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## Advance Report on Durable Goods Manufacturers' Shipments, Inventories and Orders July 2016

### New Orders

New orders for manufactured durable goods in July increased \$9.7 billion or 4.4 percent to \$228.9 billion, the U.S. Census Bureau announced today. This increase, up following two consecutive monthly decreases, followed a 4.2 percent June decrease. Excluding transportation, new orders increased 1.5 percent. Excluding defense, new orders increased 3.8 percent.

Transportation equipment, also up following two consecutive monthly decreases, led the increase, \$7.5 billion or 10.5 percent to \$78.9 billion.

### Shipments

Shipments of manufactured durable goods in July, up three of the last four months, increased \$0.4 billion or 0.2 percent to \$232.9 billion. This followed a 0.5 percent June increase.

Computers and electronic products, up four consecutive months, drove the increase, \$0.4 billion or 1.5 percent to \$27.1 billion.

### Unfilled Orders

Unfilled orders for manufactured durable goods in July, down two consecutive months, decreased \$0.8 billion or 0.1 percent to \$1,126.6 billion. This followed a 0.9 percent June decrease.

Transportation equipment, also down two consecutive months, drove the decrease, \$1.9 billion or 0.2 percent to \$772.2 billion.

### Inventories

Inventories of manufactured durable goods in July, up following six consecutive monthly decreases, increased \$1.2 billion or 0.3 percent to \$383.0 billion. This followed a 0.1 percent June decrease.

Transportation equipment, up following five consecutive monthly decreases, led the increase, \$0.5 billion or 0.4 percent to \$123.7 billion.

### Capital Goods

Nondefense new orders for capital goods in July increased \$6.6 billion or 10.2 percent to \$71.6 billion. Shipments increased less than \$0.1 billion or virtually unchanged to \$71.7 billion. Unfilled orders decreased \$0.1 billion or virtually unchanged to \$700.8 billion. Inventories decreased \$0.3 billion or 0.2 percent to \$169.1 billion.

Defense new orders for capital goods in July increased \$2.5 billion or 35.7 percent to \$9.6 billion. Shipments increased \$0.1 billion or 1.1 percent to \$10.3 billion. Unfilled orders decreased \$0.8 billion or 0.6 percent to \$136.0 billion. Inventories increased \$0.8 billion or 3.9 percent to \$21.1 billion.

### Revised June Data

Revised seasonally adjusted June figures for all manufacturing industries were: new orders, \$447.0 billion (revised from \$447.4 billion); shipments, \$460.2 billion (revised from \$460.0 billion); unfilled orders, \$1,127.4 billion (revised from \$1,128.0 billion); and total inventories, \$619.6 billion (revised from \$619.1 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, 2016, at 10:00 a.m. EDT. The Advance Report on durable goods for August is scheduled for release on September 28, 2016 at 8:30 a.m. EDT. See back page for survey description. To receive the latest updates on the Nation's key economic indicators, download the America's Economy app for Apple and Android smartphones and tablets. To learn more about this release and the other indicators the U.S. Census Bureau publishes, join us for the Investigating Economic Indicators Webinar Series. For more information, visit [www.census.gov/econ/webinar](http://www.census.gov/econ/webinar).

“Virtually unchanged” indicates that the change is less than 0.05 percent for a percent increase or decrease.

