## FOR RELEASE AT 8:30 AM EST, WEDNESDAY, NOVEMBER 22, 2017

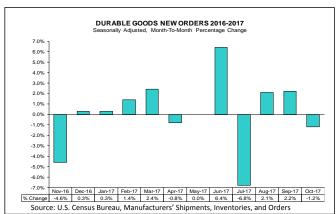
# MONTHLY ADVANCE REPORT ON MANUFACTURERS' SHIPMENTS, INVENTORIES AND ORDERS OCTOBER 2017

Release Number: CB 17-188 M3-1 (17)-10

**Notice:** For information on the impact of recent hurricanes on the compilation of this report, please see the Frequently Asked Questions document on our website.

**November 22, 2017** — The U.S. Census Bureau announces the October advance report on manufacturers' shipments, inventories and orders:





#### **New Orders**

New orders for manufactured durable goods in October decreased \$2.8 billion or 1.2 percent to \$236.0 billion, the U.S. Census Bureau announced today. This decrease, down following two consecutive monthly increases, followed a 2.2 percent September increase. Excluding transportation, new orders increased 0.4 percent. Excluding defense, new orders decreased 0.8 percent. Transportation equipment, also down following two consecutive monthly increases, drove the decrease, \$3.5 billion or 4.3 percent to \$77.1 billion.

#### **Shipments**

Shipments of manufactured durable goods in October, up five of the last six months, increased \$0.3 billion or 0.1 percent to \$241.0 billion. This followed a 1.0 percent September increase. Primary metals, up three of the last four months, led the increase, \$0.3 billion or 1.5 percent to \$19.9 billion.

#### **Unfilled Orders**

Unfilled orders for manufactured durable goods in October, down three of the last four months, decreased \$0.5 billion or virtually unchanged to \$1,134.6 billion. This followed a 0.2 percent September increase.

**Data Inquiries** 

Economic Indicators Division, Shipments, Inventories, and Orders Branch (M3) 301-763-4832

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Transportation equipment, also down three of the last four months, drove the decrease, \$2.0 billion or 0.3 percent to \$769.7 billion.

### **Inventories**

Inventories of manufactured durable goods in October, up fifteen of the last sixteen months, increased \$0.5 billion or 0.1 percent to \$404.1 billion. This followed a 0.6 percent September increase. Primary metals, also up fifteen of the last sixteen months, led the increase, \$0.1 billion or 0.4 percent to \$33.9 billion.

## **Capital Goods**

Nondefense new orders for capital goods in October decreased \$3.4 billion or 4.5 percent to \$72.3 billion. Shipments decreased \$1.4 billion or 1.9 percent to \$72.4 billion. Unfilled orders decreased \$0.1 billion or virtually unchanged to \$705.2 billion. Inventories increased less than \$0.1 billion or virtually unchanged to \$179.7 billion. Defense new orders for capital goods in October decreased \$1.1 billion or 9.6 percent to \$9.9 billion. Shipments increased \$0.3 billion or 2.4 percent to \$10.9 billion. Unfilled orders decreased \$0.9 billion or 0.7 percent to \$142.3 billion. Inventories increased \$0.2 billion or 1.0 percent to \$23.6 billion.

## **Revised September Data**

Revised seasonally adjusted September figures for all manufacturing industries were: new orders, \$479.1 billion (revised from \$478.5 billion); shipments, \$480.9 billion (revised from \$480.4 billion); unfilled orders, \$1,135.1 billion (revised from \$1,135.0 billion) and total inventories, \$660.6 billion (revised from \$660.8 billion).

Revised and more detailed estimates, plus nondurable goods data, will be published on December 4, 2017, at 10:00 a.m. EST. The Advance Report on durable goods for November is scheduled for release on December 22, 2017 at 8:30 a.m. EST. View the full schedule in the Economic Briefing Room:<a href="www.census.gov/economic-indicators/">www.census.gov/economic-indicators/</a>>. The full text and tables of this release can be found at <a href="www.census.gov/m3">www.census.gov/m3</a>>.

