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

New Orders

New orders for manufactured durable goods in December decreased \$1.0 billion or 0.4 percent to \$227.0 billion, the U.S. Census Bureau announced today. This decrease, down two consecutive months, followed a 4.8 percent November decrease. Excluding transportation, new orders increased 0.5 percent. Excluding defense, new orders increased 1.7 percent.

Transportation equipment, also down two consecutive months, drove the decrease, \$1.7 billion or 2.2 percent to \$73.7 billion.

Shipments

Shipments of manufactured durable goods in December, up three of the last four months, increased \$3.3 billion or 1.4 percent to \$238.0 billion. This followed a 0.3 percent November increase.

Transportation equipment, up following two consecutive monthly decreases, led the increase, \$2.0 billion or 2.5 percent to \$82.3 billion.

Unfilled Orders

Unfilled orders for manufactured durable goods in December, down six of the last seven months, decreased \$7.2 billion or 0.6 percent to \$1,119.4 billion. This followed a 0.3 percent November decrease.

Transportation equipment, also down six of the last seven months, drove the decrease, \$8.6 billion or 1.1 percent to \$759.8 billion.

Inventories

Inventories of manufactured durable goods in December, up five of the last six months, increased less than \$0.1 billion or virtually unchanged to \$384.4 billion. This followed a 0.2 percent November increase.

Machinery, up four of the last five months, drove the increase, \$0.4 billion or 0.5 percent to \$66.4 billion.

Capital Goods

Nondefense new orders for capital goods in December increased \$2.4 billion or 3.8 percent to \$66.6 billion. Shipments increased \$1.2 billion or 1.8 percent to \$71.7 billion. Unfilled orders decreased \$5.1 billion or 0.7 percent to \$691.8 billion. Inventories increased \$0.6 billion or 0.3 percent to \$171.1 billion.

Defense new orders for capital goods in December decreased \$4.8 billion or 33.4 percent to \$9.5 billion. Shipments decreased \$0.1 billion or 1.2 percent to \$10.9 billion. Unfilled orders decreased \$1.3 billion or 0.9 percent to \$140.9 billion. Inventories decreased \$0.2 billion or 0.7 percent to \$20.7 billion.

Revised November Data

Revised seasonally adjusted November figures for all manufacturing industries were: new orders, \$457.5 billion (revised from \$458.3 billion); shipments, \$464.3 billion (revised from \$463.8 billion); unfilled orders, \$1,126.5 billion (revised from \$1,127.8 billion) and total inventories, \$623.3 billion (revised from \$623.1 billion).

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 February 3, 2017, at 10:00 a.m. EST. The Advance Report on durable goods for January is scheduled for release on February 27, 2017 at 8:30 a.m. EST. 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. "Virtually unchanged" indicates that the change is less than 0.05 percent for a percent increase or decrease. With the release of the January 2017 Advance Report on Durable Goods Manufacturers' Shipments, Inventories and Orders on February 27, 2017, the presentation of the release will shape a The text portion of the release will be represented. The

With the release of the January 2017 Advance Report on Durable Goods Manufacturers' Shipments, Inventories and Orders on February 27, 2017, the presentation of the release will change. The text portion of the release will be removed from Excel and reformatted. The layout and format of the tables are not currently changing, though some explanatory notes may move to the text portion of the document. The full text and tables will be available as a PDF, with the tables available separately in Excel.

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

[Fstimates are shown in millions of dollars and are based on data from the Manufacturers' Shinmants. Inventories, and Orders Survey 1

