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## Advance Report on Durable Goods Manufacturers' Shipments, Inventories and Orders July 2010

### New Orders

New orders for manufactured durable goods in July increased \$0.6 billion or 0.3 percent to \$193.0 billion, the U.S. Census Bureau announced today. This increase followed two consecutive monthly decreases including a 0.1 percent June decrease. Excluding transportation, new orders decreased 3.8 percent. Excluding defense, new orders increased 0.3 percent.

Transportation equipment, also up following two consecutive monthly decreases, had the largest increase, \$6.1 billion or 13.1 percent to \$52.6 billion. This was due to nondefense aircraft and parts, which increased \$4.0 billion.

### Shipments

Shipments of manufactured durable goods in July, up four of the last five months, increased \$4.4 billion or 2.2 percent to \$200.6 billion. This followed a 0.2 percent June increase.

Transportation equipment, also up four of the last five months, had the largest increase, \$3.4 billion or 6.9 percent to \$52.7 billion.

### Unfilled Orders

Unfilled orders for manufactured durable goods in July, down following three consecutive monthly increases, decreased \$1.1 billion or 0.1 percent to \$802.8 billion. This followed a 0.1 percent June increase.

Computers and electronic products, down following four consecutive monthly increases, had the largest decrease, \$0.5 billion or 0.4 percent to \$121.1 billion.

### Inventories

Inventories of manufactured durable goods in July, up seven consecutive months, increased \$1.8 billion or 0.6 percent to \$311.2 billion. This followed a 1.3 percent June increase.

Machinery, up five consecutive months, had the largest increase, \$0.9 billion or 1.9 percent to \$51.4 billion.

### Capital Goods

Nondefense new orders for capital goods in July decreased \$1.8 billion or 2.8 percent to \$64.1 billion. Shipments increased \$0.9 billion or 1.4 percent to \$64.7 billion. Unfilled orders decreased \$0.6 billion or 0.1 percent to \$487.2 billion. Inventories increased \$1.0 billion or 0.8 percent to \$129.8 billion.

Defense new orders for capital goods in July decreased \$0.2 billion or 2.2 percent to \$9.5 billion. Shipments decreased \$0.2 billion or 2.4 percent to \$9.5 billion. Unfilled orders decreased slightly to \$139.7 billion. Inventories increased slightly or 0.1 percent to \$17.9 billion.

### Revised June Data

Revised seasonally adjusted June figures for all manufacturing industries were: new orders, \$408.6 billion (revised from \$406.4 billion); shipments, \$412.4 billion (revised from \$411.2 billion); unfilled orders, \$803.9 billion (revised from \$802.8 billion); and total inventories, \$520.7 billion (revised from \$520.0 billion).

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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>>.

Revised and more detailed estimates, plus nondurable goods data, will be published on September 2, 2010, at 10:00 a.m. EDT. The advance report on durable goods for August is scheduled for release on September 24, 2010, at 8:30 a.m. EDT. See back page for survey description.

