

# U.S. Census Bureau News

U.S. Department of Commerce • Washington, D.C. 20233

FOR IMMEDIATE RELEASE

WEDNESDAY, AUGUST 26, 2009, AT 8:30 A.M. EDT

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M3-1 (09)-07  
CB09-130

## Advance Report on Durable Goods Manufacturers' Shipments, Inventories and Orders July 2009

### New Orders

New orders for manufactured durable goods in July increased \$7.8 billion or 4.9 percent to \$168.4 billion, the U.S. Census Bureau announced today. This was the third increase in the last four months and the largest percent increase since July 2007. This followed a 1.3 percent June decrease. Excluding transportation, new orders increased 0.8 percent. Excluding defense, new orders increased 4.3 percent.

Transportation equipment, up three of the last four months, had the largest increase, \$6.8 billion or 18.4 percent to \$43.7 billion.

### Shipments

Shipments of manufactured durable goods in July, up two consecutive months, increased \$3.5 billion or 2.0 percent to \$173.1 billion. This followed a 0.7 percent June increase.

Computers and electronic products, up three of the last four months, had the largest increase, \$2.1 billion or 7.4 percent to \$29.8 billion.

### Unfilled Orders

Unfilled orders for manufactured durable goods in July, down ten consecutive months, decreased \$0.4 billion or 0.1 percent to \$740.2 billion. This was the longest streak of consecutive monthly decreases since the series was first published on a NAICS basis in 1992 and followed a 0.8 percent June decrease.

Machinery, down ten consecutive months, had the largest decrease, \$0.7 billion or 0.8 percent to \$86.9 billion.

### Inventories

Inventories of manufactured durable goods in July, down seven consecutive months, decreased \$2.7 billion or 0.8 percent to \$314.1 billion. This followed a 1.5 percent June decrease.

Primary metals, down ten consecutive months, had the largest decrease, \$0.7 billion or 2.8 percent to \$25.5 billion.

### Capital Goods

Nondefense new orders for capital goods in July increased \$4.6 billion or 8.6 percent to \$57.5 billion. Shipments increased \$0.5 billion or 0.8 percent to \$56.9 billion. Unfilled orders increased \$0.6 billion or 0.1 percent to \$426.2 billion. Inventories decreased \$1.0 billion or 0.7 percent to \$138.5 billion.

Defense new orders for capital goods in July increased \$1.3 billion or 14.8 percent to \$9.8 billion. Shipments decreased \$0.4 billion or 3.6 percent to \$10.4 billion. Unfilled orders decreased \$0.7 billion or 0.5 percent to \$141.5 billion. Inventories increased \$0.1 billion or 0.7 percent to \$20.2 billion.

### Revised June Data

Revised seasonally adjusted June figures for all manufacturing industries were: new orders, \$350.7 billion (revised from \$349.0 billion); shipments, \$359.7 billion (revised from \$358.3 billion); unfilled orders, \$740.7 billion (revised from \$740.2 billion); and total inventories, \$507.2 billion (revised from \$508.3 billion).

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Figures in text are in seasonally adjusted current dollars. 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>.

Revised and more detailed estimates, plus nondurable goods data, will be published on September 2, 2009, at 10:00 a.m. EDT. The advance report on durable goods for August is scheduled for release on September 25, 2009, at 8:30 a.m. EDT. See back page for survey description.

