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Chris Savage or Adriana Stoica
Manufacturing and Construction Division
(301) 763-4832

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Full Report on Manufacturers' Shipments, Inventories and Orders July 2011

Summary

New orders for manufactured goods in July, up two of the last three months, increased \$10.5 billion or 2.4 percent to \$453.2 billion, the U.S. Census Bureau reported today. This followed a 0.4 percent June decrease. Excluding transportation, new orders increased 0.9 percent.

Shipments, up two consecutive months, increased \$7.1 billion or 1.6 percent to \$453.2 billion. This followed a 0.6 percent June increase.

Unfilled orders, up fifteen of the last sixteen months, increased \$6.9 billion or 0.8 percent to \$870.4 billion. This followed a 0.3 percent June increase. The unfilled orders-to-shipments ratio was 6.02, down from 6.05 in June.

Inventories, up twenty one of the last twenty two months, increased \$2.9 billion or 0.5 percent to \$598.0 billion. This was at the highest level since the series was first published on a NAICS basis in 1992 and followed a 0.4 percent June increase. The inventories-to-shipments ratio was 1.32, down from 1.33 in June.

New Orders

New orders for manufactured durable goods in July, up two of the last three months, increased \$8.0 billion or 4.1 percent to \$201.9 billion, revised from the previously published 4.0 percent increase. This followed a 1.1 percent June decrease.

Transportation equipment, also up two of the last three months, had the largest increase, \$6.8 billion or 14.8 percent to \$53.2 billion.

New orders for manufactured nondurable goods increased \$2.5 billion or 1.0 percent to \$251.2 billion.

Shipments

Shipments of manufactured durable goods in July, up seven of the last eight months, increased \$4.7 billion or 2.4 percent to \$201.9 billion, revised from the previously published 2.5 percent increase. This followed a 1.1 percent June increase.

Transportation equipment, up two consecutive months,

had the largest increase, \$3.7 billion or 8.0 percent to \$49.8 billion.

Shipments of manufactured nondurable goods, up twelve of the last thirteen months, increased \$2.5 billion or 1.0 percent to \$251.2 billion. This followed a 0.2 percent June increase. Petroleum and coal products, up following three consecutive monthly decreases, drove the increase, up \$2.6 billion or 3.8 percent to \$71.8 billion.

Unfilled Orders

Unfilled orders for manufactured durable goods in July, up fifteen of the last sixteen months, increased \$6.9 billion or 0.8 percent to \$870.4 billion, revised from the previously published 0.7 percent increase. This followed a 0.3 percent June increase.

Transportation equipment, up seven consecutive months, had the largest increase, \$3.4 billion or 0.7 percent to \$501.0 billion.

Inventories

Inventories of manufactured durable goods in July, up nineteen consecutive months, increased \$3.1 billion or 0.9 percent to \$361.4 billion, revised from the previously published 0.8 percent increase. This was at the highest level since the series was first published on a NAICS basis and followed a 0.6 percent June increase.

Transportation equipment, also up nineteen consecutive months, had the largest increase, \$1.7 billion or 1.5 percent to \$110.8 billion.

Inventories of manufactured nondurable goods, down three consecutive months, decreased \$0.2 billion or 0.1 percent to \$236.7 billion. This followed a slight June decrease. Petroleum and coal products, also down three consecutive months, drove the decrease, down \$0.8 billion or 1.5 percent to \$51.6 billion.

By stage of fabrication, July materials and supplies increased 0.6 percent in durable goods and decreased 0.4 percent in nondurable goods. Work in process increased 1.2 percent in durable goods and decreased 0.8 percent in nondurable goods. Finished goods increased 0.8 percent in durable goods and 0.4 percent in nondurable goods.

Figures in text are adjusted for seasonality but not for inflation. Figures on new and unfilled orders exclude data for semiconductor manufacturing. For data, call (301) 763-4673 or go to <<http://www.census.gov/m3>>. The advance report on durable goods for August is scheduled for release on September 28, 2011, at 8:30 a.m. EDT and the full report on October 4, 2011, at 10:00 a.m. EDT. See back page for survey description.

Table 1. Value of Manufacturers' Shipments for Industry Groups¹

[Estimates are shown in millions of dollars and are based on data from the Manufacturers' Shipments, Inventories, and Orders Survey.]

