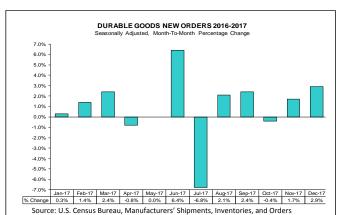
# FOR RELEASE AT 8:30 AM EST, FRIDAY, JANUARY 26, 2018

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

Release Number: CB 18-11 M3-1 (17)-12

**January 26, 2018** — The U.S. Census Bureau announces the December advance report on manufacturers' shipments, inventories and orders:





#### **New Orders**

New orders for manufactured durable goods in December increased \$7.0 billion or 2.9 percent to \$249.4 billion, the U.S. Census Bureau announced today. This increase, up four of the last five months, followed a 1.7 percent November increase. Excluding transportation, new orders increased 0.6 percent. Excluding defense, new orders increased 2.2 percent. Transportation equipment, also up four of the last five months, led the increase, \$6.0 billion or 7.4 percent to \$87.2 billion.

## **Shipments**

Shipments of manufactured durable goods in December, up seven of the last eight months, increased \$1.5 billion or 0.6 percent to \$246.8 billion. This followed a 1.3 percent November increase. Fabricated metal products, also up seven of the last eight months, led the increase, \$0.5 billion or 1.5 percent to \$33.5 billion.

#### **Unfilled Orders**

Unfilled orders for manufactured durable goods in December, up four consecutive months, increased \$6.9 billion or 0.6 percent to \$1,144.1 billion. This followed a 0.1 percent November increase. Transportation equipment, up following two consecutive monthly decreases, led the increase, \$6.0 billion or 0.8 percent to \$775.9 billion.

**Data Inquiries** 

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

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#### **Inventories**

Inventories of manufactured durable goods in December, up seventeen of the last eighteen months, increased \$1.3 billion or 0.3 percent to \$406.5 billion. This followed a 0.2 percent November increase. Machinery, up ten of the last eleven months, led the increase, \$0.4 billion or 0.6 percent to \$70.4 billion.

## **Capital Goods**

Nondefense new orders for capital goods in December decreased \$0.1 billion or 0.1 percent to \$75.1 billion. Shipments decreased \$0.3 billion or 0.4 percent to \$74.3 billion. Unfilled orders increased \$0.9 billion or 0.1 percent to \$707.3 billion. Inventories increased \$0.4 billion or 0.2 percent to \$180.9 billion. Defense new orders for capital goods in December increased \$2.1 billion or 19.5 percent to \$12.8 billion. Shipments decreased less than \$0.1 billion or 0.2 percent to \$11.1 billion. Unfilled orders increased \$1.7 billion or 1.2 percent to \$143.8 billion. Inventories increased \$0.2 billion or 0.7 percent to \$23.2 billion.

## **Revised November Data**

Revised seasonally adjusted November figures for all manufacturing industries were: new orders, \$489.6 billion (revised from \$488.1 billion); shipments, \$492.5 billion (revised from \$491.2 billion); unfilled orders, \$1,137.2 billion (revised from \$1,137.1 billion) and total inventories, \$665.2 billion (revised from \$665.1 billion).

Revised and more detailed estimates, plus nondurable goods data, will be published on February 2, 2018, at 10:00 a.m. EST. The Advance Report on durable goods for January is scheduled for release on February 27, 2018 at 8:30 a.m. EST. View the full schedule in the Economic Briefing

Room:<<u>www.census.gov/economic-indicators/</u>>. The full text and tables of this release can be found at <<u>www.census.gov/m3</u>>.

#### **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 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

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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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Table 1. Durable Goods Manufacturers' Shipments and New Orders 1