[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					1e	Not Seasonally Adjusted Monthly Year to Date					
ltem	Dec 2016 ²	Nov 2016 ^r	Oct 2016	Nov - Dec ²	Oct - Nov ^r	Sep - Oct	Dec 2016 ²	Nov 2016 ^r	Dec 2015	2016	2015	Percent Change 2016/2015
DURABLE GOODS												
Total: Shipments New Orders ⁴	238,049 227,018	234,749 227,987	233,989 239,530	1.4 -0.4	0.3 -4.8	-0.2 5.0	235,924 236,035	227,313 222,613	230,858 237,841	2,806,101 2,745,970	2,820,620 2,754,511	-0.5 -0.3
Excluding transportation:	,	, , ,	,					,-	. , .	, ,,,	, . , .	
Shipments New Orders ⁴	155,758 153,363	154,498 152,639	153,417 151,198	0.8 0.5	0.7 1.0	0.6 1.1	154,000 150,178	148,516 144,175	151,813 146,983	1,833,408 1,800,228	1,850,934 1,806,060	-0.9 -0.3
Excluding defense: Shipments New Orders ⁴	224,996 215,305	221,636 211,698	221,422 227,044	1.5 1.7	0.1 -6.8	-0.2 5.2	221,081 219,205	213,712 206,911	216,366 221,721	2,655,773 2,592,570	2,672,737 2,616,539	-0.6 -0.9
Manufacturing with unfilled orders:												
Shipments New Orders	168,982 161,831	166,788 163,880	166,255 175,390	1.3 -1.3	0.3 -6.6	-0.5 6.7	170,388 174,093	161,316 160,952	165,054 174,754	1,990,467 1,970,694	1,997,276 1,969,407	-0.3 0.1
Primary metals: Shipments New Orders	18,448 18,547	18,204 18,719	17,752 18,191	1.3 -0.9	2.5 2.9	0.0 1.3	16,738 17,201	17,234 18,159	16,320 16,666	214,343 216,825	230,646 228,144	-7.1 -5.0
Fabricated metal products:			-, -				, -	.,	.,	.,.	-,	
Shipments New Orders	30,785 30,952	30,827 31,191	30,445 30,997	-0.1 -0.8	1.3 0.6	1.2 3.1	28,556 28,011	29,707 29,134	27,549 27,140	361,935 363,045	355,334 352,667	1.9 2.9
Machinery: Shipments New Orders	30,727 30,686	30,255 30,561	29,959 29,972	1.6 0.4	1.0 2.0	-0.4 0.3	31,729 30,633	28,151 28,404	32,380 29,528	364,212 360,078	386,253 377,492	-5.7 -4.6
Computers and electronic products ⁴ :	50,000	00,001	20,012	0.4	2.0	0.0	50,000	20,404	20,020	000,070	011,402	4.0
Shipments	27,920 24,905	27,775 24,328	27,516 24,116	0.5 2.4	0.9 0.9	0.9 0.2	31,166 28,790	27,454 22,333	29,594 28,226	325,048 290,151	312,851 282,433	3.9 2.7
Computers and related products:												
Shipments New Orders	1,688 1,673	1,767 1,780	1,811 1,813	-4.5 -6.0	-2.4 -1.8	9.5 8.1	2,486 2,471	1,508 1,521	2,740 2,713	21,632 21,606	25,423 25,590	-14.9 -15.6
Communications equipment: Shipments	3,578	3,490	3,348	2.5	4.2	-5.2	4,438	3,223	4,236	41,282	41,043	0.6
New Orders	3,951	3,768	3,489	4.9	8.0	-1.4	4,812	3,076	4,386		44,802	-2.0
Electrical equipment, appliances,												
and components: Shipments New Orders	9,673 10,010	9,514 9,950	9,632 9,776	1.7 0.6	-1.2 1.8	0.7 1.6	9,677 10,037	9,378 9,569	9,757 9,833	114,600 116,415	121,697 121,248	-5.8 -4.0
Transportation equipment: Shipments New Orders	82,291 73,655	80,251 75,348	80,572 88,332	2.5 -2.2	-0.4 -14.7	-1.6 12.3	81,924 85,857	78,797 78,438	79,045 90,858	972,693 945,742	969,686 948,451	0.3 -0.3
Motor vehicles and parts:	70,000	70,040	00,002	2.2	14.7	12.0	00,001	70,400	30,000	540,142	040,401	0.0
Shipments	56,825 56,757	55,535 55,637	55,277 54,945	2.3 2.0	0.5 1.3	-0.8 -1.1	51,763 52,298	54,136 54,858	50,493 50,725	664,883 663,269	646,521 646,085	2.8 2.7
Nondefense aircraft and parts: Shipments New Orders	13,048	12,274 4,298	13,479	6.3	-8.9	-4.5	16,558	12,069	14,261	161,995	168,041	-3.6
Defense aircraft and parts:	6,122	4,298	21,903	42.4	-80.4	94.5	18,788	8,535	25,485	135,854	162,778	-16.5
Shipments New Orders	4,199 2,745	4,175 7,612	3,931 3,823	0.6 -63.9	6.2 99.1	-4.9 37.7	5,138 5,308	4,334 7,732	5,899 5,631	50,757 54,666	59,037 57,649	-14.0 -5.2
All other durable goods:												
Shipments New Orders	38,205 38,263	37,923 37,890	38,113 38,146	0.7 1.0	-0.5 -0.7	0.9 0.6	36,134 35,506	36,592 36,576	36,213 35,590	453,270 453,714	444,153 444,076	2.1 2.2
Capital goods ³ :												
Shipments New Orders	82,582 76,099	81,474 78,432	81,832 91,266	1.4 -3.0	-0.4 -14.1	-0.6 12.5	91,676 95,238	78,906 76,788	90,452 91,989	984,049 968,463	1,024,839 993,105	-4.0 -2.5
Nondefense capital goods:	74 740	70.407	74.400	4.0	4.0	4.4	70.040	07.405	70 407	000 440	000 007	5.0
Shipments	71,712 66,577	70,467 64,132	71,162 80,210	1.8 3.8	-1.0 -20.0	-1.1 14.8	79,646 81,663	67,425 63,510	79,187 79,001	860,112 840,571	906,887 884,710	-5.2 -5.0
Excluding aircraft: Shipments	63,365	62,759	62,394	1.0	0.6	-0.3	68,081	59,845	70,005	755,747	793,564	-4.8
New Orders Defense capital goods:	64,493	63,972	63,044	0.8	1.5	0.5	67,492	59,712	66,704	759,101	785,471	-3.4
Shipments	10,870 9,522	11,007 14,300	10,670 11,056	-1.2 -33.4	3.2 29.3	3.2 -1.8	12,030 13,575	11,481 13,278	11,265 12,988	123,937 127,892	117,952 108,395	5.1 18.0