Industry	Seasonally Adjusted						Not Seasonally Adjusted						
	Monthly			Percent Change			Monthly				Year to date		
	July 2011 ^P	June 2011 ^f	May 2011	June - July	May - June	Apr. - May	July 2011 ^P	June 2011 ^f	May 2011	July 2010	2011 ^P	2010	Percent 2011/2010
All manufacturing industries.....	453,156	446,021	443,344	1.6	0.6	0.0	437,892	472,262	454,596	391,618	3,070,755	2,750,907	11.6
Excluding transportation.....	403,378	399,920	397,378	0.9	0.6	0.0	398,403	421,334	409,132	352,842	2,754,426	2,446,486	12.6
Excluding defense.....	443,666	436,020	433,273	1.8	0.6	0.0	429,408	461,164	444,712	380,958	3,001,478	2,666,057	12.6
With unfilled orders.....	144,520	142,720	140,840	1.3	1.3	0.9	133,693	155,683	142,406	125,330	973,024	904,172	7.6
Durable goods industries.....	201,929	197,263	195,099	2.4	1.1	0.5	186,548	213,291	196,112	175,920	1,349,703	1,256,200	7.4
Wood products.....	5,358	5,254	5,254	2.0	0.0	-1.5	5,514	5,834	5,678	5,614	36,930	39,140	-5.6
Nonmetallic mineral products.....	7,829	7,841	7,794	-0.2	0.6	1.2	8,184	8,749	8,249	8,172	54,040	52,942	2.1
Primary metals.....	24,726	23,941	23,149	3.3	3.4	2.6	23,736	25,721	24,487	17,874	162,661	127,123	28.0
Iron and steel mills.....	11,450	11,237	11,142	1.9	0.9	-0.4	10,789	12,199	11,964	9,189	79,862	65,747	21.5
Aluminum and nonferrous metals.....	11,583	11,036	10,394	5.0	6.2	6.0	11,347	11,666	10,813	7,368	71,458	52,010	37.4
Ferrous metal foundries.....	1,693	1,668	1,613	1.5	3.4	2.3	1,600	1,856	1,710	1,317	11,341	9,366	21.1
Fabricated metal products.....	24,833	25,053	24,794	-0.9	1.0	0.7	24,093	26,745	25,500	23,066	171,120	162,233	5.5
Machinery.....	29,291	29,527	28,327	-0.8	4.2	2.3	27,546	31,880	29,078	24,609	199,467	180,169	10.7
Farm machinery.....	2,530	2,446	2,278	3.4	7.4	1.9	2,407	2,439	2,494	2,125	17,442	16,068	8.6
Construction machinery.....	3,976	3,729	3,549	6.6	5.1	0.6	3,841	3,789	3,699	2,882	25,095	18,278	37.3
Mining, oil field, and gas field machinery.....	1,750	1,712	1,731	2.2	-1.1	5.4	1,591	1,858	1,667	1,337	11,256	10,856	3.7
Industrial machinery.....	3,261	3,246	3,117	0.5	4.1	8.5	3,036	3,700	3,145	2,402	21,810	18,459	18.2
Photographic equipment.....	663	636	661	4.2	-3.8	-0.5	619	648	626	618	4,521	4,620	-2.1
Ventilation, heating, air-conditioning, and refrigeration equipment.....	2,591	2,635	2,631	-1.7	0.2	-0.6	2,662	3,478	2,763	2,858	18,362	19,283	-4.8
Metalworking machinery.....	2,018	1,950	1,895	3.5	2.9	1.8	1,845	2,163	1,863	1,797	12,782	12,692	0.7
Turbines, generators, and other power transmission equipment.....	3,568	4,272	3,500	-16.5	22.1	3.5	3,253	4,383	3,623	2,732	25,418	21,570	17.8
Material handling equipment.....	2,512	2,546	2,561	-1.3	-0.6	3.5	2,338	2,703	2,573	2,048	17,063	14,682	16.2
Computers and electronic products ²	31,105	30,467	30,840	2.1	-1.2	-0.8	30,273	32,276	28,665	31,257	209,474	203,567	2.9
Computers.....	4,233	4,107	3,964	3.1	3.6	-4.6	4,779	4,453	3,527	4,300	27,828	24,113	15.4
Computer storage devices.....	610	671	713	-9.1	-5.9	2.3	419	1,045	521	517	4,398	4,040	8.9
Other peripheral equipment.....	908	966	931	-6.0	3.8	6.4	668	1,331	823	714	5,792	5,391	7.4
Nondefense communications equipment.....	2,555	2,567	2,633	-0.5	-2.5	-4.7	2,185	2,996	2,499	2,691	17,805	21,417	-16.9
Defense communications equipment.....	466	510	484	-8.6	5.4	0.8	460	517	479	592	3,390	3,863	-12.2
Audio and video equipment.....	251	254	248	-1.2	2.4	-1.6	204	233	213	211	1,551	1,532	1.2
Electronic components.....	3,262	3,258	3,432	0.1	-5.1	0.0	2,982	3,567	3,362	3,352	22,873	23,313	-1.9
Nondefense search and navigation equipment.....	1,224	1,202	1,238	1.8	-2.9	7.7	1,028	1,357	1,260	866	8,085	7,254	11.5
Defense search and navigation equipment.....	2,715	2,719	2,762	-0.1	-1.6	0.8	2,367	2,897	2,822	2,576	18,650	21,147	-11.8
Electromedical, measuring, and control instruments.....	7,609	7,647	7,509	-0.5	1.8	1.5	6,588	8,448	7,083	6,530	50,474	47,343	6.6
Electrical equipment, appliances, and components.....	9,966	10,150	10,149	-1.8	0.0	1.6	9,405	10,986	10,183	9,211	69,273	65,037	6.5
Electric lighting equipment.....	1,020	1,028	999	-0.8	2.9	-0.6	968	1,057	987	949	6,892	6,687	3.1
Household appliances.....	1,529	1,547	1,570	-1.2	-1.5	-0.3	1,400	1,703	1,636	1,459	10,848	11,057	-1.9
Electrical equipment.....	3,640	3,721	3,705	-2.2	0.4	2.9	3,412	4,241	3,736	3,387	25,456	23,512	8.3
Batteries.....	808	868	897	-6.9	-3.2	-0.1	742	885	821	796	5,538	5,363	3.3
Transportation equipment.....	49,778	46,101	45,966	8.0	0.3	-0.6	39,489	50,928	45,464	38,776	316,329	304,421	3.9
Automobiles.....	5,416	5,170	5,111	4.8	1.2	-0.4	4,285	5,575	5,023	4,179	34,904	33,367	4.6
Light trucks and utility vehicles.....	9,634	7,955	7,607	21.1	4.6	-3.6	6,262	8,519	7,343	4,870	53,530	43,674	22.6
Heavy duty trucks.....	1,946	1,879	1,972	3.6	-4.7	8.5	1,704	2,007	1,829	1,344	11,940	10,659	12.0
Motor vehicle bodies, parts, and trailers.....	15,268	13,875	14,251	10.0	-2.6	1.4	12,268	14,810	14,719	11,732	98,723	92,139	7.1
Nondefense aircraft and parts.....	7,483	6,937	6,720	7.9	3.2	-1.5	6,318	8,467	6,398	6,710	46,888	44,303	5.8
Defense aircraft and parts.....	3,803	4,213	4,241	-9.7	-0.7	1.1	3,317	4,969	3,956	4,235	28,314	34,643	-18.3
Ships and boats.....	2,305	2,280	2,220	1.1	2.7	-2.4	2,113	2,437	2,385	2,383	16,150	16,811	-3.9
Furniture and related products.....	5,421	5,522	5,565	-1.8	-0.8	0.2	5,518	5,763	5,598	5,334	38,324	35,613	7.6
Miscellaneous durable goods.....	13,622	13,407	13,261	1.6	1.1	-0.2	12,790	14,409	13,210	12,007	92,085	85,955	7.1
Nondurable goods industries.....	251,227	248,758	248,245	1.0	0.2	-0.5	251,344	258,971	258,484	215,698	1,721,052	1,494,707	15.1
Food products.....	61,562	61,078	60,992	0.8	0.1	-0.2	59,549	61,151	60,447	53,480	415,477	375,591	10.6
Grain and oilseed milling.....	8,229	8,219	8,336	0.1	-1.4	-0.9	8,003	7,976	7,777	6,685	55,839	47,963	16.4
Dairy products.....	9,522	9,368	9,102	1.6	2.9	-2.4	9,442	9,456	9,150	8,174	62,840	55,115	14.0
Meat, poultry, and seafood products.....	17,136	17,181	17,117	-0.3	0.4	-0.5	17,049	17,732	17,252	16,355	118,535	111,051	6.7
Beverage and tobacco products.....	12,135	12,604	12,121	-3.7	4.0	1.3	11,934	13,409	12,953	11,378	82,984	73,362	13.1
Beverages.....	9,526	9,670	9,492	-1.5	1.9	0.6	9,325	10,475	10,324	8,759	65,033	55,565	17.0
Tobacco.....	2,609	2,934	2,629	-11.1	11.6	3.7	2,609	2,934	2,629	2,619	17,951	17,797	0.9
Textile mills.....	2,631	2,623	2,647	0.3	-0.9	1.9	2,531	2,789	2,704	2,410	18,406	17,323	6.3
Textile products.....	1,832	1,854	1,832	-1.2	1.2	-0.1	1,881	1,998	1,917	1,824	13,043	12,837	1.6
Apparel.....	1,270	1,280	1,264	-0.8	1.3	-0.9	1,285	1,272	1,199	1,236	8,491	8,173	3.9
Leather and allied products.....	321	320	330	0.3	-3.0	1.9	318	341	309	300	2,189	2,151	1.8
Paper products.....	14,421	14,373	14,332	0.3	0.3	-1.0	14,313	14,852	14,401	14,533	100,483	98,498	2.0
Pulp, paper, and paperboard mills.....	6,763	6,785	6,662	-0.3	1.8	-0.4	6,772	6,973	6,638	6,789	46,891	45,820	2.3
Paperboard containers.....	4,332	4,296	4,327	0.8	-0.7	-2.0	4,303	4,460	4,369	4,397	30,393	29,284	3.8
Printing.....	6,903	6,961	7,058	-0.8	-1.4	0.3	6,479	6,890	7,026	6,662	47,784	47,829	-0.1
Petroleum and coal products.....	71,817	69,172	69,519	3.8	-0.5	-2.9	76,803	73,495	75,711	53,282	488,513	358,846	36.1
Petroleum refineries.....	67,505	64,891	65,575	4.0	-1.0	-3.2	71,842	68,343	71,420	49,681	461,397	336,783	37.0
Chemical products.....	62,087	62,377	62,303	-0.5	0.1	1.6	60,093	65,306	65,249	55,320	431,956	393,819	9.7
Pesticides, fertilizers, and other agricultural chemicals.....	5,373	5,264	5,160	2.1	2.0	13.4	4,322	5,583	6,935	3,281	39,810	31,108	28.0
Pharmaceuticals and medicines.....	15,263	15,867	15,775	-3.8	0.6	0.1	14,594	16,388	15,732	15,389	107,528	108,248	-0.7
Paints, coatings, and adhesives.....	2,503	2,478	2,452	1.0	1.1	1.8	2,669	2,820	2,709	2,672	17,698	17,916	-1.2
Plastics and rubber products.....	16,248	16,116	15,847	0.8	1.7	-0.1	16,158	17,468	16,568	15,273	111,726	106,278	5.1

^P Preliminary^f Revised data due to late receipts and concurrent seasonal adjustment.

¹ Estimates of shipments and new orders are for the duration of the period, while estimates of unfilled orders and total inventories are for the end of the period. Not seasonally adjusted estimates of shipments and new orders include adjusted data for non-calendar reporters. Seasonally adjusted estimates include concurrent adjustments for holiday and trading-day differences, where appropriate, as well as seasonal variation, based on the results of the latest annual review of the model parameters. Estimates are not adjusted for price changes. See note at end of Table 2 relating to survey error and revision.

² Estimates and percent changes of shipments for the semiconductor industry are no longer shown separately, but are included in computers and electronic products, and all other applicable aggregate totals.

Table 2. Value of Manufacturers' New Orders for Industry Groups¹

[Estimates are shown in millions of dollars and are based on data from the Manufacturers' Shipments, Inventories, and Orders Survey.]