### **EXPLANATORY NOTES**

Figures in text are adjusted for seasonality, but not for inflation. Figures on new and unfilled orders exclude data for semiconductor manufacturing.

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

### **Description of the survey**

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

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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 5,000 reporting units that represent approximately 3,100 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-tomonth changes of the total operations of the reporting units in the M3 panel effectively represent the monthto-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 64 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 57 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: <www.census.gov/manufacturing/m3/how\_the\_data\_are\_collected/index.html>.

## **API**

The Census Bureau's application programming interface (API) lets developers create custom apps to reach new users and makes key demographic, socio-economic and housing statistics more accessible than ever before.

www.census.gov/developers/.

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## 2018 Release Dates for the M3 Survey

Survey month	Advance Report	Full Report			
	(8:30 a.m. release time)	(10:00 a.m. release time)			
Sep-17	Wed 10/25/2017	Fri 11/3/2017			
Oct-17	Wed 11/22/2017	Mon 12/4/2017			
Nov-17	Fri 12/22/2017	Fri 1/5/2018			
Dec-17	Fri 1/26/2018	Fri 2/2/2018			
Jan-18	Tue 2/27/2018	Tue 3/6/2018			
Feb-18	Fri 3/23/2018	Wed 4/4/2018			
Mar-18	Thu 4/26/2018	Thu 5/3/2018			
Apr-18	Fri 5/25/2018	Mon 6/4/2018			
May-18	Wed 6/27/2018	Tue 7/3/2018			
Jun-18	Thu 7/26/2018	Thu 8/2/2018			
Jul-18	Fri 8/24/2018	Thu 9/6/2018			
Aug-18	Thu 9/27/2018	Thu 10/4/2018			
Sep-18	Thu 10/25/2018	Fri 11/2/2018			
Oct-18	Wed 11/21/2018	Thu 12/6/2018			
Nov-18	Fri 12/21/2018	Not available at this time			

## Source:

 $\frac{https://www.whitehouse.gov/sites/whitehouse.gov/files/omb/reports/pei schedule release dates 2018 \ all \\ \underline{v2.pdf}$ 

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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.]