^r Revised data due to late receipts and concurrent seasonal adjustment.

¹ 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.

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; 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; electroic computers; computer storage devices; other computer peripheral equipment equipment; electrical equipment; electrical equipment; other electrical equipment; 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.

⁴ 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.]

Lestinates are shown in minions of donars a	and are based on data from the Manufacturers' Shipments, Inventories, Seasonally Adjusted						and Orders Survey.] Not Seasonally Adjusted				
	Monthly			Pe	ercent Chang	ge	Monthly			Percent	
Item	Dec	Nov	Oct	Nov -	Oct -	Sep -	Dec	Nov	Dec	2016/	
	2016 ²	2016 ^r	2016	Dec ²	Nov ^r	Oct	2016 ²	2016 ^r	2015	2015	
DURABLE GOODS											
Total: Unfilled Orders ⁴ Total Inventories	1,119,363	1,126,514	1,129,422	-0.6	-0.3	0.8	1,119,927	1,116,222	1,139,700	-1.7	
	384,351	384,349	383,424	0.0	0.2	-0.1	374,061	384,569	377,498	-0.9	
Excluding transportation: Unfilled Orders ⁴ Total Inventories	359,523	358,038	356,043	0.4	0.6	0.4	352,020	352,248	344,842	2.1	
	260,844	260,368	259,632	0.2	0.3	-0.1	254,489	260,200	256,142	-0.6	
Excluding defense: Unfilled Orders ⁴ Total Inventories	943,295	949,106	955,190	-0.6	-0.6	1.0	943,638	941,920	966,483	-2.4	
	359,060	358,823	357,608	0.1	0.3	-0.1	349,109	359,017	352,500	-1.0	
Manufacturing with unfilled orders: Unfilled Orders Total Inventories	1,119,363	1,126,514	1,129,422	-0.6	-0.3	0.8	1,119,927	1,116,222	1,139,700	-1.7	
	311,630	312,001	311,370	-0.1	0.2	-0.1	303,103	312,180	307,102	-1.3	
Primary metals: Unfilled Orders Total Inventories	33,748	33,649	33,134	0.3	1.6	1.3	33,095	32,632	30,613	8.1	
	31,595	31,633	31,558	-0.1	0.2	-0.2	31,486	31,534	33,208	-5.2	
Fabricated metal products: Unfilled Orders Total Inventories	75,215	75,048	74,684	0.2	0.5	0.7	72,557	73,102	71,447	1.6	
	48,727	48,764	48,886	-0.1	-0.2	-0.1	47,987	48,294	48,341	-0.7	
Machinery: Unfilled Orders Total Inventories	92,650	92,691	92,385	0.0	0.3	0.0	90,822	91,918	94,956	-4.4	
	66,421	66,062	65,390	0.5	1.0	-0.6	64,008	66,545	64,750	-1.1	
Computers and electronic products ⁴ : Unfilled Orders Total Inventories	130,760	129,895	129,488	0.7	0.3	0.2	129,652	128,434	124,191	4.4	
	42,516	42,567	42,508	-0.1	0.1	0.1	41,053	42,759	41,151	-0.2	
Computers and related products: Unfilled Orders Total Inventories	2,421	2,436	2,423	-0.6	0.5	0.1	2,421	2,436	2,447	-1.1	
	3,883	3,649	3,553	6.4	2.7	-2.6	3,576	3,716	3,255	9.9	
Communications equipment: Unfilled Orders Total Inventories	35,842	35,469	35,191	1.1	0.8	0.4	35,381	35,007	32,762	8.0	
	4,291	4,459	4,479	-3.8	-0.4	0.1	4,154	4,597	4,579	-9.3	
Electrical equipment, appliances, and components: Unfilled Orders	18,640	18,303	17,867	1.8	2.4	0.8	18,118	17,758	16,303	11.1	
Total Inventories Transportation equipment:	16,240	16,223	16,241	0.1	-0.1	-0.7	15,584	16,128	15,805	-1.4	