Industry	Seasonally Adjusted						Not Seasonally Adjusted						
	Monthly			Percent Change			Monthly				Year to date		
	July 2011 ^P	June 2011 ^f	May 2011	June - July	May - June	Apr. - May	July 2011 ^P	June 2011 ^f	May 2011	July 2010	2011 ^P	2010	Percent 2011/2010
All manufacturing industries ²	453,166	442,711	444,454	2.4	-0.4	0.6	433,669	465,286	453,509	382,296	3,064,655	2,721,627	12.6
Excluding transportation ²	400,008	396,392	394,838	0.9	0.4	0.0	392,804	416,263	406,210	345,959	2,738,739	2,426,437	12.9
Excluding defense ²	443,056	431,725	432,753	2.6	-0.2	0.4	426,727	453,434	443,758	373,817	2,989,076	2,638,278	13.3
With unfilled orders ²	151,385	145,513	148,424	4.0	-2.0	2.7	137,687	153,667	146,995	124,463	1,012,827	916,229	10.5
Durable goods industries ²	201,939	193,953	196,209	4.1	-1.1	2.0	182,325	206,315	195,025	166,598	1,343,603	1,226,920	9.5
Primary metals.....	25,010	22,749	22,686	9.9	0.3	0.2	23,963	23,933	23,979	19,221	162,946	132,430	23.0
Iron and steel mills.....	11,568	9,642	10,489	20.0	-8.1	-3.3	10,835	10,155	11,522	10,490	78,278	70,248	11.4
Aluminum and nonferrous metals.....	11,721	11,425	10,524	2.6	8.6	3.8	11,486	11,967	10,699	7,433	72,844	52,587	38.5
Ferrous metal foundries.....	1,721	1,682	1,673	2.3	0.5	1.4	1,642	1,811	1,758	1,298	11,824	9,595	23.2
Fabricated metal products.....	25,554	25,865	24,872	-1.2	4.0	0.9	24,746	26,677	25,743	22,941	176,818	165,064	7.1
Machinery.....	31,956	32,015	32,455	-0.2	-1.4	2.5	30,105	33,494	32,757	25,734	220,064	189,415	16.2
Construction machinery.....	4,419	4,181	3,749	5.7	11.5	-2.3	4,368	3,884	3,772	3,099	27,343	18,845	45.1
Mining, oil field, and gas field machinery.....	2,701	2,275	2,839	18.7	-19.9	24.0	2,557	2,240	3,069	1,153	15,737	12,280	28.2
Industrial machinery.....	2,913	3,381	3,349	-13.8	1.0	-10.1	2,943	3,685	3,068	2,980	23,078	19,891	16.0
Photographic equipment.....	688	691	709	-0.4	-2.5	10.4	647	691	680	600	4,663	4,693	-0.6
Ventilation, heating, air-conditioning, and refrigeration equipment.....	2,691	2,631	3,284	2.3	-19.9	-5.8	2,446	3,514	3,396	2,824	22,126	21,437	3.2
Metalworking machinery.....	2,122	2,111	1,990	0.5	6.1	1.8	1,919	2,289	1,892	1,747	13,895	12,567	10.6
Turbines, generators, and other power transmission equipment.....	4,757	5,542	4,572	-14.2	21.2	19.8	4,424	5,634	4,601	2,751	29,805	22,376	33.2
Material handling equipment.....	2,564	2,371	2,620	8.1	-9.5	-9.5	2,282	2,479	2,593	2,341	17,743	15,510	14.4
Computers and electronic products ²	23,778	24,618	24,399	-3.4	0.9	0.4	20,839	27,383	21,857	21,956	162,885	161,313	1.0
Computers.....	3,919	4,237	4,129	-7.5	2.6	1.0	4,465	4,583	3,692	4,034	27,503	24,024	14.5
Nondefense communications equipment.....	2,146	2,992	2,536	-28.3	18.0	7.8	1,707	3,216	2,070	2,662	16,462	19,896	-17.3
Defense communications equipment.....	461	474	456	-2.7	3.9	12.9	306	555	302	373	2,996	3,995	-25.0
Electronic components.....	3,336	3,181	3,425	4.9	-7.1	-5.0	3,101	3,437	3,289	3,352	23,034	24,274	-5.1
Nondefense search and navigation equipment.....	1,153	1,300	1,261	-11.3	3.1	-5.3	998	1,478	1,234	988	8,390	7,217	16.3
Defense search and navigation equipment.....	2,787	2,833	2,812	-1.6	0.7	12.8	2,020	2,977	2,451	2,328	18,429	20,665	-10.8
Electromedical, measuring, and control instruments.....	7,790	7,247	7,436	7.5	-2.5	-4.2	6,575	8,056	6,862	6,324	51,605	47,462	8.7
Electrical equipment, appliances, and components.....	10,205	10,440	10,401	-2.3	0.4	2.8	9,908	11,194	10,434	9,600	72,472	68,514	5.8
Electric lighting equipment.....	1,021	1,042	1,005	-2.0	3.7	3.1	939	1,150	1,004	901	7,014	6,791	3.3
Household appliances.....	1,495	1,593	1,548	-6.2	2.9	6.3	1,446	1,635	1,618	1,517	10,943	11,192	-2.2
Electrical equipment.....	3,824	3,846	3,816	-0.6	0.8	1.9	3,737	4,355	3,881	3,552	27,356	25,191	8.6
Transportation equipment.....	53,158	46,319	49,616	14.8	-6.6	5.8	40,865	49,023	47,299	36,337	325,916	295,190	10.4
Motor vehicle bodies, parts, and trailers.....	15,328	13,955	14,245	9.8	-2.0	1.6	12,346	14,553	14,552	11,611	98,388	91,123	8.0
Nondefense aircraft and parts.....	10,470	7,302	9,611	43.4	-24.0	31.4	8,878	7,246	8,794	6,666	54,996	42,608	29.1
Defense aircraft and parts.....	3,839	4,090	5,145	-6.1	-20.5	13.4	2,925	4,746	4,421	3,821	30,676	34,970	-12.3
Ships and boats.....	2,170	2,612	2,462	-16.9	6.1	-4.1	1,284	2,714	2,374	1,138	18,425	13,627	35.2
Furniture and related products.....	5,467	5,467	5,477	0.0	-0.2	-4.7	5,409	5,641	5,825	5,017	39,540	36,500	8.3
Nondurable goods industries.....	251,227	248,758	248,245	1.0	0.2	-0.5	251,344	258,971	258,484	215,698	1,721,052	1,494,707	15.1

^P Preliminary^f Revised data due to late receipts and concurrent seasonal adjustment.

¹ Estimates of shipments and new orders are for the duration of the period, while estimates of unfilled orders and total inventories are for the end of the period. Not seasonally adjusted estimates of shipments and new orders include adjusted data for non-calendar reporters. Seasonally adjusted estimates include concurrent adjustments for holiday and trading-day differences, where appropriate, as well as seasonal variation, based on the results of the latest annual review of the model parameters. Estimates are not adjusted for price changes.

² Data on new orders are not available for the semiconductor industry. Estimates and percent changes for new orders exclude semiconductor industry data.

Note: Estimates of manufacturers' shipments, inventories and orders are subject to survey error and revision. One major component of survey error is nonsampling error, which includes errors of coverage, response, and nonreporting. Since the survey panel is not a probability sample, estimates of sampling error cannot be calculated. For further details on survey design, methodology, and data limitations see <<http://www.census.gov/manufacturing/m3/>>.

Table 3. Value of Manufacturers' Unfilled Orders for Industry Groups¹

[Estimates are shown in millions of dollars and are based on data from the Manufacturers' Shipments, Inventories, and Orders Survey.]