Estimates are shown in millions of dollar	s and are based on data from the Manufacturers' Shipments, Inventories, and Orders Survey.]  Seasonally Adjusted  Not Seasonally Adjusted											
	Monthly			Percent Change				Monthly	Seasonally /	Year to Date		
ltem	Oct 2017 <sup>2</sup>	Sep 2017 <sup>r</sup>	Aug 2017	Sep - Oct <sup>2</sup>	Aug - Sep <sup>r</sup>	Jul - Aug	Oct 2017 <sup>2</sup>	Sep 2017 <sup>r</sup>	Oct 2016	2017	2016	Percent Change 2017/2016
DURABLE GOODS												
Total:												
Shipments	240,963	240,643	238,196	0.1	1.0	0.7	246,228	252,332	230,310	2,375,028	2,289,528	3.7
New Orders <sup>4</sup>	236,006	238,814	233,709	-1.2	2.2	2.1	237,607	247,565	231,912	2,330,600	2,221,369	4.9
Excluding transportation:												
Shipments	161,846	161,164	159,564	0.4	1.0	1.2	164,585	168,135	152,383	1,586,812	1,507,671	5.2
New Orders <sup>4</sup>	158,865	158,169	156,481	0.4	1.1	0.8	159,544	163,368	147,062	1,558,194	1,472,194	5.8
Excluding defense:												
Shipments	228,047	227,959	225,781	0.0	1.0	0.7	233,633	238,377	219,054	2,253,881	2,176,715	3.5
New Orders <sup>4</sup>	224,499	226,197	220,987	-0.8	2.4	2.6	227,546	233,149	220,765	2,214,743	2,112,173	4.9
Manufacturing with unfilled orders:												
Shipments	169,306	169,714	167,588	-0.2	1.3	0.2	171,137	178,863	159,133	1,669,494	1,594,237	4.7
New Orders	168,815	172,496	167,549	-2.1	3.0	2.1	167,697	178,468	166,327	1,669,239	1,567,773	6.5
Primary metals:												
Shipments	19,924	19,639	19,655	1.5	-0.1	1.6	20,150	19,701	17,588	196,548	177,572	
New Orders	20,035	19,784	19,886	1.3	-0.5	1.3	20,187	18,949	17,933	197,296	177,800	11.0
Fabricated metal products:												
Shipments	32,545	32,409	32,182	0.4	0.7	1.2	33,709	33,543	30,810	321,149		7.4
New Orders	33,047	33,359	32,760	-0.9	1.8	0.4	33,452	33,873	30,370	327,726	299,648	9.4
Machinery:												
Shipments	32,091	32,153	31,599	-0.2	1.8	1.8	31,897	32,825	28,847	312,557	299,066	4.5
New Orders	32,167	31,984	31,856	0.6	0.4	0.0	32,058	31,726	28,946	316,875	296,626	6.8
Computers and electronic products <sup>4</sup> :												
Shipments	27,556	27,559	27,174	0.0	1.4	1.0	27,383	30,624	26,357	265,213		4.6
New Orders	23,791	23,703	23,014	0.4	3.0	2.1	22,364	27,622	20,871	223,666	216,196	3.5
Computers and related products:												
Shipments	1,938	1,914	2,035	1.3	-5.9	-2.5	1,660	2,461	1,758	19,196	-	-0.8
New Orders	1,962	1,948	2,065	0.7	-5.7	-3.0	1,684	2,495	1,761	19,451	19,345	0.5
Communications equipment:												
Shipments	3,117	3,071	2,961	1.5	3.7	0.5	2,881	3,789	2,606	29,410		3.4
New Orders	3,519	3,499	3,264	0.6	7.2	7.4	3,231	4,299	2,854	31,664	30,516	3.8
Electrical equipment, appliances,												
and components:	40.400	40.400	40.045	0.0	0.0	0.5	40.540	40.070	40.475	404.045	00.400	4.0
Shipments New Orders	10,198 10,299	10,136 10,216	10,045 10,084	0.6 0.8	0.9 1.3	0.5 2.0	10,542 10,513	10,679 10,624	10,175 10,228	101,015 101,395		
Transportation equipment:		·	•									
Shipments	79,117	79,479	78,632	-0.5	1.1	-0.3	81,643	84,197	77,927	788,216	781,857	0.8
New Orders	77,141	80,645	77,228	-4.3	4.4	4.7	78,063	84,197	84,850	772,406	749,175	3.1
Motor vehicles and parts:												
Shipments	55,372	54,554	54,593	1.5	-0.1	2.6	58,864	56,242	55,030	548,148	540,559	1.4
New Orders	55,495	54,577	54,651	1.7	-0.1	2.9	58,251	56,302	54,041	548,323	538,207	1.9
Nondefense aircraft and parts:												
Shipments	10,769	12,307	11,481	-12.5	7.2	-11.7	9,978	14,002	11,215	114,913	120,306	-4.5
New Orders	10,575	12,988	9,699	-18.6	33.9	33.5	9,699	13,274	19,090	105,005	95,395	10.1
Defense aircraft and parts:												
Shipments	4,226	4,004	4,054	5.5	-1.2	-0.3	4,050	4,573	3,386		37,869	3.1
New Orders	3,111	3,508	3,756	-11.3	-6.6	-30.8	2,618	3,505	3,706	38,317	38,619	-0.8
All other durable goods:												
Shipments	39,532	39,268	38,909	0.7	0.9	0.8	40,904	40,763	38,606	390,330	379,362	2.9
New Orders	39,526	39,123	38,881	1.0	0.6	0.6	40,970	40,574	38,714	391,236	380,679	2.8
Capital goods <sup>3</sup> :												
Shipments	83,230	84,354	82,342	-1.3	2.4	-0.7	81,822	91,462	75,888	809,843	780,160	3.8
New Orders	82,177	86,627	81,612	-5.1	6.1	2.5	78,908	91,842	84,451	804,900	759,754	5.9
Nondefense capital goods:												
Shipments	72,366	73,745	71,915	-1.9	2.5	-1.0	71,186	79,833	66,306	708,282	687,327	3.0
New Orders	72,262	75,655	70,600	-4.5	7.2	4.0	70,689	78,955	75,479	708,267	669,296	5.8
Excluding aircraft:												
Shipments	65,786	65,541	64,780	0.4	1.2	1.3	65,300	70,043	59,287	635,333	610,667	4.0
New Orders	66,172	66,526	65,132	-0.5	2.1	1.4	65,182	70,127	59,610			4.4
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Defense capital goods: Shipments	10,864	10,609	10,427	2.4	1.7	1.1	10,636	11,629	9,582	101,561	92,833	9.4
New Orders	9,915	10,609	11,012	-9.6	-0.4	-6.5	8,219	12,887	9,562 8,972	96,633		6.8
		-,-	,				-,	,	-,	,		