**Table 1. Durable Goods Manufacturers' Shipments and New Orders**  
[Millions of Dollars]

Item	Seasonally Adjusted						Not Seasonally Adjusted <sup>1</sup>					
	Monthly			Percent Change			Monthly			Year to Date		
	Jul 2009 <sup>2</sup>	Jun 2009 <sup>r</sup>	May 2009	Jun - Jul <sup>2</sup>	May - Jun <sup>r</sup>	Apr - May	Jul 2009 <sup>2</sup>	Jun 2009 <sup>r</sup>	Jul 2008	2009	2008	Percent Change 09/08
<b>DURABLE GOODS</b>												
<b>Total:</b>												
Shipments.....	173,096	169,634	168,483	2.0	0.7	-2.7	163,971	184,804	199,721	1,197,111	1,482,423	-19.2
New Orders <sup>4</sup> .....	168,428	160,621	162,674	4.9	-1.3	1.3	155,665	172,457	195,439	1,110,205	1,495,796	-25.8
<b>Excluding transportation:</b>												
Shipments.....	129,812	126,959	126,434	2.2	0.4	-1.4	128,163	137,859	157,454	898,141	1,111,090	-19.2
New Orders <sup>4</sup> .....	124,729	123,699	120,739	0.8	2.5	0.8	122,148	132,699	153,534	848,679	1,100,615	-22.9
<b>Excluding defense:</b>												
Shipments.....	159,336	155,492	155,038	2.5	0.3	-3.0	151,428	169,734	188,655	1,106,739	1,403,492	-21.1
New Orders <sup>4</sup> .....	155,099	148,635	147,619	4.3	0.7	0.9	145,751	160,000	186,657	1,026,196	1,414,621	-27.5
<b>Manufacturing with unfilled orders:</b>												
Shipments.....	124,496	123,289	121,472	1.0	1.5	-2.1	117,583	135,001	145,033	863,353	1,061,787	-18.7
New Orders <sup>4</sup> .....	124,054	117,232	119,135	5.8	-1.6	3.2	114,793	124,849	146,959	802,668	1,111,575	-27.8
<b>Primary metals:</b>												
Shipments.....	13,044	12,275	12,073	6.3	1.7	-3.2	13,415	13,092	23,312	92,151	158,429	-41.8
New Orders.....	13,417	13,074	11,649	2.6	12.2	-0.2	13,894	13,682	23,505	88,771	161,185	-44.9
<b>Fabricated metal products:</b>												
Shipments.....	23,550	23,410	23,223	0.6	0.8	-2.4	23,704	24,930	28,286	166,891	193,967	-14.0
New Orders.....	23,087	22,465	22,410	2.8	0.2	-2.6	23,143	23,348	27,574	160,338	197,747	-18.9
<b>Machinery:</b>												
Shipments.....	22,441	23,293	23,158	-3.7	0.6	1.5	21,703	25,397	28,204	164,809	205,853	-19.9
New Orders.....	21,741	23,271	22,272	-6.6	4.5	7.2	21,428	24,290	31,694	153,731	220,295	-30.2
<b>Computers and electronic products:</b>												
Shipments.....	29,838	27,773	27,718	7.4	0.2	-2.6	28,368	30,814	29,928	192,717	220,893	-12.8
New Orders <sup>4</sup> .....	25,481	25,078	24,769	1.6	1.2	2.4	22,301	28,327	22,887	165,487	186,300	-11.2
<b>Computers and related products:</b>												
Shipments.....	4,485	4,366	4,352	2.7	0.3	-0.5	4,004	5,305	4,341	29,499	35,203	-16.2
New Orders.....	4,529	4,660	4,635	-2.8	0.5	15.9	4,048	5,599	4,207	29,263	35,309	-17.1
<b>Communications equipment:</b>												