Industry	Seasonally Adjusted						Not Seasonally Adjusted				
	Monthly			Percent Change			Monthly				Percent Change July 11/10
	July 2011 ^P	June 2011 ^r	May 2011	June - July	May - June	Apr. - May	July 2011 ^P	June 2011 ^r	May 2011	July 2010	
All manufacturing industries ²	870,406	863,541	860,748	0.8	0.3	0.9	869,261	865,267	867,283	810,730	7.2
Excluding transportation ²	369,381	365,896	363,321	1.0	0.7	1.1	370,414	367,796	367,907	326,047	13.6
Excluding defense ²	700,252	694,007	692,199	0.9	0.3	0.9	699,555	694,019	696,789	648,268	7.9
Durable goods industries ²	870,406	863,541	860,748	0.8	0.3	0.9	869,261	865,267	867,283	810,730	7.2
Primary metals.....	31,799	31,515	32,707	0.9	-3.6	-1.4	31,946	31,719	33,507	29,008	10.1
Iron and steel mills.....	17,761	17,643	19,238	0.7	-8.3	-3.3	17,938	17,892	19,936	17,850	0.5
Aluminum and nonferrous metals.....	10,676	10,538	10,149	1.3	3.8	1.3	10,646	10,507	10,206	8,435	26.2
Ferrous metal foundries.....	3,362	3,334	3,320	0.8	0.4	1.8	3,362	3,320	3,365	2,723	23.5
Fabricated metal products.....	64,299	63,578	62,766	1.1	1.3	0.1	64,986	64,333	64,401	61,486	5.7
Machinery.....	114,744	112,079	109,591	2.4	2.3	3.9	114,875	112,316	110,702	85,528	34.3
Construction machinery.....	10,247	9,804	9,352	4.5	4.8	2.2	10,196	9,669	9,574	6,656	53.2
Mining, oil field, and gas field machinery.....	13,190	12,239	11,676	7.8	4.8	10.5	13,167	12,201	11,819	8,043	63.7
Industrial machinery.....	14,992	15,340	15,205	-2.3	0.9	1.5	15,156	15,249	15,264	12,227	24.0
Photographic equipment.....	2,012	1,987	1,932	1.3	2.8	2.5	2,021	1,993	1,950	2,294	-11.9
Ventilation, heating, air-conditioning, and refrigeration equipment.....	20,724	20,624	20,628	0.5	0.0	3.3	20,844	21,060	21,024	15,752	32.3
Metalworking machinery.....	5,398	5,294	5,133	2.0	3.1	1.9	5,381	5,307	5,181	3,990	34.9
Turbines, generators, and other power transmission equipment.....	19,120	17,931	16,661	6.6	7.6	6.9	19,072	17,901	16,650	11,561	65.0
Material handling equipment.....	8,276	8,224	8,399	0.6	-2.1	0.7	8,243	8,299	8,523	7,209	14.3
Computers and electronic products ²	123,857	124,329	124,075	-0.4	0.2	0.0	123,185	124,402	124,335	119,724	2.9
Computers.....	3,329	3,643	3,513	-8.6	3.7	4.9	3,329	3,643	3,513	3,455	-3.6
Nondefense communications equipment.....	22,261	22,670	22,245	-1.8	1.9	-0.4	21,901	22,379	22,159	21,889	0.1
Defense communications equipment.....	5,991	5,996	6,032	-0.1	-0.6	-0.5	5,953	6,107	6,069	6,293	-5.4
Electronic components.....	11,587	11,513	11,590	0.6	-0.7	-0.1	11,592	11,473	11,603	11,555	0.3
Nondefense search and navigation equipment.....	8,785	8,856	8,758	-0.8	1.1	0.3	8,830	8,860	8,739	8,957	-1.4
Defense search and navigation equipment.....	44,037	43,965	43,851	0.2	0.3	0.1	43,809	44,156	44,076	42,035	4.2
Electromedical, measuring, and control instruments.....	27,867	27,686	28,086	0.7	-1.4	-0.3	27,771	27,784	28,176	25,540	8.7
Electrical equipment, appliances, and components.....	26,037	25,798	25,508	0.9	1.1	1.0	26,451	25,948	25,740	22,108	19.6
Electric lighting equipment.....	1,087	1,086	1,072	0.1	1.3	0.6	1,139	1,168	1,075	1,070	6.4
Household appliances.....	803	837	791	-4.1	5.8	-2.7	799	753	821	679	17.7
Electrical equipment.....	14,688	14,504	14,379	1.3	0.9	0.8	14,937	14,612	14,498	12,393	20.5
Transportation equipment.....	501,025	497,645	497,427	0.7	0.0	0.7	498,847	497,471	499,376	484,683	2.9
Motor vehicle bodies, parts, and trailers.....	13,643	13,583	13,503	0.4	0.6	0.0	13,461	13,383	13,640	12,884	4.5
Nondefense aircraft and parts.....	347,240	344,253	343,888	0.9	0.1	0.8	345,524	342,964	344,185	329,384	4.9
Defense aircraft and parts.....	54,389	54,353	54,476	0.1	-0.2	1.7	54,467	54,859	55,082	51,398	6.0
Ships and boats.....	19,232	19,367	19,035	-0.7	1.7	1.3	19,211	20,040	19,763	19,747	-2.7
Furniture and related products.....	7,120	7,074	7,129	0.7	-0.8	-1.2	7,446	7,555	7,677	6,650	12.0

^P Preliminary ^r Revised data due to late receipts and concurrent seasonal adjustment.

¹ Estimates of shipments and new orders are for the duration of the period, while estimates of unfilled orders and total inventories are for the end of the period. Not seasonally adjusted estimates of shipments and new orders include adjusted data for non-calendar reporters. Seasonally adjusted estimates include concurrent adjustments for holiday and trading-day differences, where appropriate, as well as seasonal variation, based on the results of the latest annual review of the model parameters. Estimates are not adjusted for price changes.

² Data on unfilled orders are not available for the semiconductor industry. Estimates and percent changes for unfilled orders exclude semiconductor industry data. See note at end of Table 2 relating to survey error and revision.

Table 4. Value of Manufacturers' Inventories for Industry Groups¹

[Estimates are shown in millions of dollars and are based on data from the Manufacturers' Shipments, Inventories, and Orders Survey.]