Table 1. Durable Goods Manufacturers' Shipments and New Orders<sup>1</sup>

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

Item	Seasonally Adjusted						Not Seasonally Adjusted					
	Monthly			Percent Change			Monthly			Year to Date		
	Jul 2010 <sup>2</sup>	Jun 2010 <sup>f</sup>	May 2010	Jun - Jul <sup>2</sup>	May - Jun <sup>f</sup>	Apr - May	Jul 2010 <sup>2</sup>	Jun 2010 <sup>f</sup>	Jul 2009	2010	2009	Change 10/09
<b>DURABLE GOODS</b>												
<b>Total:</b>												
Shipments .....	200,625	196,260	195,799	2.2	0.2	-0.7	187,487	211,231	172,764	1,345,219	1,244,848	8.1
New Orders <sup>4</sup> .....	193,018	192,450	192,620	0.3	-0.1	-0.7	176,308	206,139	162,292	1,314,759	1,137,388	15.6
<b>Excluding transportation:</b>												
Shipments .....	147,932	146,985	148,481	0.6	-1.0	-0.1	145,415	157,907	134,234	1,013,630	927,353	9.3
New Orders <sup>4</sup> .....	140,411	145,919	145,596	-3.8	0.2	1.4	136,379	156,653	125,731	991,796	866,098	14.5
<b>Excluding defense:</b>												
Shipments .....	188,553	184,027	183,465	2.5	0.3	-0.2	176,526	198,127	160,531	1,256,272	1,155,851	8.7
New Orders <sup>4</sup> .....	180,842	180,297	179,898	0.3	0.2	-0.6	167,116	193,545	152,554	1,226,640	1,054,674	16.3
<b>Manufacturing with unfilled orders:</b>												
Shipments .....	145,179	143,985	143,024	0.8	0.7	-0.2	135,116	156,377	124,283	980,173	905,476	8.2
New Orders .....	144,078	144,789	145,154	-0.5	-0.3	-0.9	132,133	154,562	120,753	989,830	830,816	19.1
<b>Primary metals:</b>												
Shipments .....	19,834	19,848	20,105	-0.1	-1.3	0.3	19,560	21,397	14,806	138,227	101,058	36.8
New Orders .....	19,517	19,373	20,065	0.7	-3.4	-0.4	19,635	20,768	15,348	140,107	97,474	43.7
<b>Fabricated metal products:</b>												
Shipments .....	27,225	27,473	27,631	-0.9	-0.6	0.3	26,922	29,336	25,834	188,218	179,716	4.7
New Orders .....	27,265	27,530	27,046	-1.0	1.8	-2.4	26,783	28,543	25,009	190,600	172,068	10.8
<b>Machinery:</b>												
Shipments .....	24,106	25,260	24,817	-4.6	1.8	3.3	23,124	27,369	21,541	170,053	164,001	3.7
New Orders .....	24,134	28,380	27,209	-15.0	4.3	11.1	23,365	30,018	21,074	179,652	151,060	18.9
<b>Computers and electronic products<sup>4</sup>:</b>												
Shipments .....	33,775	31,623	32,664	6.8	-3.2	-2.9	33,055	33,250	30,145	221,705	197,674	12.2
New Orders .....	26,744	27,414	27,733	-2.4	-1.2	0.3	23,982	30,169	22,110	180,917	162,193	11.5
<b>Computers and related products:</b>												
Shipments .....	5,934	6,037	5,981	-1.7	0.9	-1.2	5,874	6,961	5,667	39,513	35,923	10.0