<sup>&</sup>lt;sup>r</sup> Revised data due to late receipts and concurrent seasonal adjustment.

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>&</sup>lt;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.cosnus.gov/manufacturing/m3.

ntp://www.census.gov/manuracturing/ms.

3 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; electrical equipment; electrical equipment; electrical equipment; electrical equipment; electronical 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.

ordnance, communications equipment, aircraft; missiles, space vehicles, and parts, ships and boats, and search and navigation equipment.

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.]

Estimates are shown in millions of dollars a	nd are based on data from the Manufacturers' Shipments, Inventories, and Orders Survey.]  Seasonally Adjusted  Not Seasonally Adjuste									
	Monthly			•	ercent Chang	ge		Percent		
ltem	Oct 2017 <sup>2</sup>	Sep 2017 <sup>r</sup>	Aug 2017	Sep - Oct <sup>2</sup>	Aug - Sep <sup>r</sup>	Jul - Aug	Oct 2017 <sup>2</sup>	Sep 2017 <sup>r</sup>	Oct 2016	2017/ 2016
DURABLE GOODS										
Total:										
Unfilled Orders <sup>4</sup> Total Inventories	1,134,617 404,056	1,135,108 403,546	1,132,326 401,323	0.0 0.1	0.2 0.6	0.0 0.5	1,122,487 404,559	1,125,927 402,672	1,117,473 390,203	0.4 3.7
Excluding transportation:										
Unfilled Orders <sup>4</sup> Total Inventories	364,890 273,148	363,405 272,647	361,789 271,291	0.4 0.2	0.4 0.5	0.4 0.7	360,218 273,122	360,078 271,964	345,030 258,913	4.4 5.5
Excluding defense:										
Unfilled Orders <sup>4</sup> Total Inventories	957,774 376,222	956,856 375,978	954,007 373,639	0.1 0.1	0.3 0.6	0.0 0.5	947,889 376,774	948,795 375,168	944,826 363,854	0.3 3.6
Manufacturing with unfilled orders:										
Unfilled Orders	1,134,617 328,671	1,135,108 328,091	1,132,326 326,145	0.0 0.2	0.2 0.6	0.0 0.5	1,122,487 329,340	1,125,927 327,661	1,117,473 317,996	0.4 3.6
Primary metals: Unfilled Orders Total Inventories	30,850 33,851	30,739 33,702	30,594 33,499	0.4 0.4	0.5 0.6	0.8 0.6	29,690 33,793	29,653 33,924	27,807 30,903	6.8 9.4
Fabricated metal products:										
Unfilled Orders	80,804 50,511	80,302 50,365	79,352 50,065	0.6 0.3	1.2 0.6	0.7 0.6	79,836 50,259	80,093 50,264	74,499 47,591	7.2 5.6
Machinery: Unfilled Orders Total Inventories	100,957 69,598	100,881 69,661	101,050 69,165	0.1 -0.1	-0.2 0.7	0.3 1.0	99,967 69,639	99,806 69,668	96,485 65,576	3.6 6.2
Computers and electronic products <sup>4</sup> :		·								
Unfilled Orders	119,451 45,048	118,750 45,079	117,995 44,876	0.6 -0.1	0.6 0.5	0.2 0.5	118,534 45,416	118,372 44,671	115,283 43,676	2.8 4.0
Computers and related products:										
Unfilled Orders	1,944 4,389	1,920 4,393	1,886 4,362	1.3 -0.1	1.8 0.7	1.6 0.2	1,944 4,406	1,920 4,358	1,670 4,066	16.4 8.4