Unfilled Orders	759,840	768,476	773,379	-1.1	-0.6	1.0	767,907	763,974	794,858	-3.4	
	123,507	123,981	123,792	-0.4	0.2	0.1	119,572	124,369	121,356	-1.5	
Motor vehicles and parts: Unfilled Orders Total Inventories	21,505	21,573	21,471	-0.3	0.5	-1.5	21,945	21,410	23,559	-6.9	
	34,707	34,853	34,516	-0.4	1.0	-0.1	33,299	35,053	33,680	-1.1	
Nondefense Aircraft and parts: Unfilled Orders Total Inventories	577,388	584,314	592,290	-1.2	-1.3	1.4	584,495	582,265	610,636	-4.3	
	62,628	62,805	62,622	-0.3	0.3	-0.2	60,545	62,748	61,877	-2.2	
Defense Aircraft and parts: Unfilled Orders Total Inventories	72,044	73,498	70,061	-2.0	4.9	-0.2	72,527	72,357	68,618	5.7	
	11,021	11,140	11,220	-1.1	-0.7	1.2	10,841	11,145	11,084	-2.2	
All other durable goods: Unfilled Orders Total Inventories	8,510	8,452	8,485	0.7	-0.4	0.4	7,776	8,404	7,332	6.1	
	55,345	55,119	55,049	0.4	0.1	0.4	54,371	54,940	52,887	2.8	
Capital goods ³ : Unfilled Orders Total Inventories	832,690	839,173	842,215	-0.8	-0.4	1.1	835,290	831,728	850,876	-1.8	
	191,832	191,409	190,727	0.2	0.4	-0.1	185,572	192,592	186,922	-0.7	
Nondefense capital goods: Unfilled Orders Total Inventories	691,833	696,968	703,303	-0.7	-0.9	1.3	694,931	692,914	714,472	-2.7	
	171,114	170,540	169,604	0.3	0.6	-0.3	165,013	171,702	166,676	-1.0	
Excluding aircraft: Unfilled Orders Total Inventories	225,498 119,539	224,370 118,893	223,157 118,212	0.5 0.5	0.5 0.6	0.3 -0.3	221,040 115,494	221,629 120,237	217,686 115,938		
Defense capital goods: Unfilled Orders Total Inventories	140,857	142,205	138,912	-0.9	2.4	0.3	140,359	138,814	136,404	2.9	
	20,718	20,869	21,123	-0.7	-1.2	1.6	20,559	20,890	20,246	1.5	

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.

Benchmark notice

Revised historical data from the Manufacturers' Shipments, Inventories, and Orders (M3) Survey will be issued on May 18, 2017. These revisions result from:

- benchmarking the M3 shipments and inventories data to the 2015 Annual Survey of Manufactures (ASM) and revised 2014 ASM data on a 2012 NAICS basis;
- incorporating the unfilled orders to shipments ratios obtained from the 2015/2014 Manufacturers' Unfilled Orders (M3UFO) Survey by applying these ratios to the respective ASM shipments data, as well as incorporating revised unfilled orders to shipments ratios for prior years by applying them to the respective ASM data;
- adjusting the new orders data to be consistent with the benchmarked shipments and unfilled orders data;
- correcting monthly data for late receipts, reclassifications of reported data, and revisions to previously reported data;
- updating the seasonally adjusted data based on the results of benchmarking and the recent annual review of the seasonal adjustment models.

These revisions will span the seasonally adjusted data for January 2002 through March 2017 and the data not seasonally adjusted for January 2007 through March 2017. An updated Press Release will contain revised monthly tables for January 2017 through March 2017. Please call M3 staff on (301) 763-4832 with any questions.