Shipments.....	5,464	5,114	4,579	6.8	11.7	-2.0	4,627	6,300	4,888	32,493	38,691	-16.0
New Orders.....	5,384	4,923	4,952	9.4	-0.6	-0.6	4,425	5,831	4,631	33,186	39,375	-15.7
<b>Semiconductors:</b>												
Shipments.....	4,226	2,956	3,472	43.0	-14.9	-14.5	5,516	2,195	6,208	26,221	36,415	-28.0
New Orders <sup>4</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
<b>Electrical equipment, appliances, and components:</b>												
Shipments.....	8,461	8,321	8,297	1.7	0.3	-3.7	8,167	9,030	10,581	58,616	74,159	-21.0
New Orders.....	8,508	8,080	7,947	5.3	1.7	-2.0	8,538	8,547	10,535	57,553	76,708	-25.0
<b>Transportation equipment:</b>												
Shipments.....	43,284	42,675	42,049	1.4	1.5	-6.5	35,808	46,945	42,267	298,970	371,333	-19.5
New Orders.....	43,699	36,922	41,935	18.4	-12.0	2.9	33,517	39,758	41,905	261,526	395,181	-33.8
<b>Motor vehicles and parts:</b>												
Shipments.....	23,436	22,812	22,780	2.7	0.1	-9.0	18,375	24,644	24,236	165,143	236,968	-30.3
New Orders.....	22,852	22,637	22,688	0.9	-0.2	-8.4	18,246	24,347	24,576	163,810	235,994	-30.6
<b>Nondefense aircraft and parts:</b>												
Shipments.....	7,784	7,347	7,218	5.9	1.8	-7.0	6,708	8,789	7,607	53,109	58,194	-8.7
New Orders.....	9,252	4,465	6,383	107.2	-30.0	60.4	6,695	4,959	8,624	28,351	82,423	-65.6
<b>Defense aircraft and parts:</b>												
Shipments.....	5,608	6,201	5,693	-9.6	8.9	7.4	4,972	6,740	4,443	36,681	30,321	21.0
New Orders.....	5,747	7,076	5,435	-18.8	30.2	0.3	4,743	7,476	4,799	36,608	32,322	13.3
<b>All other durable goods:</b>												
Shipments.....	32,478	31,887	31,965	1.9	-0.2	-0.4	32,806	34,596	37,143	222,957	257,789	-13.5
New Orders.....	32,495	31,731	31,692	2.4	0.1	-1.0	32,844	34,505	37,339	222,799	258,380	-13.8
<b>Capital goods:<sup>3</sup></b>												
Shipments.....	67,364	67,287	66,240	0.1	1.6	-0.8	62,321	74,450	71,448	464,061	530,225	-12.5
New Orders.....	67,255	61,418	65,137	9.5	-5.7	8.8	59,001	65,868	72,356	414,280	569,830	-27.3
<b>Nondefense capital goods:</b>												
Shipments.....	56,915	56,447	55,904	0.8	1.0	-1.0	52,597	63,136	62,991	394,323	469,130	-15.9
New Orders.....	57,474	52,901	53,099	8.6	-0.4	9.1	51,975	57,283	65,996	350,314	507,677	-31.0
<b>Excluding aircraft:</b>												
Shipments.....	52,968	52,692	52,032	0.5	1.3	-0.4	49,465	58,536	58,971	366,517	437,692	-16.3
New Orders.....	51,975	52,124	50,326	-0.3	3.6	4.3	48,545	56,396	60,988	349,261	453,801	-23.0
<b>Defense capital goods:</b>												
Shipments.....	10,449	10,840	10,336	-3.6	4.9	0.4	9,724	11,314	8,457	69,738	61,095	14.1
New Orders.....	9,781	8,517	12,038	14.8	-29.2	7.1	7,026	8,585	6,360	63,966	62,153	2.9