Communications equipment: Unfilled Orders Total Inventories	28,258 4,548	27,856 4,537	27,428 4,643	1.4 0.2	1.6 -2.3	1.1 0.0	28,027 4,571	27,677 4,457	25,549 4,516	9.7 1.2
Electrical equipment, appliances,										
and components:										
Unfilled Orders Total Inventories	22,531 17,771	22,430 17,718	22,350 17,725	0.5 0.3	0.4 0.0	0.2 0.5	22,017 17,775	22,046 17,519	20,894 17,002	5.4 4.5
Transportation equipment:										
Unfilled Orders	769,727 130,908	771,703 130,899	770,537 130,032	-0.3 0.0	0.2 0.7	-0.2 0.2	762,269 131,437	765,849 130,708	772,443 131,290	-1.3 0.1
Motor vehicles and parts: Unfilled Orders	23,981	23,858	23,835	0.5	0.1	0.2	23,075	23,688	21,959	5.1
Total Inventories	34,612	35,001	34,751	-1.1	0.7	-0.1	34,973	35,103	35,362	-1.1
Nondefense Aircraft and parts: Unfilled Orders	578,369	578,563	577,882	0.0	0.1	-0.3	573,871	574,150	585,382	-2.0
Total Inventories	67,044	66,787	66,041	0.4	1.1	0.2	67,172	66,337	67,904	-1.1
Defense Aircraft and parts: Unfilled Orders	72,109	73,224	73,720	-1.5	-0.7	-0.4	70,672	72,104	67,834	4.2
Total Inventories	13,397	13,232	13,428	1.2	-1.5	2.2	13,415	13,264	11,975	12.0
All other durable goods: Unfilled Orders	10,297	10,303	10,448	-0.1	-1.4	-0.3	10,174	10,108	10,062	1.1
Total Inventories	56,369	56,122	55,961	0.4	0.3	0.5	56,240	55,918		3.8
Capital goods <sup>3</sup> :										
Unfilled Orders	847,525 203,283	848,578 203,017	846,305 202,047	-0.1 0.1	0.3 0.5		839,234 203,850	842,148 202,262	839,866 197,500	-0.1 3.2
Nondefense capital goods: Unfilled Orders	705,228	705,332	703,422	0.0	0.3	-0.2	698,674	699,171	700,905	0.0
Total Inventories	179,655	179,620	178,565	0.0	0.6		180,289	178,961	175,956	-0.3 2.5
Excluding aircraft: Unfilled Orders	228.293	227,907	226,922	0.2	0.4	0.2	225,905	226,023	220,592	2.4
Total Inventories	124,215	124,343	123,844	-0.1	0.4	0.2	124,768	124,091	119,539	4.4
Defense capital goods: Unfilled Orders	140 007	1/2 2/0	142,883	0.7	0.0	0.4	140.560	140.077	120 004	4.0
Total Inventories	142,297 23,628	143,246 23,397	23,482	-0.7 1.0	0.3 -0.4	0.4 1.2	23,561	142,977 23,301	138,961 21,544	1.2 9.4

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2 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.

3 The Capital Goods Industries include Nondefense: small arms and ordnance; farm machinery sturbines and generators; other nower transmission equipment; pumps and compressors; material.

rine capital Goots industries include knonectines : similar aims and ordinance; rarm machinery; and equipment; construction machinery; initings, in, and gas field machinery; industrial machinery wending, laundry, and other machinery; photographic equipment; entalworking machinery turbines and generators; other power transmission equipment; upumps 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>&</sup>lt;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 aggreg Estimates and percent changes for new orders and unfilled orders exclude semiconductor industry data.