Industry	Seasonally Adjusted						Not Seasonally Adjusted					Percent Change July 11/10
	Monthly			Percent Change			Monthly					
	July 2011 ^P	June 2011 ^r	May 2011	June - July	May - June	Apr. - May	July 2011 ^P	June 2011 ^r	May 2011	July 2010		
All manufacturing industries.....	598,034	595,119	592,935	0.5	0.4	0.8	603,424	593,816	599,541	533,894	13.0	
Excluding transportation.....	487,269	486,014	485,105	0.3	0.2	0.5	491,298	485,071	490,186	439,842	11.7	
Excluding defense.....	572,002	569,327	566,787	0.5	0.4	0.7	577,385	568,102	573,360	508,727	13.5	
With unfilled orders.....	296,793	294,156	291,894	0.9	0.8	1.4	299,704	293,483	295,254	262,436	14.2	
Durable goods industries.....	361,355	358,215	355,983	0.9	0.6	1.3	364,643	357,232	360,108	322,562	13.0	
Wood products.....	8,426	8,467	8,615	-0.5	-1.7	-0.2	8,320	8,312	8,473	8,321	0.0	
Nonmetallic mineral products.....	10,770	10,838	10,771	-0.6	0.6	1.0	10,847	10,907	10,996	10,331	5.0	
Primary metals.....	34,036	33,853	33,777	0.5	0.2	1.3	34,809	34,270	34,430	29,791	16.8	
Iron and steel mills.....	21,046	20,893	20,831	0.7	0.3	1.2	21,743	21,306	21,361	18,472	17.7	
Aluminum and nonferrous metals.....	10,988	10,987	10,970	0.0	0.2	1.7	11,100	11,010	11,066	9,549	16.2	
Ferrous metal foundries.....	2,002	1,973	1,976	1.5	-0.2	0.7	1,966	1,954	2,003	1,770	11.1	
Fabricated metal products.....	45,604	45,269	45,047	0.7	0.5	2.0	46,172	45,443	45,385	41,469	11.3	
Machinery.....	58,455	57,759	57,249	1.2	0.9	1.6	58,480	57,280	57,924	51,193	14.2	
Farm machinery.....	3,272	3,249	3,200	0.7	1.5	1.2	3,230	3,290	3,290	2,647	22.0	
Construction machinery.....	5,477	5,428	5,231	0.9	3.8	3.2	5,422	5,449	5,275	4,253	27.5	
Mining, oil field, and gas field machinery.....	7,191	7,053	7,029	2.0	0.3	1.8	7,332	7,107	7,209	6,248	17.3	
Industrial machinery.....	6,668	6,566	6,511	1.6	0.8	0.2	6,633	6,577	6,671	6,060	9.5	
Photographic equipment.....	1,542	1,539	1,541	0.2	-0.1	1.0	1,594	1,546	1,523	1,531	4.1	
Ventilation, heating, air-conditioning, and refrigeration equipment.....	4,281	4,251	4,278	0.7	-0.6	1.6	4,327	4,253	4,513	4,057	6.7	
Metalworking machinery.....	4,734	4,666	4,540	1.5	2.8	2.5	4,795	4,657	4,596	4,081	17.5	
Turbines, generators, and other power transmission equipment.....	7,471	7,323	7,297	2.0	0.4	2.7	7,461	6,985	7,249	5,937	25.7	
Material handling equipment.....	3,619	3,536	3,473	2.3	1.8	1.7	3,619	3,518	3,487	3,210	12.7	
Computers and electronic products ²	48,483	48,259	48,131	0.5	0.3	0.3	48,667	47,583	48,565	45,127	7.8	
Computers.....	3,089	3,005	3,038	2.8	-1.1	-3.4	3,017	2,986	3,156	3,079	-2.0	
Computer storage devices.....	1,387	1,359	1,253	2.1	8.5	-1.1	1,410	1,307	1,343	1,287	9.6	
Other peripheral equipment.....	1,426	1,422	1,412	0.3	0.7	0.5	1,483	1,408	1,459	1,475	0.5	
Nondefense communications equipment.....	7,229	7,279	7,108	-0.7	2.4	1.4	7,182	7,017	7,113	6,657	7.9	
Defense communications equipment.....	2,703	2,664	2,639	1.5	0.9	0.5	2,703	2,664	2,639	2,399	12.7	
Audio and video equipment.....	529	534	527	-0.9	1.3	-0.6	539	508	502	536	0.6	
Electronic components.....	7,193	7,173	7,178	0.3	-0.1	-1.0	7,290	6,988	7,202	6,739	8.2	
Nondefense search and navigation equipment.....	3,203	3,187	3,219	0.5	-1.0	-1.8	3,220	3,148	3,233	3,069	4.9	
Defense search and navigation equipment.....	2,781	2,788	2,910	-0.3	-4.2	2.8	2,810	2,764	2,960	2,930	-4.1	
Electromedical, measuring and control instruments.....	12,956	12,930	12,837	0.2	0.7	1.6	12,933	12,733	12,946	11,543	12.0	
Electrical equipment, appliances, and components.....	15,503	15,519	15,489	-0.1	0.2	0.6	15,718	15,547	15,710	14,658	7.2	
Electric lighting equipment.....	1,758	1,745	1,730	0.7	0.9	1.8	1,795	1,770	1,776	1,638	9.6	
Household appliances.....	2,192	2,222	2,226	-1.4	-0.2	-0.3	2,285	2,227	2,233	2,133	7.1	
Electrical equipment.....	5,028	5,033	5,017	-0.1	0.3	1.2	5,017	4,950	5,028	4,808	4.3	
Batteries.....	1,001	1,022	1,037	-2.1	-1.4	-1.5	1,040	1,042	1,071	1,082	-3.9	
Transportation equipment.....	110,765	109,105	107,830	1.5	1.2	1.7	112,126	108,745	109,355	94,052	19.2	
Automobiles.....	3,092	2,870	2,901	7.7	-1.1	0.6	3,225	2,744	3,056	2,605	23.8	
Light trucks and utility vehicles.....	3,081	2,912	2,855	5.8	2.0	2.6	3,107	2,878	2,994	2,457	26.5	
Heavy duty trucks.....	1,480	1,488	1,566	-0.5	-5.0	1.8	1,520	1,473	1,599	1,466	3.7	
Motor vehicle bodies, parts, and trailers.....	17,838	17,736	17,569	0.6	1.0	1.0	17,946	17,521	17,691	16,239	10.5	
Nondefense aircraft and parts.....	60,118	59,188	57,838	1.6	2.3	2.2	61,114	59,354	58,866	46,438	31.6	
Defense aircraft and parts.....	14,378	14,265	14,599	0.8	-2.3	2.4	14,463	14,304	14,639	14,089	2.7	
Ships and boats.....	3,369	3,356	3,316	0.4	1.2	-1.2	3,305	3,344	3,250	3,120	5.9	
Furniture and related products.....	6,826	6,784	6,764	0.6	0.3	0.3	6,942	6,918	6,846	6,543	6.1	
Miscellaneous durable goods.....	22,487	22,362	22,310	0.6	0.2	0.3	22,562	22,227	22,424	21,077	7.0	
Nondurable goods industries.....	236,679	236,904	236,952	-0.1	0.0	0.0	238,781	236,584	239,433	211,332	13.0	
Food products.....	44,924	44,827	44,574	0.2	0.6	0.9	44,279	43,354	43,283	40,602	9.1	
Grain and oilseed milling.....	5,454	5,493	5,639	-0.7	-2.6	-1.1	5,372	5,310	5,383	4,976	8.0	
Dairy products.....	5,951	5,886	5,739	1.1	2.6	2.4	6,205	6,099	5,970	5,478	13.3	
Meat, poultry, and seafood products.....	8,578	8,574	8,554	0.0	0.2	0.9	8,458	8,286	8,408	7,982	6.0	
Beverage and tobacco products.....	16,497	16,420	16,383	0.5	0.2	-0.2	15,913	15,937	16,228	15,665	1.6	
Beverages.....	13,045	12,967	12,943	0.6	0.2	-0.1	12,672	12,627	12,862	12,283	3.2	
Tobacco.....	3,452	3,453	3,440	0.0	0.4	-0.6	3,241	3,310	3,366	3,382	-4.2	
Textile mills.....	3,638	3,589	3,541	1.4	1.4	2.1	3,640	3,603	3,586	3,042	19.7	
Textile products.....	3,012	2,999	2,991	0.4	0.3	0.7	3,041	3,040	3,047	2,721	11.8	
Apparel.....	2,521	2,461	2,455	2.4	0.2	1.7	2,657	2,526	2,431	2,214	20.0	
Leather and allied products.....	897	891	889	0.7	0.2	0.3	917	894	885	766	19.7	
Paper products.....	13,983	13,943	13,925	0.3	0.1	-0.1	13,940	13,777	13,958	13,713	1.7	
Pulp, paper, and paperboard mills.....	5,987	5,948	5,960	0.7	-0.2	-0.1	5,949	5,818	6,000	5,734	3.7	
Paperboard containers.....	4,000	4,011	3,989	-0.3	0.6	-0.6	3,985	3,988	3,986	4,041	-1.4	
Printing.....	5,535	5,528	5,514	0.1	0.3	-2.5	5,603	5,503	5,445	5,374	4.3	
Petroleum and coal products.....	51,642	52,417	53,750	-1.5	-2.5	-2.9	53,910	53,752	56,570	39,881	35.2	
Petroleum refineries.....	48,232	49,095	50,434	-1.8	-2.7	-3.2	50,324	50,363	53,150	36,744	37.0	
Chemical products.....	73,159	72,984	72,651	0.2	0.5	1.4	73,929	73,337	73,503	68,028	8.7	
Pesticides, fertilizers, and other agricultural chemicals.....	3,682	3,666	3,610	0.4	1.6	-5.1	3,489	3,504	3,661	3,337	4.6	
Pharmaceuticals and medicines.....	25,188	25,449	25,477	-1.0	-0.1	-0.1	25,533	25,890	25,771	25,213	1.3	
Paints, coatings, and adhesives.....	3,085	3,106	3,125	-0.7	-0.6	-1.1	3,133	3,177	3,189	2,961	5.8	
Plastics and rubber products.....	20,871	20,845	20,279	0.1	2.8	0.9	20,952	20,861	20,497	19,326	8.4	

^P Preliminary^r Revised data due to late receipts and concurrent seasonal adjustment.

¹ Estimates of shipments and new orders are for the duration of the period, while estimates of unfilled orders and total inventories are for the end of the period. Not seasonally adjusted estimates of shipments and new orders include adjusted data for non-calendar reporters. Seasonally adjusted estimates include concurrent adjustments for holiday and trading-day differences, where appropriate, as well as seasonal variation, based on the results of the latest annual review of the model parameters. Estimates are not adjusted for price changes.

² Estimates of inventories for the semiconductor industry data are included in computers and electronic products and all other applicable aggregates totals, but are not shown separately.

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

Table 5. Value of Manufacturers' Shipments, New Orders, Unfilled Orders, and Total Inventories for Topical Series^{1, 2}

[Estimates are shown in millions of dollars and are based on data from the Manufacturers' Shipments, Inventories, and Orders Survey.]