NA Not Available <sup>r</sup> Revised

<sup>1</sup> Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and total inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

<sup>2</sup> Based on advance sample. 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: M3-3(07), "Manufacturers' Shipments, Inventories, and Orders: 2004-2007."

<sup>3</sup> The Capital Goods Industries include Nondefense : 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.

Defense Capital Goods include : small arms and ordnance, communications equipment, aircraft; missiles, space vehicles, and parts, ships and boats, and search and navigation equipment.

<sup>4</sup> Data on new and unfilled orders are not available for the semiconductor industry. Estimates and percent changes for new orders and unfilled orders exclude semiconductor industry data. Inventories for semiconductor industry data are included in computers and electronic products and total durable goods industries, but are not shown separately.

**Table 2. Durable Goods Manufacturers' Unfilled Orders and Total Inventories**  
[Millions of Dollars]

Item	Seasonally Adjusted						Not Seasonally Adjusted <sup>1</sup>			
	Monthly			Percent Change			Monthly			Percent Change 2009/2008
	Jul 2009 <sup>2</sup>	Jun 2009 <sup>r</sup>	May 2009	Jun - Jul <sup>2</sup>	May - Jun <sup>r</sup>	Apr - May	Jul 2009 <sup>2</sup>	Jun 2009 <sup>r</sup>	Jul 2008	
<b>DURABLE GOODS</b>										
Total:										
Unfilled Orders <sup>4</sup> .....	740,245	740,687	746,744	-0.1	-0.8	-0.3	738,068	740,858	821,604	-10.2
Total Inventories.....	314,108	316,781	321,576	-0.8	-1.5	-1.2	314,969	313,164	338,279	-6.9
Excluding transportation:										
Unfilled Orders <sup>4</sup> .....	306,267	307,124	307,428	-0.3	-0.1	-0.7	307,677	308,176	360,961	-14.8
Total Inventories.....	220,164	223,528	228,370	-1.5	-2.1	-1.5	220,431	221,000	249,292	-11.6
Excluding defense:										
Unfilled Orders <sup>4</sup> .....	582,366	582,377	586,278	0.0	-0.7	-0.7	581,875	582,036	668,051	-12.9
Total Inventories.....	287,897	290,773	295,320	-1.0	-1.5	-1.3	288,734	287,151	313,586	-7.9
Manufacturing with unfilled orders:										
Unfilled Orders <sup>4</sup> .....	740,245	740,687	746,744	-0.1	-0.8	-0.3	738,068	740,858	821,604	-10.2
Total Inventories.....	252,839	254,633	258,790	-0.7	-1.6	-1.2	253,750	251,872	271,641	-6.6
Primary metals:										
Unfilled Orders.....	14,708	14,335	13,536	2.6	5.9	-3.0	14,947	14,468	30,019	-50.2
Total Inventories.....	25,455	26,195	27,067	-2.8	-3.2	-3.2	25,716	26,036	34,420	-25.3
Fabricated metal products:										
Unfilled Orders.....	49,350	49,813	50,758	-0.9	-1.9	-1.6	50,182	50,743	63,199	-20.6
Total Inventories.....	38,052	38,720	39,625	-1.7	-2.3	-1.9	38,250	38,403	44,731	-14.5
Machinery:										
Unfilled Orders.....	86,855	87,555	87,577	-0.8	0.0	-1.0	86,833	87,108	104,829	-17.2
Total Inventories.....	50,068	50,782	51,583	-1.4	-1.6	-1.5	49,628	50,078	54,090	-8.2
Computers and electronic products:										
Unfilled Orders <sup>4</sup> .....	123,956	124,087	123,826	-0.1	0.2	0.4	123,570	124,121	123,589	0.0
Total Inventories.....	43,693	44,251	45,590	-1.3	-2.9	-0.8	43,891	43,340	46,924	-6.5
Computers and related products:										
Unfilled Orders.....	3,854	3,810	3,516	1.2	8.4	8.8	3,854	3,810	3,823	0.8
Total Inventories.....	4,276	4,333	4,406	-1.3	-1.7	-4.2	4,297	4,154	5,034	-14.6
Communications equipment:										
Unfilled Orders.....	37,385	37,465	37,656	-0.2	-0.5	1.0	37,447	37,649	37,101	0.9
Total Inventories.....	9,310	9,531	10,498	-2.3	-9.2	1.7	9,216	9,175	9,530	-3.3
Semiconductors:										
Unfilled Orders <sup>4</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Total Inventories <sup>4</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Electrical equipment, appliances, and components:										
Unfilled Orders.....	20,149	20,102	20,343	0.2	-1.2	-1.7	20,536	20,165	25,613	-19.8
Total Inventories.....	12,878	12,934	13,194	-0.4	-2.0	-1.5	12,891	12,840	15,206	-15.2
Transportation equipment:										
Unfilled Orders.....	433,978	433,563	439,316	0.1	-1.3	0.0	430,391	432,682	460,643	-6.6
Total Inventories.....	93,944	93,253	93,206	0.7	0.1	-0.3	94,538	92,164	88,987	6.2
Motor vehicles and parts:										
Unfilled Orders.....	14,002	14,586	14,761	-4.0	-1.2	-0.6	14,316	14,445	17,591	-18.6
Total Inventories.....	18,662	18,776	18,930	-0.6	-0.8	-2.0	18,847	18,471	23,635	-20.3
Nondefense Aircraft and parts:										
Unfilled Orders.....	285,883	284,415	287,297	0.5	-1.0	-0.3	283,352	283,365	304,844	-7.1
Total Inventories.....	48,176	47,664	47,121	1.1	1.2	0.2	48,473	47,004	39,539	22.6
Defense Aircraft and parts:										
Unfilled Orders.....	48,324	48,185	47,310	0.3	1.8	-0.5	48,154	48,383	45,303	6.3
Total Inventories.....	15,791	15,531	15,482	1.7	0.3	-0.4	15,869	15,604	14,391	10.3
All other durable goods:										
Unfilled Orders.....	11,249	11,232	11,388	0.2	-1.4	-2.3	11,609	11,571	13,712	-15.3
Total Inventories.....	50,018	50,646	51,311	-1.2	-1.3	-1.1	50,055	50,303	53,921	-7.2
Capital goods: <sup>3</sup>										
Unfilled Orders.....	567,734	567,843	573,712	0.0	-1.0	-0.2	564,154	567,474	615,062	-8.3
Total Inventories.....	158,640	159,517	161,417	-0.5	-1.2	-0.7	158,667	157,425	158,374	0.2
Nondefense capital goods:										
Unfilled Orders.....	426,233	425,674	429,220	0.1	-0.8	-0.6	424,261	424,883	477,362	-11.1
Total Inventories.....	138,461	139,487	141,161	-0.7	-1.2	-0.8	138,542	137,463	139,086	-0.4
Excluding aircraft:										
Unfilled Orders.....	175,481	176,474	177,042	-0.6	-0.3	-1.0	175,926	176,846	204,893	-14.1
Total Inventories.....	100,029	101,380	103,585	-1.3	-2.1	-1.2	99,857	99,885	108,082	-7.6
Defense capital goods:										
Unfilled Orders.....	141,501	142,169	144,492	-0.5	-1.6	1.2	139,893	142,591	137,700	1.6
Total Inventories.....	20,179	20,030	20,256	0.7	-1.1	-0.1	20,125	19,962	19,288	4.3

See footnotes at end of Table 1

## 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 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 61 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>.