New Orders .....	5,523	6,327	6,276	-12.7	0.8	4.5	5,463	7,251	5,091	39,415	34,392	14.6
<b>Communications equipment:</b>												
Shipments .....	3,527	3,464	3,694	1.8	-6.2	-4.9	3,114	4,173	3,387	24,260	24,269	0.0
New Orders .....	3,355	3,228	3,182	3.9	1.4	-11.9	2,892	3,667	3,332	22,910	24,888	-7.9
<b>Electrical equipment, appliances, and components:</b>												
Shipments .....	9,524	9,510	9,445	0.1	0.7	-0.9	9,298	10,375	8,742	65,198	62,308	4.6
New Orders .....	9,488	10,081	9,714	-5.9	3.8	-0.5	9,445	11,041	9,001	68,964	61,068	12.9
<b>Transportation equipment:</b>												
Shipments .....	52,693	49,275	47,318	6.9	4.1	-2.3	42,072	53,324	38,530	331,589	317,495	4.4
New Orders .....	52,607	46,531	47,024	13.1	-1.0	-6.6	39,929	49,486	36,561	322,963	271,290	19.0
<b>Motor vehicles and parts:</b>												
Shipments .....	32,869	31,212	29,783	5.3	4.8	1.6	25,119	32,780	21,076	203,130	179,302	13.3
New Orders .....	32,539	30,909	29,725	5.3	4.0	1.7	24,931	32,354	20,901	202,015	177,942	13.5
<b>Nondefense aircraft and parts:</b>												
Shipments .....	8,567	6,643	6,193	29.0	7.3	-10.6	7,069	8,130	6,442	46,784	54,055	-13.5
New Orders .....	9,306	5,291	7,084	75.9	-25.3	-30.2	6,912	6,156	6,672	45,116	23,013	96.0
<b>Defense aircraft and parts:</b>												
Shipments .....	5,016	5,217	5,037	-3.9	3.6	-10.0	4,489	5,807	4,678	36,662	35,324	3.8
New Orders .....	4,855	5,295	5,011	-8.3	5.7	-5.1	4,067	5,941	4,572	36,861	35,593	3.6
<b>All other durable goods:</b>												
Shipments .....	33,468	33,271	33,819	0.6	-1.6	-0.2	33,456	36,180	33,166	230,229	222,596	3.4
New Orders .....	33,263	33,141	33,829	0.4	-2.0	-0.2	33,169	36,114	33,189	231,556	222,235	4.2
<b>Capital goods<sup>3</sup>:</b>												
Shipments .....	74,230	73,545	72,565	0.9	1.4	-0.6	68,992	80,466	65,399	501,510	482,671	3.9
New Orders .....	73,610	75,662	75,480	-2.7	0.2	-0.8	66,035	80,752	61,308	506,276	421,185	20.2
<b>Nondefense capital goods:</b>												
Shipments .....	64,735	63,812	62,640	1.4	1.9	0.3	60,315	70,235	55,412	429,729	410,621	4.7
New Orders .....	64,139	65,974	65,218	-2.8	1.2	-0.4	59,158	70,951	53,931	435,832	354,961	22.8
<b>Excluding aircraft:</b>												
Shipments .....	59,001	59,900	59,295	-1.5	1.0	1.6	55,788	65,361	51,596	402,312	376,741	6.8
New Orders .....	58,234	63,288	61,094	-8.0	3.6	4.7	55,254	67,685	49,749	409,990	353,948	15.8
<b>Defense capital goods:</b>												
Shipments .....	9,495	9,733	9,925	-2.4	-1.9	-6.2	8,677	10,231	9,987	71,781	72,050	-0.4
New Orders .....	9,471	9,688	10,262	-2.2	-5.6	-3.4	6,877	9,801	7,377	70,444	66,224	6.4