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 2016 <sup>2</sup>	Jun 2016 <sup>f</sup>	May 2016	Jun - Jul <sup>2</sup>	May - Jun <sup>f</sup>	Apr - May	Jul 2016 <sup>2</sup>	Jun 2016 <sup>f</sup>	Jul 2015	2016	2015	Percent Change 2016/2015
<b>DURABLE GOODS</b>												
<b>Total:</b>												
Shipments.....	232,856	232,497	231,421	0.2	0.5	-0.3	213,638	254,081	225,288	1,613,165	1,631,198	-1.1
New Orders <sup>4</sup> .....	228,904	219,241	228,827	4.4	-4.2	-2.9	208,114	241,269	222,304	1,578,375	1,592,640	-0.9
<b>Excluding transportation:</b>												
Shipments.....	152,072	151,417	151,372	0.4	0.0	-0.3	146,184	164,366	152,151	1,055,524	1,078,969	-2.2
New Orders <sup>4</sup> .....	150,043	147,853	148,237	1.5	-0.3	-0.5	142,661	159,453	147,253	1,046,016	1,061,314	-1.4
<b>Excluding defense:</b>												
Shipments.....	220,511	220,067	219,351	0.2	0.3	-0.7	202,672	240,180	213,746	1,530,202	1,550,438	-1.3
New Orders <sup>4</sup> .....	216,758	208,764	217,471	3.8	-4.0	-1.6	198,492	226,679	211,889	1,494,706	1,517,988	-1.5
<b>Manufacturing with unfilled orders:</b>												
Shipments.....	165,852	165,509	165,049	0.2	0.3	0.7	152,892	181,824	159,946	1,141,752	1,156,326	-1.3
New Orders.....	165,028	155,332	165,438	6.2	-6.1	-2.9	150,922	171,625	160,391	1,128,180	1,139,826	-1.0
<b>Primary metals:</b>												
Shipments.....	18,086	17,895	17,614	1.1	1.6	-0.1	17,361	18,792	18,678	125,477	140,510	-10.7
New Orders.....	17,869	17,614	17,783	1.4	-1.0	-1.3	17,071	18,389	18,341	127,507	140,564	-9.3
<b>Fabricated metal products:</b>												
Shipments.....	30,185	29,841	29,973	1.2	-0.4	-0.1	29,280	31,860	29,577	208,513	207,632	0.4
New Orders.....	30,435	29,972	29,889	1.5	0.3	-0.7	29,631	31,369	29,679	212,504	208,871	1.7
<b>Machinery:</b>												
Shipments.....	29,719	29,958	30,142	-0.8	-0.6	-1.3	27,913	32,688	31,374	213,288	228,065	-6.5
New Orders.....	29,867	29,400	29,313	1.6	0.3	0.2	27,909	31,321	30,396	211,275	224,091	-5.7
<b>Computers and electronic products<sup>4</sup>:</b>												
Shipments.....	27,056	26,647	26,541	1.5	0.4	0.6	25,321	30,117	24,758	180,847	175,385	3.1
New Orders.....	24,780	23,908	24,166	3.6	-1.1	-0.9	22,167	27,604	21,674	164,951	159,348	3.5
<b>Computers and related products:</b>												
Shipments.....	1,947	1,759	1,854	10.7	-5.1	-3.1	1,535	2,550	1,729	12,340	14,752	-16.4
New Orders.....	1,932	1,751	1,860	10.3	-5.9	-2.5	1,520	2,542	1,694	12,281	14,862	-17.4
<b>Communications equipment:</b>												
Shipments.....	3,385	3,558	3,376	-4.9	5.4	3.3	2,979	4,332	3,000	22,840	23,096	-1.1
New Orders.....	3,697	3,736	3,744	-1.0	-0.2	5.6	3,127	4,349	3,371	24,995	25,779	-3.0
<b>Electrical equipment, appliances, and components:</b>												
Shipments.....	9,563	9,459	9,434	1.1	0.3	-0.3	9,151	10,284	9,971	65,467	71,266	-8.1
New Orders.....	9,702	9,452	9,388	2.6	0.7	-0.5	8,974	10,317	9,654	66,607	71,387	-6.7
<b>Transportation equipment:</b>												
Shipments.....	80,784	81,080	80,049	-0.4	1.3	-0.4	67,454	89,715	73,137	557,641	552,229	1.0
New Orders.....	78,861	71,388	80,590	10.5	-11.4	-7.1	65,453	81,816	75,051	532,359	531,326	0.2
<b>Motor vehicles and parts:</b>												
Shipments.....	54,929	55,033	53,591	-0.2	2.7	-3.5	45,360	59,201	48,533	382,836	370,276	3.4
New Orders.....	54,723	54,747	53,659	0.0	2.0	-3.2	44,768	58,472	48,055	380,455	369,160	3.1
<b>Nondefense aircraft and parts:</b>												
Shipments.....	14,094	13,862	14,543	1.7	-4.7	6.8	11,953	16,843	12,082	92,663	95,109	-2.6
New Orders.....	12,498	6,583	16,341	89.9	-59.7	-5.6	11,632	9,228	16,144	71,490	84,025	-14.9
<b>Defense aircraft and parts:</b>												
Shipments.....	4,013	4,153	4,298	-3.4	-3.4	20.7	3,443	4,926	4,546	28,421	31,937	-11.0
New Orders.....	4,378	3,640	3,940	20.3	-7.6	-30.0	3,314	5,634	3,366	30,548	26,773	14.1
<b>All other durable goods:</b>												
Shipments.....	37,463	37,617	37,668	-0.4	-0.1	-0.3	37,158	40,625	37,793	261,932	256,111	2.3
New Orders.....	37,390	37,507	37,698	-0.3	-0.5	-0.3	36,909	40,453	37,509	263,172	257,053	2.4
<b>Capital goods<sup>3</sup>:</b>												
Shipments.....	81,990	81,860	82,532	0.2	-0.8	1.2	74,637	91,595	80,958	562,642	587,772	-4.3
New Orders.....	81,162	72,028	82,084	12.7	-12.3	-6.0	73,034	83,089	82,685	549,227	575,870	-4.6
<b>Nondefense capital goods:</b>												
Shipments.....	71,673	71,659	72,641	0.0	-1.4	1.0	65,397	80,460	71,622	494,645	523,438	-5.5
New Orders.....	71,610	64,988	72,920	10.2	-10.9	-1.7	65,454	73,115	73,940	480,303	514,492	-6.6
<b>Excluding aircraft:</b>												
Shipments.....	62,319	62,600	62,921	-0.4	-0.5	-0.7	57,613	69,312	63,638	436,309	460,371	-5.2
New Orders.....	63,447	62,438	62,153	1.6	0.5	-0.6	57,876	68,293	62,330	440,896	460,585	-4.3
<b>Defense capital goods:</b>												
Shipments.....	10,317	10,201	9,891	1.1	3.1	3.0	9,240	11,135	9,336	67,997	64,334	5.7
New Orders.....	9,552	7,040	9,164	35.7	-23.2	-30.1	7,580	9,974	8,745	68,924	61,378	12.3