Industry	Seasonally Adjusted						Not Seasonally Adjusted						Percent Change ⁶ 2011/ 2010
	Monthly			Percent Change			Monthly			Year to date			
	July 2011 ^p	June 2011 ^f	May 2011	June - July	May - June	Apr. - May	July 2011 ^p	June 2011 ^f	May 2011	July 2010	2011 ^p	2010	
SHIPMENTS													
All manufacturing industries.....	453,156	446,021	443,344	1.6	0.6	0.0	437,892	472,262	454,596	391,618	3,070,755	2,750,907	11.6
Construction materials and supplies.....	37,201	37,170	36,655	0.1	1.4	0.7	38,311	41,786	38,694	36,790	254,725	248,279	2.6
Information technology.....	24,620	24,728	24,573	-0.4	0.6	0.2	22,576	27,497	23,256	22,688	165,758	161,955	2.3
Computers and related products.....	5,751	5,744	5,608	0.1	2.4	-2.1	5,866	6,829	4,871	5,531	38,018	33,544	13.3
Motor vehicle and parts.....	32,264	28,879	28,941	11.7	-0.2	0.1	24,519	30,911	28,914	22,125	199,097	179,839	10.7
Capital goods.....	76,375	76,144	74,869	0.3	1.7	1.0	70,806	83,353	73,956	68,538	514,302	491,349	4.7
Nondefense capital goods ³	69,037	68,410	66,985	0.9	2.1	1.3	64,144	75,062	66,096	60,000	459,809	422,457	8.8
Excluding aircraft.....	64,406	64,513	63,253	-0.2	2.0	1.7	60,341	70,287	62,436	55,656	433,430	396,148	9.4
Defense capital goods ⁴	7,338	7,734	7,884	-5.1	-1.9	-1.0	6,662	8,291	7,860	8,538	54,493	68,892	-20.9
Consumer goods.....	199,041	195,158	194,472	2.0	0.4	-1.4	194,781	202,325	200,476	164,758	1,347,157	1,155,102	16.6
Consumer durable goods.....	27,463	25,632	25,092	7.1	2.2	-1.7	21,810	27,362	24,964	20,101	175,342	160,094	9.5
Consumer nondurable goods.....	171,578	169,526	169,380	1.2	0.1	-1.3	172,971	174,963	175,512	144,657	1,171,815	995,008	17.8
NEW ORDERS													
All manufacturing industries ⁵	453,166	442,711	444,454	2.4	-0.4	0.6	433,669	465,286	453,509	382,296	3,064,655	2,721,627	12.6
Construction materials and supplies.....	37,549	37,411	37,153	0.4	0.7	-0.2	38,154	41,525	39,378	36,704	260,856	251,710	3.6
Information technology.....	24,187	25,219	24,818	-4.1	1.6	1.8	21,429	27,806	22,358	22,038	166,135	161,709	2.7
Computers and related products.....	5,437	5,874	5,773	-7.4	1.7	2.0	5,552	6,959	5,036	5,265	37,693	33,455	12.7
Motor vehicle and parts.....	32,324	28,959	28,935	11.6	0.1	0.2	24,597	30,654	28,747	22,004	198,762	178,823	11.2
Capital goods.....	81,380	79,870	81,859	1.9	-2.4	5.6	73,298	84,552	78,521	66,046	545,337	495,329	10.1
Nondefense capital goods ³	73,232	71,136	72,856	2.9	-2.4	5.4	67,793	75,439	70,966	59,729	484,645	428,577	13.1
Excluding aircraft.....	66,491	67,097	66,540	-0.9	0.8	1.9	62,318	71,727	65,102	56,008	452,243	403,843	12.0
Defense capital goods ⁴	8,148	8,734	9,003	-6.7	-3.0	7.6	5,505	9,113	7,555	6,317	60,692	66,752	-9.1
Consumer goods.....	199,042	195,112	194,350	2.0	0.4	-1.4	194,938	201,991	200,292	164,795	1,347,343	1,155,805	16.6
Consumer durable goods.....	27,464	25,586	24,970	7.3	2.5	-2.0	21,967	27,028	24,780	20,138	175,528	160,797	9.2
Consumer nondurable goods.....	171,578	169,526	169,380	1.2	0.1	-1.3	172,971	174,963	175,512	144,657	1,171,815	995,008	17.8
UNFILLED ORDERS													
All manufacturing industries ⁵	870,406	863,541	860,748	0.8	0.3	0.9	869,261	865,267	867,283	810,730	(X)	(X)	7.2
Construction materials and supplies.....	58,153	57,805	57,564	0.6	0.4	0.9	58,563	58,720	58,981	52,303	(X)	(X)	12.0
Information technology.....	123,741	124,174	123,683	-0.3	0.4	0.2	123,190	124,337	124,028	118,429	(X)	(X)	4.0
Computers and related products.....	3,329	3,643	3,513	-8.6	3.7	4.9	3,329	3,643	3,513	3,455	(X)	(X)	-3.6
Motor vehicle and parts.....	13,643	13,583	13,503	0.4	0.6	0.0	13,461	13,383	13,640	12,884	(X)	(X)	4.5
Capital goods.....	660,921	655,916	652,190	0.8	0.6	1.1	659,247	656,755	655,556	614,181	(X)	(X)	7.3
Nondefense capital goods ³	509,665	505,470	502,744	0.8	0.5	1.2	508,376	504,727	504,350	468,960	(X)	(X)	8.4
Excluding aircraft.....	204,555	202,470	199,886	1.0	1.3	1.7	204,907	202,930	201,490	177,316	(X)	(X)	15.6
Defense capital goods ⁴	151,256	150,446	149,446	0.5	0.7	0.8	150,871	152,028	151,206	145,221	(X)	(X)	3.9
Consumer goods.....	4,782	4,781	4,827	0.0	-1.0	-2.5	4,796	4,639	4,973	4,680	(X)	(X)	2.5
Consumer durable goods.....	4,782	4,781	4,827	0.0	-1.0	-2.5	4,796	4,639	4,973	4,680	(X)	(X)	2.5
TOTAL INVENTORIES													
All manufacturing industries.....	598,034	595,119	592,935	0.5	0.4	0.8	603,424	593,816	599,541	533,894	(X)	(X)	13.0
Construction materials and supplies.....	56,938	56,814	56,806	0.2	0.0	1.2	57,483	56,802	57,389	53,837	(X)	(X)	6.8
Information technology.....	42,763	42,590	42,385	0.4	0.5	0.6	42,869	42,020	42,899	39,855	(X)	(X)	7.6
Computers and related products.....	5,902	5,786	5,703	2.0	1.5	-1.9	5,910	5,701	5,958	5,841	(X)	(X)	1.2
Motor vehicle and parts.....	25,491	25,006	24,891	1.9	0.5	1.2	25,798	24,616	25,340	22,767	(X)	(X)	13.3
Capital goods.....	185,023	183,270	181,486	1.0	1.0	1.5	186,204	182,573	183,781	160,550	(X)	(X)	16.0
Nondefense capital goods ³	164,532	162,954	160,697	1.0	1.4	1.5	165,791	162,374	162,999	140,503	(X)	(X)	18.0
Excluding aircraft.....	112,906	112,084	111,060	0.7	0.9	1.1	113,237	111,219	112,455	102,022	(X)	(X)	11.0
Defense capital goods ⁴	20,491	20,316	20,789	0.9	-2.3	2.1	20,413	20,199	20,782	20,047	(X)	(X)	1.8
Consumer goods.....	179,634	180,038	181,152	-0.2	-0.6	-0.6	181,244	179,267	182,891	159,735	(X)	(X)	13.5
Consumer durable goods.....	26,924	26,515	26,515	1.5	0.0	0.5	27,138	26,035	26,649	24,844	(X)	(X)	9.2
Consumer nondurable goods.....	152,710	153,523	154,637	-0.5	-0.7	-0.8	154,106	153,232	156,242	134,891	(X)	(X)	14.2

X Not Applicable ^p Preliminary ^f Revised data due to late receipts and concurrent seasonal adjustment.

¹ Estimates of shipments and new orders are for the duration of the period, while estimates of unfilled orders and total inventories are for the end of the period. Not seasonally adjusted estimates of shipments and new orders include adjusted data for non-calendar reporters. Seasonally adjusted estimates include concurrent adjustments for holiday and trading-day differences, where appropriate, as well as seasonal variation, based on the results of the latest annual review of the model parameters. Estimates are not adjusted for price changes.

² Topical series are regroupings of the separate industry categories.

³ Nondefense capital goods industries include: small arms and ordnance; farm machinery and equipment; construction machinery; mining, oil, and gas field machinery; industrial machinery; vending, laundry, and other machinery; photographic equipment; metalworking machinery; turbines and generators; other power transmission equipment; pumps and compressors; material handling equipment; all other machinery; electronic computers; computer storage devices; other computer peripheral equipment; communications equipment; search and navigation equipment; electromedical, measuring, and control instruments; electrical equipment; other electrical equipment, appliances, and components; heavy duty trucks; aircraft; railroad rolling stock; ships and boats; office and institutional furniture; and medical equipment and supplies.

⁴ Defense capital goods industries include: small arms and ordnance; communications equipment; aircraft; missiles, space vehicles, and parts; ships and boats; and search and navigation equipment.

⁵ Estimates and percent changes exclude semiconductor industry data.

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

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

Table 6. Value of Manufacturers' Inventories, by Stage of Fabrication, by Industry Group¹

[Estimates are shown in millions of dollars and are based on data from the Manufacturers' Shipments, Inventories, and Orders Survey.]