<sup>1</sup> Revised data due to late receipts and concurrent seasonal adjustment.<sup>2</sup> 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.<sup>3</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. For further details on survey design, methodology, and data limitations, see <http://www.census.gov/manufacturing/m3>.<sup>4</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>5</sup> Estimates of shipments for the semiconductor industry are no longer shown separately. Estimates and percent changes of shipments and inventories for the semiconductor industry are included in computers and electronic products, and all other applicable aggregate totals. Estimates and percent changes for new orders and unfilled orders exclude semiconductor industry data.

Table 2. Durable Goods Manufacturers' Unfilled Orders and Total Inventories<sup>1</sup>

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

Item	Seasonally Adjusted						Not Seasonally Adjusted			
	Monthly			Percent Change			Monthly			Percent
	Jul 2010 <sup>2</sup>	Jun 2010 <sup>r</sup>	May 2010	Jun - Jul <sup>2</sup>	May - Jun <sup>r</sup>	Apr - May	Jul 2010 <sup>2</sup>	Jun 2010 <sup>r</sup>	Jul 2009	2010/2009
<b>DURABLE GOODS</b>										
<b>Total:</b>										
Unfilled Orders <sup>4</sup> .....	802,781	803,882	803,078	-0.1	0.1	0.3	802,343	805,326	817,990	-1.9
Total Inventories.....	311,202	309,446	305,591	0.6	1.3	1.2	313,206	307,868	305,364	2.6
<b>Excluding transportation:</b>										
Unfilled Orders <sup>4</sup> .....	326,097	327,112	323,564	-0.3	1.1	0.8	328,012	328,852	314,236	4.4
Total Inventories.....	231,159	229,366	226,418	0.8	1.3	1.3	231,875	228,015	225,405	2.9
<b>Excluding defense:</b>										
Unfilled Orders <sup>4</sup> .....	649,237	650,442	649,558	-0.2	0.1	0.3	649,619	650,833	655,959	-1.0
Total Inventories.....	287,997	286,309	282,505	0.6	1.3	1.4	290,030	284,820	282,306	2.7
<b>Manufacturing with unfilled orders:</b>										
Unfilled Orders.....	802,781	803,882	803,078	-0.1	0.1	0.3	802,343	805,326	817,990	-1.9
Total Inventories.....	252,942	251,287	248,014	0.7	1.3	1.1	254,788	250,057	246,285	3.5
<b>Primary metals:</b>										
Unfilled Orders.....	17,789	18,106	18,581	-1.8	-2.6	-0.2	18,251	18,176	16,352	11.6
Total Inventories.....	31,045	30,898	30,669	0.5	0.7	3.0	31,221	30,768	27,018	15.6
<b>Fabricated metal products:</b>										
Unfilled Orders.....	53,827	53,787	53,730	0.1	0.1	-1.1	54,456	54,595	54,465	0.0
Total Inventories.....	42,076	41,810	41,188	0.6	1.5	0.8	42,330	41,693	40,771	3.8
<b>Machinery:</b>										
Unfilled Orders.....	96,638	96,610	93,490	0.0	3.3	2.6	96,765	96,524	87,517	10.6
Total Inventories.....	51,383	50,446	50,000	1.9	0.9	0.8	51,214	50,019	51,804	-1.1
<b>Computers and electronic products<sup>4</sup>:</b>										
Unfilled Orders.....	121,070	121,595	121,190	-0.4	0.3	0.3	120,838	121,715	122,164	-1.1
Total Inventories.....	45,485	45,202	44,092	0.6	2.5	1.5	45,596	44,583	43,829	4.0
<b>Computers and related products:</b>										
Unfilled Orders.....	5,273	5,684	5,394	-7.2	5.4	5.8	5,273	5,684	3,987	32.3
Total Inventories.....	4,932	4,962	4,690	-0.6	5.8	4.5	4,868	4,908	4,286	13.6
<b>Communications equipment:</b>										
Unfilled Orders.....	27,490	27,662	27,898	-0.6	-0.8	-1.8	27,424	27,646	29,131	-5.9
Total Inventories.....	8,069	7,936	7,627	1.7	4.1	1.4	7,997	7,680	7,609	5.1
<b>Electrical equipment, appliances, and components:</b>										
Unfilled Orders.....	24,316	24,352	23,781	-0.1	2.4	1.1	24,867	24,720	22,049	12.8
Total Inventories.....	14,276	14,179	13,906	0.7	2.0	1.8	14,431	14,181	14,209	1.6
<b>Transportation equipment:</b>										
Unfilled Orders.....	476,684	476,770	479,514	0.0	-0.6	-0.1	474,331	476,474	503,754	-5.8
Total Inventories.....	80,043	80,080	79,173	0.0	1.1	0.9	81,331	79,853	79,959	1.7
<b>Motor vehicles and parts:</b>										
Unfilled Orders.....	13,456	13,786	14,089	-2.4	-2.2	-0.4	13,533	13,721	14,868	-9.0
Total Inventories.....	20,903	20,759	20,480	0.7	1.4	2.0	21,021	20,338	18,378	14.4
<b>Nondefense Aircraft and parts:</b>										
Unfilled Orders.....	323,587	322,848	324,200	0.2	-0.4	0.3	321,897	322,054	334,976	-3.9
Total Inventories.....	36,444	36,500	36,039	-0.2	1.3	1.3	37,556	36,802	36,624	2.5
<b>Defense Aircraft and parts:</b>										
Unfilled Orders.....	47,767	47,928	47,850	-0.3	0.2	-0.1	47,947	48,369	51,302	-6.5
Total Inventories.....	12,107	12,033	12,142	0.6	-0.9	-0.4	12,165	12,059	12,327	-1.3
<b>All other durable goods:</b>										
Unfilled Orders.....	12,457	12,662	12,792	-1.6	-1.0	0.1	12,835	13,122	11,689	9.8
Total Inventories.....	46,894	46,831	46,563	0.1	0.6	0.9	47,083	46,771	47,774	-1.4
<b>Capital goods<sup>3</sup>:</b>										
Unfilled Orders.....	626,980	627,600	625,483	-0.1	0.3	0.5	625,218	628,175	643,979	-2.9
Total Inventories.....	147,671	146,601	144,726	0.7	1.3	0.9	148,716	146,047	146,680	1.4
<b>Nondefense capital goods:</b>										
Unfilled Orders.....	487,248	487,844	485,682	-0.1	0.4	0.5	486,272	487,429	496,135	-2.0
Total Inventories.....	129,759	128,712	126,883	0.8	1.4	1.2	130,891	128,273	128,986	1.5
<b>Excluding aircraft:</b>										
Unfilled Orders.....	193,913	194,680	191,292	-0.4	1.8	0.9	194,540	195,074	191,073	1.8
Total Inventories.....	101,596	100,441	99,077	1.1	1.4	1.1	101,655	99,591	101,001	0.6
<b>Defense capital goods:</b>										
Unfilled Orders.....	139,732	139,756	139,801	0.0	0.0	0.2	138,946	140,746	147,844	-6.0
Total Inventories.....	17,912	17,889	17,843	0.1	0.3	-0.8	17,825	17,774	17,694	0.7

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 64 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>.