	1,084	1,061	1,012	4.7
Paper products	6,302	6,212	6,203	1.4	0.1	1.6	6,251	6,093	6,092	6,340	-1.4
Printing	1,586	1,589	1,594	-0.2	-0.3	-0.9	1,558	1,585	1,628	1,653	-5.7
Petroleum and coal products	6,058	6,282	6,297	-3.6	-0.2	3.4	6,019	6,427	6,633	5,612	7.3
Basic chemicals	24,733	24,773	24,243	-0.2	2.2	-0.7	24,677	24,587	23,835	25,027	-1.4
Plastics and rubber products	8,357	8,289	8,289	0.8	0.0	4.1	8,195	8,099	8,044	7,662	7.0

^p Preliminary^r Revised¹ See footnote at end of Table 3.

Continued at end of Table 3, relation to previous pages 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			
	Nov 2002 ^p	Oct 2002 ^r	Sep 2002	Aug 2002	Nov 2002 ^p	Oct 2002 ^r	Sep 2002	Aug 2002
All manufacturing industries ²	1.32	1.31	1.33	1.32	(X)	(X)	(X)	(X)
Durable goods industries ²	1.51	1.49	1.51	1.50	3.92	3.92	3.97	4.02
Wood products.....	1.25	1.27	1.30	1.28	(X)	(X)	(X)	(X)
Nonmetallic mineral products.....	1.06	1.06	1.05	1.04	(X)	(X)	(X)	(X)
Primary metals.....	1.68	1.62	1.62	1.62	1.36	1.39	1.41	1.40
Fabricated metal products.....	1.46	1.45	1.45	1.44	1.93	1.91	1.90	1.91
Machinery.....	1.95	1.95	1.96	1.94	2.18	2.22	2.22	2.23
Computers and electronic products ²	1.62	1.61	1.63	1.62	4.88	4.85	4.91	4.93
Electrical equipment, appliances, and components.....	1.38	1.40	1.43	1.44	1.69	1.72	1.75	1.71
Transportation equipment.....	1.36	1.32	1.35	1.35	7.44	7.42	7.60	7.85
Furniture and related products.....	1.28	1.26	1.28	1.25	1.10	1.09	1.10	1.09
Miscellaneous products.....	1.70	1.74	1.83	1.77	(X)	(X)	(X)	(X)
Nondurable goods industries.....	1.10	1.11	1.12	1.11	(X)	(X)	(X)	(X)
Food products.....	0.84	0.85	0.86	0.84	(X)	(X)	(X)	(X)
Beverage and tobacco products.....	1.58	1.61	1.63	1.57	(X)	(X)	(X)	(X)
Textiles.....	1.35	1.40	1.44	1.43	(X)	(X)	(X)	(X)
Textile products.....	1.44	1.46	1.48	1.48	(X)	(X)	(X)	(X)
Apparel.....	1.53	1.63	1.60	1.58	(X)	(X)	(X)	(X)
Leather and allied products.....	2.18	2.20	2.00	2.01	(X)	(X)	(X)	(X)
Paper products.....	1.14	1.12	1.11	1.08	(X)	(X)	(X)	(X)
Printing.....	0.75	0.74	0.72	0.72	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.69	0.68	0.71	0.71	(X)	(X)	(X)	(X)
Basic chemicals.....	1.38	1.39	1.38	1.44	(X)	(X)	(X)	(X)
Plastics and rubber products.....	1.16	1.16	1.18	1.14	(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		
	Nov ¹ 2002	Nov ² 1997-2001	Nov 2001-Oct 2002	Nov ¹ 2002	Nov ² 1997-2001	Nov 2001-Oct 2002	Nov ¹ 2002	Nov ² 1997-2001	Nov 2001-Oct 2002	Nov ¹ 2002	Nov ² 1997-2001	Nov 2001-Oct 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	-0.1	(NA)	0.2	-0.1	(NA)	0.6	0.0	(NA)	0.2	-0.1	(NA)	0.2
Wood products.....	(X)	(NA)	0.5	(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)	0.4
Primary metals.....	0.0	(NA)	0.4	0.0	(NA)	0.8	0.0	(NA)	0.4	0.1	(NA)	0.1
Fabricated metal products.....	-0.1	(NA)	0.3	-0.9	(NA)	0.9	0.1	(NA)	0.4	-0.1	(NA)	0.3
Machinery.....	0.2	(NA)	0.5	0.1	(NA)	1.2	0.0	(NA)	0.4	-0.2	(NA)	0.2
Computers and electronic products ³	0.0	(NA)	0.7	-0.1	(NA)	1.1	0.0	(NA)	0.3	-0.2	(NA)	0.3
Electrical equipment, appliances, and components.....	-0.1	(NA)	0.4	-0.1	(NA)	1.1	0.0	(NA)	0.6	0.1	(NA)	0.2
Transportation equipment.....	-0.5	(NA)	0.7	-0.3	(NA)	1.5	0.1	(NA)	0.3	-0.1	(NA)	0.3
Furniture and related products.....	(X)	(NA)	0.3	(X)	(NA)	0.9	(X)	(NA)	0.7	(X)	(NA)	0.2
Miscellaneous products.....	(X)	(NA)	0.5	(X)	(NA)	1.2	(X)	(NA)	2.0	(X)	(NA)	0.3
Nondurable goods industries.....	(X)	(NA)	0.5	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.2
Food products.....	(X)	(NA)	0.8	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.3
Beverage and tobacco products.....	(X)	(NA)	1.0	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.2
Textiles.....	(X)	(NA)	0.9	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.5
Textile products.....	(X)	(NA)	0.8	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.3
Apparel.....	(X)	(NA)	0.7	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.6
Leather and allied products.....	(X)	(NA)	4.9	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	1.1
Paper products.....	(X)	(NA)	1.2	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.4
Printing.....	(X)	(NA)	0.4	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.3
Petroleum and coal products.....	(X)	(NA)	1.1	(X)	(NA)	(NA)	(X)	(NA)	(NA)	(X)	(NA)	0.7
Basic chemicals.....	(X)	(NA)	0.9	(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)	0.4

X Not Applicable

NA Not Available

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

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

³ See footnote at end of Table 7

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

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

Survey Description

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

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

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

2003 Release Dates for M3 Survey

Survey Month	Advance 8:30	Preliminary 10:00
Dec 2002	1/28/03 TU	2/4/03 TU
Jan 2003	2/27/03 TH	3/6/03 TH
Feb 2003	3/26/03 WE	4/2/03 WE
Mar 2003	4/24/03 TH	5/2/03 FR
Apr 2003	5/28/03 WE	6/5/03 TH
May 2003	6/25/03 WE	7/2/03 WE
Jun 2003	7/25/03 FR	8/4/03 MO
Jul 2003	8/26/03 TU	9/4/03 TH
Aug 2003	9/25/03 TH	10/2/03 TH
Sep 2003	10/28/03 TU	11/5/03 WE
Oct 2003	11/26/03 WE	12/5/03 FR
Nov 2003	12/24/03 WE	