<sup>f</sup> Revised data due to late receipts and concurrent seasonal adjustment.<sup>1</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>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. For further details on survey design, methodology, and data limitations, see <http://www.census.gov/manufacturing/m3>.<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> 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 Change 2016/ 2015
	Jul 2016 <sup>2</sup>	Jun 2016 <sup>1</sup>	May 2016	Jun - Jul <sup>2</sup>	May - Jun <sup>1</sup>	Apr - May	Jul 2016 <sup>2</sup>	Jun 2016 <sup>1</sup>	Jul 2015	
<b><u>DURABLE GOODS</u></b>										
<b>Total:</b>										
Unfilled Orders <sup>4</sup> .....	1,126,550	1,127,374	1,137,551	-0.1	-0.9	0.0	1,126,128	1,128,098	1,151,069	-2.2
Total Inventories.....	382,968	381,784	382,258	0.3	-0.1	-0.4	386,202	379,095	396,577	-2.6
<b>Excluding transportation:</b>										
Unfilled Orders <sup>4</sup> .....	354,349	353,250	353,735	0.3	-0.1	0.0	356,552	356,521	355,879	0.2
Total Inventories.....	259,300	258,630	258,082	0.3	0.2	-0.3	261,510	257,220	269,978	-3.1
<b>Excluding defense:</b>										
Unfilled Orders <sup>4</sup> .....	953,581	954,206	962,430	-0.1	-0.9	0.1	952,205	952,831	974,049	-2.2
Total Inventories.....	357,128	356,694	356,577	0.1	0.0	-0.4	360,032	353,743	369,695	-2.6
<b>Manufacturing with unfilled orders:</b>										
Unfilled Orders.....	1,126,550	1,127,374	1,137,551	-0.1	-0.9	0.0	1,126,128	1,128,098	1,151,069	-2.2
Total Inventories.....	310,923	309,844	311,162	0.3	-0.4	-0.4	314,195	308,216	324,700	-3.2
<b>Primary metals:</b>										
Unfilled Orders.....	32,241	32,458	32,739	-0.7	-0.9	0.5	32,643	32,933	33,169	-1.6
Total Inventories.....	31,550	31,375	31,235	0.6	0.4	-0.1	31,698	31,005	35,733	-11.3
<b>Fabricated metal products:</b>										
Unfilled Orders.....	74,180	73,930	73,799	0.3	0.2	-0.1	75,438	75,087	75,353	0.1
Total Inventories.....	49,212	48,789	48,568	0.9	0.5	0.0	49,560	48,707	49,873	-0.6
<b>Machinery:</b>										
Unfilled Orders.....	93,017	92,869	93,427	0.2	-0.6	-0.9	92,943	92,947	99,743	-6.8
Total Inventories.....	65,286	65,613	65,400	-0.5	0.3	-0.8	65,906	65,118	69,322	-4.9
<b>Computers and electronic products<sup>4</sup>:</b>										
Unfilled Orders.....	129,316	128,464	128,124	0.7	0.3	0.5	129,513	129,113	122,390	5.8
Total Inventories.....	42,478	42,691	42,714	-0.5	-0.1	-0.2	43,068	42,356	43,999	-2.1
<b>Computers and related products:</b>										
Unfilled Orders.....	2,388	2,403	2,411	-0.6	-0.3	0.2	2,388	2,403	2,390	-0.1
Total Inventories.....	3,554	3,582	3,573	-0.8	0.3	-0.6	3,708	3,546	4,066	-8.8
<b>Communications equipment:</b>										
Unfilled Orders.....	34,931	34,619	34,441	0.9	0.5	1.1	34,917	34,769	31,686	10.2
Total Inventories.....	4,554	4,601	4,690	-1.0	-1.9	0.2	4,555	4,524	5,079	-10.3
<b>Electrical equipment, appliances, and components:</b>										
Unfilled Orders.....	17,418	17,279	17,286	0.8	0.0	-0.3	17,443	17,620	16,873	3.4
Total Inventories.....	16,297	16,165	16,289	0.8	-0.8	-0.3	16,608	16,176	17,108	-2.9
<b>Transportation equipment:</b>										
Unfilled Orders.....	772,201	774,124	783,816	-0.2	-1.2	0.1	769,576	771,577	795,190	-3.2
Total Inventories.....	123,668	123,154	124,176	0.4	-0.8	-0.6	124,692	121,875	126,599	-1.5
<b>Motor vehicles and parts:</b>										
Unfilled Orders.....	21,923	22,129	22,415	-0.9	-1.3	0.3	21,178	21,770	22,879	-7.4