[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	rs and are based on data from the Manufacturers' Shipments, Invento Seasonally Adjusted						ories, and Orders Survey.] Not Seasonally Adjusted					
	Monthly			Percent Change			Monthly			Year to Date		
ltem	Dec 2017 <sup>2</sup>	Nov 2017 <sup>r</sup>	Oct 2017	Nov - Dec <sup>2</sup>	Oct - Nov <sup>r</sup>	Sep - Oct	Dec 2017 <sup>2</sup>	Nov 2017 <sup>r</sup>	Dec 2016	2017	2016	Percent Change 2017/2016
DURABLE GOODS												
Total:												
Shipments	246,812	245,318	242,170	0.6	1.3	0.5	239,636	238,921	230,554	2,854,947	2,741,945	4.1
New Orders <sup>4</sup>	249,448	242,436	238,324	2.9	1.7	-0.4	253,605	236,874	231,211	2,823,251	2,668,898	5.8
Excluding transportation:												
Shipments	165,583	163,828	162,934	1.1	0.5	1.0	160,866	158,010	152,225	1,907,134	1,806,235	5.6
New Orders <sup>4</sup>	162,246	161,244	160,704	0.6	0.3	1.4	156,625	153,671	146,814	1,870,611	1,760,234	6.3
Excluding defense:												
Shipments	233,661	232,240	229,160	0.6	1.3	0.4	224,668	225,035	216,706	2,704,815	2,602,570	3.9
New Orders <sup>4</sup>	235,129	230,016	226,569	2.2	1.5	0.0	234,613	224,577	212,844	2,675,768	2,525,899	5.9
Manufacturing with unfilled orders:												
Shipments  New Orders	173,806 180,671	172,942 174,302	170,010 170,583	0.5 3.7	1.7 2.2	0.0 -1.4	171,795 189,649	167,866 170,850	163,889 169,131	2,009,950 2,031,347	1,912,675 1,891,480	5.1 7.4
	100,071	174,502	170,303	5.7	2.2	-1.4	103,043	170,030	103,131	2,031,347	1,031,400	7.4
Primary metals: Shipments	20,677	20,200	19,966	2.4	1.2	1.7	18,265	18,925	16,620	233,806	211,043	10.8
New Orders	20,836	20,556	20,227	1.4	1.6	2.2	18,737	19,699	16,890	235,933	212,406	11.1
Fabricated metal products:			•									
Shipments	33,462	32,983	32,736	1.5	0.8	0.9	30,503	31,664	28,531	383,562	356,902	7.5
New Orders	33,582	33,275	33,275	0.9	0.0	-0.4	29,898	31,162	27,522	389,078	356,269	9.2
Machinery:												
Shipments	32,683	32,512	32,535	0.5	-0.1	0.9	32,955	30,265	31,288	376,306	357,745	5.2
New Orders	33,169	32,983	32,987	0.6	0.0	2.8	32,777	30,625	30,275	381,228	354,469	7.5
Computers and electronic products <sup>4</sup> :												
Shipments	27,979	27,924	27,775	0.2	0.5	0.7	31,115	28,273	29,698	324,904	309,579	5.0
New Orders	23,867	23,919	24,128	-0.2	-0.9	1.6	27,836	23,150	26,333	275,003	262,806	4.6
Computers and related products:												
Shipments	1,791	1,889	1,956	-5.2	-3.4	1.6	2,475	1,668	2,770	23,406		-1.7
New Orders	1,825	1,909	1,987	-4.4	-3.9	1.4	2,509	1,688	2,779	23,722	23,812	-0.4
