U.S. Census Bureau News

U.S. Department of Commerce • Washington, D.C. 20233

FOR IMMEDIATE RELEASE WEDNESDAY, OCTOBER 5, 2016, AT 10:00 A.M. EDT

Adriana Stoica Economic Indicators Division (301) 763-4832 M3-2 (16)-08 CB 16-166

Full Report on Manufacturers' Shipments, Inventories and Orders August 2016

Summary

New orders for manufactured goods in August, up two consecutive months, increased \$0.7 billion or 0.2 percent to \$453.1 billion, the U.S. Census Bureau reported today. This followed a 1.4 percent July increase.

Shipments, up five of the last six months, increased \$0.1 billion or virtually unchanged to \$458.1 billion. This followed a 0.4 percent July decrease.

Unfilled orders, down three consecutive months, decreased \$1.6 billion or 0.1 percent to \$1,123.2 billion. This followed a 0.2 percent July decrease. The unfilled orders-to-shipments ratio was 6.81, up from 6.79 in July.

Inventories, up two consecutive months, increased \$1.0 billion or 0.2 percent to \$622.0 billion. This followed a 0.2 percent July increase. The inventories-to-shipments ratio was 1.36, unchanged from July.

New Orders

New orders for manufactured durable goods in August, up two consecutive months, increased \$0.3 billion or 0.1 percent to \$227.3 billion, up from the previously published virtually unchanged decrease. This followed a 3.6 percent July increase.

Transportation equipment, also up two consecutive months, drove the increase, \$0.6 billion or 0.7 percent to \$78.2 billion.

New orders for manufactured nondurable goods increased \$0.4 billion or 0.2 percent to \$225.9 billion.

Shipments

Shipments of manufactured durable goods in August, down following two consecutive monthly increases, decreased \$0.4 billion or 0.2 percent to \$232.2 billion, up from the previously published 0.4 percent decrease. This followed a virtually unchanged July increase.

Transportation equipment, down three of the last four months, drove the decrease, \$0.7 billion or 0.9 percent to \$80.1 billion.

Shipments of manufactured nondurable goods, up five of the last six months, increased \$0.4 billion or 0.2 percent to \$225.9 billion. This followed a 0.8 percent July decrease. Beverage and tobacco products, up three consecutive months, led the increase, \$0.1 billion or 1.0 percent to \$12.6 billion.

Unfilled Orders

Unfilled orders for manufactured durable goods in August, down three consecutive months, decreased \$1.6 billion or 0.1 percent to \$1,123.2 billion, virtually unchanged from the previously published decrease. This followed a 0.2 percent July decrease.

Transportation equipment, also down three consecutive months, drove the decrease, \$1.9 billion or 0.2 percent to \$769.1 billion.

Inventories

Inventories of manufactured durable goods in August, up two consecutive months, increased \$0.6 billion or 0.2 percent to \$383.8 billion, up from the previously published 0.1 percent increase. This followed a 0.4 percent July increase.

Machinery, up two of the last three months, led the increase, \$0.3 billion or 0.5 percent to \$65.7 billion.

Inventories of manufactured nondurable goods, up five of the last six months, increased \$0.4 billion or 0.2 percent to \$238.1 billion. This followed a virtually unchanged July decrease. Petroleum and coal products, up four of the last five months, led the increase, \$0.4 billion or 1.5 percent to \$25.4 billion.

By stage of fabrication, August materials and supplies decreased 0.4 percent in durable goods and in nondurable goods. Work in process increased 0.4 percent in durable goods and increased 1.3 percent in nondurable goods. Finished goods increased 0.5 percent in durable goods and increased 0.1 percent in nondurable goods.

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 www.census.gov/m3. The Advance Report on durable goods for September is scheduled for release on October 27, 2016 at 8:30 a.m. EDT and the Full Report on November 3, 2016 at 10:00 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.

[&]quot;Virtually unchanged" indicates that the change is less than 0.05 percent for a percent increase or decrease.