Industry	Seasonally Adjusted						Not Seasonally Adjusted				
	Monthly			Percent Change			Monthly				Percent Change July 11/10
	July 2011 ^P	June 2011 ^r	May 2011	June - July	May - June	Apr. - May	July 2011 ^P	June 2011 ^r	May 2011	July 2010	
MATERIALS AND SUPPLIES											
All manufacturing industries.....	195,351	194,955	195,226	0.2	-0.1	0.6	197,285	194,985	196,390	178,534	10.5
Durable goods industries.....	115,698	114,983	114,806	0.6	0.2	1.0	116,851	114,413	114,889	107,067	9.1
Wood products.....	3,091	3,136	3,247	-1.4	-3.4	0.1	3,003	2,955	2,994	3,055	-1.7
Nonmetallic mineral products.....	4,332	4,351	4,310	-0.4	1.0	1.0	4,346	4,355	4,320	4,074	6.7
Primary metals.....	13,772	13,714	13,743	0.4	-0.2	0.8	14,020	13,899	13,728	12,355	13.5
Fabricated metal products.....	16,390	16,312	16,268	0.5	0.3	3.3	16,520	16,367	16,150	14,632	12.9
Machinery.....	22,069	21,664	21,314	1.9	1.6	1.1	22,314	21,463	21,511	19,046	17.2
Computers and electronic products.....	18,340	18,109	18,332	1.3	-1.2	-0.3	18,365	17,811	18,391	16,709	9.9
Electrical equipment, appliances, and components.....	6,552	6,534	6,509	0.3	0.4	0.8	6,651	6,596	6,607	6,297	5.6
Transportation equipment.....	20,543	20,691	20,670	-0.7	0.1	0.6	20,935	20,505	20,742	21,084	-0.7
Furniture and related products.....	3,376	3,321	3,259	1.7	1.9	1.1	3,406	3,347	3,282	3,099	9.9
Miscellaneous products.....	7,233	7,151	7,154	1.1	0.0	1.6	7,291	7,115	7,164	6,716	8.6
Nondurable goods industries.....	79,653	79,972	80,420	-0.4	-0.6	-0.1	80,434	80,572	81,501	71,467	12.5
Food products.....	14,722	14,483	14,523	1.7	-0.3	0.2	14,550	14,142	14,240	13,872	4.9
Beverage and tobacco products.....	4,321	4,334	4,291	-0.3	1.0	-0.6	4,123	4,206	4,244	4,171	-1.2
Textiles.....	1,322	1,324	1,322	-0.2	0.2	4.5	1,339	1,337	1,343	1,121	19.4
Textile products.....	1,405	1,394	1,373	0.8	1.5	1.0	1,431	1,417	1,394	1,240	15.4
Apparel.....	859	847	839	1.4	1.0	1.7	880	862	842	618	42.4
Leather and allied products.....	312	313	306	-0.3	2.3	0.3	316	309	308	268	17.9
Paper products.....	6,655	6,662	6,667	-0.1	-0.1	-0.4	6,591	6,569	6,595	6,549	0.6
Printing.....	2,672	2,681	2,695	-0.3	-0.5	-1.8	2,700	2,693	2,660	2,570	5.1
Petroleum and coal products.....	15,718	16,459	17,398	-4.5	-5.4	-1.3	16,435	17,275	18,647	12,227	34.4
Chemical products.....	22,940	22,868	22,604	0.3	1.2	0.9	23,188	23,132	22,833	20,960	10.6
Plastics and rubber products.....	8,727	8,607	8,402	1.4	2.4	-0.9	8,881	8,630	8,395	7,871	12.8
WORK IN PROCESS											
All manufacturing industries.....	187,502	186,284	184,621	0.7	0.9	1.0	188,602	185,309	186,459	160,352	17.6
Durable goods industries.....	141,207	139,595	138,216	1.2	1.0	1.7	142,480	139,407	139,944	120,205	18.5
Wood products.....	1,518	1,529	1,535	-0.7	-0.4	0.5	1,505	1,532	1,539	1,449	3.9
Nonmetallic mineral products.....	1,208	1,207	1,198	0.1	0.8	2.6	1,220	1,239	1,245	1,177	3.7
Primary metals.....	9,923	9,801	9,834	1.2	-0.3	0.6	10,335	10,017	10,207	8,617	19.9
Fabricated metal products.....	12,593	12,413	12,292	1.5	1.0	1.5	12,708	12,354	12,383	11,315	12.3
Machinery.....	14,993	15,054	15,075	-0.4	-0.1	2.7	14,948	14,948	15,252	13,616	9.8
Computers and electronic products.....	18,399	18,374	18,204	0.1	0.9	0.0	18,537	18,313	18,469	17,649	5.0
Electrical equipment, appliances, and components.....	3,670	3,658	3,622	0.3	1.0	0.6	3,732	3,653	3,717	3,280	13.8
Transportation equipment.....	74,526	73,222	72,129	1.8	1.5	2.3	75,063	72,981	72,754	58,830	27.6
Furniture and related products.....	1,067	1,060	1,078	0.7	-1.7	2.4	1,077	1,068	1,086	1,005	7.2
Miscellaneous products.....	3,310	3,277	3,249	1.0	0.9	0.4	3,355	3,302	3,292	3,267	2.7
Nondurable goods industries.....	46,295	46,689	46,405	-0.8	0.6	-0.9	46,122	45,902	46,515	40,147	14.9
Food products.....	3,634	3,617	3,593	0.5	0.7	1.4	3,070	3,064	3,067	2,649	15.9
Beverage and tobacco products.....	5,545	5,522	5,537	0.4	-0.3	-0.6	5,046	5,184	5,413	5,087	-0.8
Textiles.....	838	815	812	2.8	0.4	1.2	846	813	825	712	18.8
Textile products.....	455	453	462	0.4	-1.9	-2.5	454	454	475	417	8.9
Apparel.....	378	369	362	2.4	1.9	4.0	403	383	366	377	6.9
Leather and allied products.....	90	91	92	-1.1	-1.1	3.4	90	93	92	75	20.0
Paper products.....	1,289	1,267	1,233	1.7	2.8	-0.9	1,305	1,272	1,229	1,261	3.5
Printing.....	1,233	1,216	1,210	1.4	0.5	-3.7	1,242	1,144	1,149	1,212	2.5
Petroleum and coal products.....	16,199	16,383	16,303	-1.1	0.5	-3.5	16,874	16,388	16,848	11,749	43.6
Chemical products.....	14,585	14,867	14,810	-1.9	0.4	0.5	14,760	15,046	15,067	14,499	1.8
Plastics and rubber products.....	2,049	2,089	1,991	-1.9	4.9	5.1	2,032	2,061	1,984	2,109	-3.7
FINISHED GOODS											
All manufacturing industries.....	215,181	213,880	213,088	0.6	0.4	0.7	217,537	213,522	216,692	195,008	11.6
Durable goods industries.....	104,450	103,637	102,961	0.8	0.7	1.0	105,312	103,412	105,275	95,290	10.5
Wood products.....	3,817	3,802	3,833	0.4	-0.8	-0.7	3,812	3,825	3,940	3,817	-0.1
Nonmetallic mineral products.....	5,230	5,280	5,263	-0.9	0.3	0.7	5,281	5,313	5,431	5,080	4.0
Primary metals.....	10,341	10,338	10,200	0.0	1.4	2.8	10,454	10,354	10,495	8,819	18.5
Fabricated metal products.....	16,621	16,544	16,487	0.5	0.3	1.1	16,944	16,722	16,852	15,522	9.2
Machinery.....	21,393	21,041	20,860	1.7	0.9	1.3	21,218	20,869	21,161	18,531	14.5
Computers and electronic products.....	11,744	11,776	11,595	-0.3	1.6	1.8	11,765	11,459	11,705	10,769	9.2
Electrical equipment, appliances, and components.....	5,281	5,327	5,358	-0.9	-0.6	0.3	5,335	5,298	5,386	5,081	5.0
Transportation equipment.....	15,696	15,192	15,031	3.3	1.1	0.8	16,128	15,259	15,859	14,138	14.1
Furniture and related products.....	2,383	2,403	2,427	-0.8	-1.0	-1.7	2,459	2,503	2,478	2,439	0.8
Miscellaneous products.....	11,944	11,934	11,907	0.1	0.2	-0.5	11,916	11,810	11,968	11,094	7.4
Nondurable goods industries.....	110,731	110,243	110,127	0.4	0.1	0.4	112,225	110,110	111,417	99,718	12.5
Food products.....	26,568	26,727	26,458	-0.6	1.0	1.3	26,659	26,148	25,976	24,081	10.7
Beverage and tobacco products.....	6,631	6,564	6,555	1.0	0.1	0.3	6,744	6,547	6,571	6,407	5.3
Textiles.....	1,478	1,450	1,407	1.9	3.1	0.5	1,455	1,453	1,418	1,209	20.3
Textile products.....	1,152	1,152	1,156	0.0	-0.3	1.8	1,156	1,169	1,178	1,064	8.6
Apparel.....	1,284	1,245	1,254	3.1	-0.7	1.0	1,374	1,281	1,223	1,219	12.7
Leather and allied products.....	495	487	491	1.6	-0.8	-0.2	511	492	485	423	20.8
Paper products.....	6,039	6,014	6,025	0.4	-0.2	0.4	6,044	5,936	6,134	5,903	2.4
Printing.....	1,630	1,631	1,609	-0.1	1.4	-2.6	1,661	1,666	1,636	1,592	4.3
Petroleum and coal products.....	19,725	19,575	20,049	0.8	-2.4	-3.8	20,601	20,089	21,075	15,905	29.5
Chemical products.....	35,634	35,249	35,237	1.1	0.0	2.1	35,981	35,159	35,603	32,569	10.5
Plastics and rubber products.....	10,095	10,149	9,886	-0.5	2.7	1.6	10,039	10,170	10,118	9,346	7.4

^P Preliminary^r Revised data due to late receipts and concurrent seasonal adjustment.