Communications equipment:	2 277	2 402	2.455	2.6	4.0	2.7	4 204	2.002	2 747	20.040	24.020	4.0
Shipments New Orders	3,277 3,261	3,193 3,368	3,155 3,587	2.6 -3.2	1.2 -6.1	2.7 2.5	4,201 4,195	2,982 3,073	3,747 4,030	36,618 38,977	34,928 37,216	4.8 4.7
	0,201	0,000	0,001	0.2	0	2.0	1,100	0,070	1,000	00,077	07,210	
Electrical equipment, appliances, and components:												
Shipments	10,179	10,145	10,185	0.3	-0.4	0.5	9,937	10,039	9,961	120,985	118,919	1.7
New Orders	10,251	10,340	10,323	-0.9	0.2	1.0	10,176	10,037	10,507	121,597	121,714	-0.1
Transportation equipment:												
Shipments New Orders	81,229 87,202	81,490 81,192	79,236 77,620	-0.3 7.4	2.8 4.6	-0.4 -4.0	78,770 96,980	80,911 83,203	78,329 84,397	947,813 952,640	935,710 908,664	1.3 4.8
	67,202	61,192	77,020	7.4	4.0	-4.0	90,960	63,203	04,397	932,040	908,004	4.0
Motor vehicles and parts:  Shipments	56,570	56,188	55,312	0.7	1.6	1.4	50,074	55,378	49,616	653,334	642,242	1.7
New Orders	56,757	56,510	55,395	0.7	2.0	1.5	51,074	55,985	50,307	655,104	640,831	2.2
Nondefense aircraft and parts:			•									
Shipments	11,310	12,039	10,809	-6.1	11.4	-12.2	14,025	12,062	14,858	141,008	146,046	-3.4
New Orders	14,460	12,478	10,936	15.9	14.1	-15.8	26,155	15,297	16,857	146,464	119,532	22.5
Defense aircraft and parts:												
Shipments	4,208	4,188	4,276	0.5	-2.1	6.7	5,162	4,373	4,693	48,624		4.5
New Orders	5,329	3,432	3,317	55.3	3.5	-7.0	7,459	3,342	4,839	49,382	50,839	-2.9
All other durable goods:												
Shipments	40,603	40,064	39,737	1.3	0.8	1.1	38,091	38,844	36,127	467,571	452,047	3.4
New Orders	40,541	40,171	39,764	0.9	1.0	1.5	37,201	38,998	35,287	467,772	452,570	3.4
Capital goods <sup>3</sup> :												
Shipments	85,352	85,695	84,041	-0.4	2.0	-0.6	92,884	83,474	88,015	987,092		4.6
New Orders	87,922	85,925	83,598	2.3	2.8	-3.8	104,947	85,416	93,736	996,710	927,416	7.5
Nondefense capital goods:												
Shipments	74,266	74,585	73,082	-0.4	2.1	-1.0	80,541	71,625	76,771	861,214	828,683	3.9
New Orders	75,116	75,205	73,543	-0.1	2.3	-3.0	88,035	75,418	78,395	872,862	808,436	8.0
Excluding aircraft:												
Shipments	67,052	66,685	66,452	0.6	0.4	1.2	70,868	63,625	66,370	770,592	734,805	4.9
New Orders	67,135	67,342	67,220	-0.3	0.2	0.8	69,875	63,938	65,360	776,632	737,706	5.3
Defense capital goods:												
Shipments	11,086 12,806	11,110 10,720	10,959 10,055	-0.2 19.5	1.4 6.6	2.5 -9.8	12,343 16,912	11,849 9,998	11,244 15,341	125,878 123,848		9.6 4.1
New Orders	12,006	10,720	10,055	19.5	0.0	-9.8	10,912	9,998	15,341	123,048	110,980	4.1