Table 1. Value of Manufacturers' Shipments for Industry Groups¹

LEGISTATES OF SHOWN IN MINIOUS OF UC	stimates are shown in millions of dollars and are based on data from the Manufacturers' Shipments Seasonally Adjusted								Not Seasonally Adjusted							
		Monthly		r e	cent Cha	inge		Мо	nthly			Year to date				
Industry	Aug. 2016 ^p	July 2016 ^r	June 2016	July - Aug.	June - July	May - June	Aug. 2016 ^p	July 2016 ^r	June 2016	Aug. 2015	2016 ^p	2015	% Change 2016/ 2015			
All manufacturing industries	458,056	458,002	459,724	0.0	-0.4	0.6	480,345	436,303	490,264	477,743	3,658,059	3,760,302	-2.7			
Excluding transportation	377,974	377,223	378,668	0.2			396,105	368,746	400,567	393,672	3,016,093	3,124,002				
Excluding defense	445,436	445,391	447,298	0.0			467,976	425,020	476,363	465,378	3,562,410	3,667,177				
With unfilled orders	165,028	165,699	165,483	-0.4		0.3	172,289	152,814	181,906	170,249	1,314,045					
Durable goods industries	232,178	232,559	232,448	-0.2	0.0	0.4	243,745	213,250	254,143	240,804	1,856,584	1,872,002	-0.8			
Wood products	8,290	8,266	8,148	0.3	1.4	-0.3	9,001	8,542	9,082	8,252	67,033	64,962	3.2			
Nonmetallic mineral products	9,880	9,843	9,947	0.4			11,203	10,111	10,960	10,372	79,447	75,640				
Primary metals	17,757	17,882	17,862	-0.7		1.4	18,964	17,210	18,795	19,289	144,293	159,799				
Iron and steel mills Aluminum and nonferrous metals	8,024 8,269	8,154 8,273	8,137 8,239	-1.6 0.0		1.4 1.8	8,669 8,738	7,906 7,957	8,466 8,649	9,010 8,565	65,205 66,953	74,987 71,556	-13.0 -6.4			
Ferrous metal foundries	1,464	1,455	1,486	0.6		-0.7	1,557	1,347	1,680	1,714	12,135					
Fabricated metal products	30,215	30,086	29,826	0.4		-0.5	32,606	29,060	31,889	30,759	240,928	238,391	1.1			
Machinery	29,851	29,713	29,992	0.5			30,314	27,821	32,755	31,992	243,577	260,057	-6.3			
Farm machinery Construction machinery	1,712 2,460	1,749 2,429	1,834 2,708	-2.1 1.3			1,574 2,462	1,642 2,261	1,807 2,896	1,999 3,420	15,260 22,214	17,751 30,005	-14.0 -26.0			
Mining, oil field, and	2,400	2,423	2,700	1.3	-10.3	-0.0	2,402	2,201	2,090	3,420	22,214	30,003	-20.0			
gas field machinery	880	830	862	6.0	-3.7	-3.9	900	777	903	1,558	7,841	14,517	-46.0			
Industrial machinery	2,499	2,425	2,331	3.1			2,357	2,250	2,677	2,301	18,931	18,314				
Photographic equipment	421	421	425	0.0	-0.9	-4.5	426	371	468	420	3,307	3,279	0.9			
Ventilation, heating, air-conditioning, and refrigeration equipment	3,555	3,449	3,338	3.1	3.3	0.3	3,875	3,677	4,234	3,743	28,317	28,829	-1.8			
Metalworking machinery	3,064	3,116	3,056				3,240	2,743	3,271	2,986	23,825		12.0			
Turbines, generators, and other																
power transmission equipment	3,961	4,095	4,073	-3.3			4,053	3,944	4,188	4,490	32,577	36,176				
Material handling equipment	2,952 27,338	2,989 27,279	3,021 26,645	-1.2 0.2		2.7 0.4	3,150 27,636	2,784 25,538	3,151 30,084	2,818 26,214	23,658 208,667	20,371 201,599	16.1 3.5			