Total Inventories.....	34,897	34,954	33,738	-0.2	3.6	-0.2	35,023	33,934	34,845	0.5
<b>Nondefense Aircraft and parts:</b>										
Unfilled Orders.....	592,092	593,688	600,967	-0.3	-1.2	0.3	589,463	589,784	604,815	-2.5
Total Inventories.....	62,077	62,357	63,833	-0.4	-2.3	-0.9	62,616	61,957	63,979	-2.1
<b>Defense Aircraft and parts:</b>										
Unfilled Orders.....	70,722	70,357	70,870	0.5	-0.7	-0.5	70,745	70,874	64,842	9.1
Total Inventories.....	11,519	10,742	11,131	7.2	-3.5	-2.9	11,605	10,744	11,896	-2.4
<b>All other durable goods:</b>										
Unfilled Orders.....	8,177	8,250	8,360	-0.9	-1.3	0.4	8,572	8,821	8,351	2.6
Total Inventories.....	54,477	53,997	53,876	0.9	0.2	0.0	54,670	53,858	53,943	1.3
<b>Capital goods<sup>3</sup>:</b>										
Unfilled Orders.....	836,826	837,654	847,486	-0.1	-1.2	-0.1	837,461	839,064	870,708	-3.8
Total Inventories.....	190,202	189,692	191,485	0.3	-0.9	-0.6	192,349	189,183	199,159	-3.4
<b>Nondefense capital goods:</b>										
Unfilled Orders.....	700,820	700,883	707,554	0.0	-0.9	0.0	700,130	700,073	727,703	-3.8
Total Inventories.....	169,112	169,386	170,690	-0.2	-0.8	-0.7	171,015	168,617	177,144	-3.5
<b>Excluding aircraft:</b>										
Unfilled Orders.....	221,409	220,281	220,443	0.5	-0.1	-0.3	222,273	222,010	225,993	-1.6
Total Inventories.....	118,268	118,126	117,990	0.1	0.1	-0.5	119,620	117,431	123,821	-3.4
<b>Defense capital goods:</b>										
Unfilled Orders.....	136,006	136,771	139,932	-0.6	-2.3	-0.5	137,331	138,991	143,005	-4.0
Total Inventories.....	21,090	20,306	20,795	3.9	-2.4	-0.4	21,334	20,566	22,015	-3.1

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, which is a voluntary survey authorized by Title 13 of the United States Code. This survey provides statistics on a calendar-month basis for 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). Data published from the M3 survey are based on a panel of approximately 4,800 reporting units that represent approximately 3,000 companies and provide an indication of month-to-month change for the Manufacturing Sector. These reporting units may be divisions of diversified large companies, large homogenous companies, or single-unit manufacturers in 92 industry categories, which are combined into 65 publication levels due to the small monthly panel size. The survey methodology assumes that the month-to-month changes of the total operations of the reporting units in the M3 panel effectively represent the month-to-month movements of all establishments that make up the category.

The companies for which shipments data are currently reported or imputed in the M3 survey represent approximately 61 percent of the total value of shipments for manufacturing establishments in the 2012 Economic Census, and these companies include almost two-thirds of the manufacturing companies with \$500 million or more in shipments in the 2012 Economic Census. The companies for which shipments data are currently reported in the M3 survey represent approximately 54 percent of the total value of shipments for manufacturing establishments in the 2012 Economic Census. Statistics based on the M3 panel differ from the results that would be obtained from a complete enumeration of all manufacturing companies. The M3 panel is not based on 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>.