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.census.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.

<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 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 1

[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	ing are based	on data froi	m the Manufa Seasonally	Not Seasonally Adjusted						
	Monthly				ercent Chang	ge		Percent		
Item	Dec 2017 <sup>2</sup>	Nov 2017 <sup>r</sup>	Oct 2017	Nov - Dec <sup>2</sup>	Oct - Nov <sup>r</sup>	Sep - Oct	Dec 2017 <sup>2</sup>	Nov 2017 <sup>r</sup>	Dec 2016	2017/ 2016
DURABLE GOODS										
Total:										
Unfilled Orders <sup>4</sup> Total Inventories	1,144,099 406,535	1,137,234 405,239	1,135,874 404,393	0.6 0.3	0.1 0.2	0.1 0.2	1,144,139 396,078	1,126,285 405,482	1,122,742 380,826	1.9 4.0
Excluding transportation:										
Unfilled Orders <sup>4</sup> Total Inventories	368,222 275,741	367,330 274,685	365,672 273,486	0.2 0.4	0.5 0.4	0.6 0.3	361,233 268,644	361,589 274,411	344,663 253,939	4.8 5.8
Excluding defense:										
Unfilled Orders <sup>4</sup> Total Inventories	966,475 379,069	960,778 377,949	958,760 376,768	0.6 0.3	0.2 0.3	0.2 0.2	966,900 368,843	953,070 378,248	942,854 355,075	2.6 3.9
Manufacturing with unfilled orders:										
Unfilled Orders	1,144,099 330,781	1,137,234 329,932	1,135,874 329,064	0.6 0.3	0.1 0.3	0.1 0.3	1,144,139 322,124	1,126,285 330,326	1,122,742 309,737	1.9 4.0
Primary metals: Unfilled Orders Total Inventories	31,514 34,150	31,355 34,229	30,999 34,113	0.5 -0.2	1.1 0.3	0.8 1.1	31,069 33,991	30,597 34,109	28,942 31,100	7.3 9.3
Fabricated metal products:										
Unfilled Orders	81,265 50,847	81,145 50,679	80,853 50,470	0.1 0.3	0.4 0.4	0.7 0.2	78,775 50,034	79,380 50,202	73,259 46,963	7.5 6.5
Machinery: Unfilled Orders Total Inventories	102,315 70,404	101,829 70,015	101,358 69,618	0.5 0.6	0.5 0.6		100,571 67,877	100,749 70,632	95,649 64,238	5.1 5.7
Computers and electronic products <sup>4</sup> : Unfilled Orders Total Inventories	119,898 45,325	119,781 45,300	119,544 45,168	0.1 0.1	0.2 0.3	0.6 0.2	119,100 43,586	118,494 45,460	115,908 41,967	2.8 3.9
Computers and related products: Unfilled Orders Total Inventories	2,005 4,387	1,971 4,364	1,951 4,380	1.7 0.5	1.0 -0.4	1.6 0.1	2,005 4,048	1,971 4,409	1,689 4,112	18.7 -1.6
Communications equipment: Unfilled Orders Total Inventories	28,447 4,595	28,463 4,594	28,288 4,577	-0.1 0.0	0.6 0.4	1.6 0.9	28,132 4,387	28,138 4,707	25,773 4,266	9.2 2.8
Electrical equipment, appliances,		,								
and components: Unfilled Orders	22,837	22,765	22,570	0.3	0.9 0.7	0.6	22,249	22,010	21,637	2.8 7.1
Total Inventories	18,183	17,937	17,819	1.4	0.7	0.5	17,387	17,725	16,238	7.1
Transportation equipment:  Unfilled Orders  Total Inventories	775,877 130,794	769,904 130,554	770,202 130,907	0.8 0.2	0.0 -0.3		782,906 127,434	764,696 131,071	778,079 126,887	0.6 0.4
Motor vehicles and parts: Unfilled Orders	24,449	24,262	23,940	0.8	1.3	0.3	24,670	23,670	22,900	7.7
Total Inventories	35,019	34,695	34,655	0.9	0.1	-1.0	33,880	34,809	33,933	-0.2
Nondefense Aircraft and parts: Unfilled Orders Total Inventories	582,278 66,912	579,128 67,197	578,689 67,198	0.5 -0.4	0.1 0.0	0.0 0.6	589,235 65,034	577,105 67,515	583,779 65,731	0.9 -1.1
Defense Aircraft and parts: Unfilled Orders	72,685	71,564	72,320	1.6	-1.0		72,158	69,861	71,400	1.1
Total Inventories	13,414	13,353	13,431	0.5	-0.6	1.5	13,321	13,383	11,623	14.6
All other durable goods:  Unfilled Orders  Total Inventories	10,393 56,832	10,455 56,525	10,348 56,298	-0.6 0.5	1.0 0.4	0.3 0.3	9,469 55,769	10,359 56,283	9,268 53,433	2.2 4.4
Capital goods <sup>3</sup> : Unfilled Orders	851,053	848,483	848,253	0.3	0.0	-0.1	853,795	841.732	844,177	1.1
Total Inventories	204,139	203,538	203,323	0.3	0.1	0.1	197,810	204,954	191,831	3.1
Nondefense capital goods: Unfilled Orders Total Inventories	707,285 180,907	706,435 180,473	705,815 179,910	0.1 0.2	0.1 0.3	0.1 0.1	710,337 174,716	702,843 181,975	698,689 170,620	1.7 2.4
Excluding aircraft: Unfilled Orders Total Inventories	229,438 125,534	229,355 124,773	228,698 124,318	0.0 0.6	0.3 0.4	0.3 0.0	225,605 121,187	226,598 125,963	219,565 116,224	2.8 4.3
Defense capital goods: Unfilled Orders	143,768	142,048	142,438	1.2	-0.3	-0.6	143,458	138,889	145,488	-1.4
Total Inventories	23,232	23,065	23,413	0.7	-1.5	0.2	23,094	22,979	21,211	8.9

Revised data due to late receipts and concurrent seasonal adjustment.

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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.

The Capital Goods Industries include Nondefense: small arms and ordnance; farm machinery there 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 aggregate totals Estimates and percent changes for new orders and unfilled orders exclude semiconductor industry data.