¹ Estimates of shipments and new orders are for the duration of the period, while estimates of unfilled orders and total inventories are for the end of the period. Not seasonally adjusted estimates of shipments and new orders include adjusted data for non-calendar reporters. Seasonally adjusted estimates include concurrent adjustments for holiday and trading-day differences, where appropriate, as well as seasonal variation, based on the results of the latest annual review of the model parameters. Estimates are not adjusted for price changes.

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 Group³

[Based on Seasonally Adjusted data from the Manufacturers' Shipments, Inventories, and Orders Survey.]

Industry	Inventory/Shipments ratio				Unfilled Orders/Shipments ratio ¹			
	Jul 2011 ^P	Jun 2011 ^f	May 2011	Apr 2011	Jul 2011 ^P	Jun 2011 ^f	May 2011	Apr 2011
All manufacturing industries ²	1.32	1.33	1.34	1.33	(X)	(X)	(X)	(X)
Durable goods industries ²	1.79	1.82	1.82	1.81	6.02	6.05	6.11	6.11
Wood products.....	1.57	1.61	1.64	1.62	(X)	(X)	(X)	(X)
Nonmetallic mineral products.....	1.38	1.38	1.38	1.38	(X)	(X)	(X)	(X)
Primary metals.....	1.38	1.41	1.46	1.48	1.29	1.32	1.41	1.47
Fabricated metal products.....	1.84	1.81	1.82	1.79	2.67	2.62	2.61	2.63
Machinery.....	2.00	1.96	2.02	2.03	4.39	4.24	4.31	4.25
Computers and electronic products ²	1.56	1.58	1.56	1.54	5.61	5.65	5.63	5.61
Electrical equipment, appliances, and components.....	1.56	1.53	1.53	1.54	2.84	2.78	2.76	2.78
Transportation equipment.....	2.23	2.37	2.35	2.29	15.28	16.00	15.90	15.72
Furniture and related products.....	1.26	1.23	1.22	1.21	1.52	1.48	1.47	1.51
Miscellaneous products.....	1.65	1.67	1.68	1.67	(X)	(X)	(X)	(X)
Nondurable goods industries.....	0.94	0.95	0.95	0.95	(X)	(X)	(X)	(X)
Food products.....	0.73	0.73	0.73	0.72	(X)	(X)	(X)	(X)
Beverage and tobacco products.....	1.36	1.30	1.35	1.37	(X)	(X)	(X)	(X)
Textiles.....	1.38	1.37	1.34	1.33	(X)	(X)	(X)	(X)
Textile products.....	1.64	1.62	1.63	1.62	(X)	(X)	(X)	(X)
Apparel.....	1.99	1.92	1.94	1.89	(X)	(X)	(X)	(X)
Leather and allied products.....	2.79	2.78	2.69	2.73	(X)	(X)	(X)	(X)
Paper products.....	0.97	0.97	0.97	0.96	(X)	(X)	(X)	(X)
Printing.....	0.80	0.79	0.78	0.80	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.72	0.76	0.77	0.77	(X)	(X)	(X)	(X)
Chemical products.....	1.18	1.17	1.17	1.17	(X)	(X)	(X)	(X)
Plastics and rubber products.....	1.28	1.29	1.28	1.27	(X)	(X)	(X)	(X)

X Not Applicable ^P Preliminary ^f Revised data due to late receipts and concurrent seasonal adjustment.

¹ Excludes the following industries with no unfilled orders: Wood products; nonmetallic mineral products; medical equipment and supplies; office supplies; other miscellaneous manufacturing; cutlery and handtools; farm and garden machinery; computer storage and peripheral devices; audio and video equipment; manufacturing and reproducing magnetic and optical media; batteries; automobiles; light trucks and utility vehicles; heavy duty trucks; and miscellaneous furniture.

² Unfilled orders to shipments ratio excludes semiconductor manufacturing.

Table 8. Revisions to Previously Published Monthly Percent Changes³

[Based on Seasonally Adjusted data from the Manufacturers' Shipments, Inventories, and Orders Survey.]

Industry	Shipments		New Orders		Unfilled Orders		Inventories	
	Jul ¹ 2011	Jul ² 2010- Jun 2011	Jul ¹ 2011	Jul ² 2010- Jun 2011	Jul ¹ 2011	Jul ² 2010- Jun 2011	Jul ¹ 2011	Jul ² 2010- Jun 2011
	All manufacturing industries.....	(X)	0.3	(X)	0.5	(X)	0.1	(X)
Durable goods industries.....	-0.1	0.3	0.1	0.8	0.1	0.1	0.1	0.2
Wood products.....	(X)	0.9	(X)	(NA)	(X)	(NA)	(X)	0.5
Nonmetallic mineral products.....	(X)	0.3	(X)	(NA)	(X)	(NA)	(X)	0.2
Primary metals.....	-0.1	0.8	-0.4	2.5	-0.1	1.5	0.0	0.5
Fabricated metal products.....	0.0	0.3	-0.2	0.7	-0.1	0.1	0.1	0.2
Machinery.....	-0.3	0.9	1.3	2.0	0.5	0.5	0.3	0.2
Computers and electronic products.....	-0.3	0.7	0.0	1.1	0.0	0.2	0.0	0.2
Electrical equipment, appliances, and components.....	-0.4	0.8	-0.5	1.0	0.1	0.3	0.2	0.2
Transportation equipment.....	0.0	0.6	0.2	1.5	0.0	0.1	0.0	0.3
Furniture and related products.....	(X)	0.6	(X)	1.3	(X)	0.8	(X)	0.4
Miscellaneous products.....	(X)	0.3	(X)	0.3	(X)	0.1	(X)	0.1
Nondurable goods industries.....	(X)	0.3	(X)	(NA)	(X)	(NA)	(X)	0.3
Food products.....	(X)	0.3	(X)	(NA)	(X)	(NA)	(X)	0.4
Beverage and tobacco products.....	(X)	0.5	(X)	(NA)	(X)	(NA)	(X)	0.3
Textiles.....	(X)	0.6	(X)	(NA)	(X)	(NA)	(X)	0.7
Textile products.....	(X)	0.5	(X)	(NA)	(X)	(NA)	(X)	0.5
Apparel.....	(X)	1.0	(X)	(NA)	(X)	(NA)	(X)	0.5
Leather and allied products.....	(X)	0.8	(X)	(NA)	(X)	(NA)	(X)	0.6
Paper products.....	(X)	0.2	(X)	(NA)	(X)	(NA)	(X)	0.2
Printing.....	(X)	0.6	(X)	(NA)	(X)	(NA)	(X)	0.7
Petroleum and coal products.....	(X)	0.9	(X)	(NA)	(X)	(NA)	(X)	1.2
Chemical products.....	(X)	0.5	(X)	(NA)	(X)	(NA)	(X)	0.2
Plastics and rubber products.....	(X)	0.6	(X)	(NA)	(X)	(NA)	(X)	0.6

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 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.

³ Estimates of shipments and new orders are for the duration of the period, while estimates of unfilled orders and total inventories are for the end of the period. Not seasonally adjusted estimates of shipments and new orders include adjusted data for non-calendar reporters. Seasonally adjusted estimates include concurrent adjustments for holiday and trading-day differences, where appropriate, as well as seasonal variation, based on the results of the latest annual review of the model parameters. Estimates are not adjusted for price changes.

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 4,300 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 65 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 4,300 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 4,300 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. Any corrections will be published in the full report. Corrections received after the full report will be released in the next month's advance report. Any revisions made later than two months will be reflected in the annual benchmark publication.

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