Computers and electronic products ² Computers	599	603	560	-0.7		-6.2	568	553	739	760	4,650	6,213				
Computer storage devices	607	693	570	-12.4			476	443	918	435	4,216					
Other peripheral equipment	641	652	620	-1.7		-7.0	564	535	874	637	5,059					
Nondefense communications																
equipment Defense communications equipment	3,108 338	3,077 294	3,276 282	1.0 15.0		6.0 -1.1	3,043 330	2,704 271	4,052 280	3,011 308	23,934 2,275	23,950 2,465				
Audio and video equipment	371	365	359	1.6		-0.6	352	323	345	314	2,581	1,783				
Electronic components	4,905	4,788	4,666	2.4			5,317	4,869	5,346	4,727	37,911	33,725				
Nondefense search and navigation																
equipment	1,370	1,395	1,367	-1.8	2.0	3.2	1,421	1,183	1,528	1,323	10,771	9,781	10.1			
Defense search and navigation equipment	2,564	2,676	2,575	-4.2	3.9	0.7	2,600	2,477	2,850	2,653	19,777	19,543	1.2			
Electromedical, measuring,	_,	_,	_,				_,	_,	_,	_,,		,				
and control instruments	9,287	9,245	9,019	0.5	2.5	-0.5	8,976	8,366	10,262	8,238	70,304	65,806	6.8			
Electrical equipment, appliances,	0.540	0.500	0.450	0.0	0.7	0.0	40.004	0.070	40.000	40.000	75 475	04 500	7.4			
and components Electric lighting equipment	9,548 1,093	9,520 1,098	9,453 1,079	0.3 -0.5			10,081 1,150	9,072 1,070	10,290 1,072	10,260 1,085	75,475 8,402	81,526 7,961	-7.4 5.5			
Household appliances	1,374	1,364	1,382	0.7			1,437	1,267	1,501	1,520	11,000	12,406				
Electrical equipment	2,883	2,881	2,911	0.1			2,997	2,654	3,384	3,174	23,496	25,908				
Batteries	820	795	790	3.1			865 84,240	680	813	823	6,073	6,398				
Transportation equipment Automobiles	80,082 9,516	80,779 9,436	81,056 9,603	-0.9 0.8		1.3 3.6	10,195	67,557 7,189	89,697 10,552	84,071 10,805	641,966 78,153	636,300 84,719				
Light trucks and utility vehicles	15,246	14,999	14,610	1.6			16,731	11,793	15,676	16,018	120,638	115,195				
Heavy duty trucks	2,033	2,099	2,221	-3.1	-5.5	-2.5	2,142	2,000	2,453	2,674	18,239					
Motor vehicle bodies, parts,	00.004	20.000	00.575	0.4	4.0	2.0	20.000	04.400	20 500	07.005	005.040	205 540	0.0			
and trailers Nondefense aircraft and parts	28,264 12,992	28,223 14,028	28,575 13,862	0.1 -7.4		3.2 -4.7	30,602 12,737	24,136 11,999	30,502 16,843	27,285 14,552	225,216 105,446	205,542 109,661	9.6 -3.8			
Defense aircraft and parts	4,417	4,052	4,156	9.0			4,208	3,472	4,926	4,935	32,658	36,872				
Ships and boats	3,126		2,853				3,107	2,947	3,037	2,836						
Furniture and related products	6,290	6,269	6,272	0.3		-0.5 -0.7	6,796	6,328	6,481	6,658	50,543	48,438				
Miscellaneous durable goods	12,927	12,922	13,247	0.0	-2.5	-0.7	12,904	12,011	14,110	12,937	104,655	105,290	-0.6			
Nondurable goods industries	225,878	225,443	227,276	0.2	-0.8	0.8	236,600	223,053	236,121	236,939	1,801,475	1,888,300	-4.6			
Food products	64,998	64,960	64,993	0.1	-0.1	0.2	66,306	62,056	64,228	65,288	510,378	508,270	0.4			
Grain and oilseed milling	7,890	8,087	8,229	-2.4		1.7	8,327	7,550	7,809	8,303	62,792	62,290				
Dairy products	9,286		8,959	1.5		-0.7	9,573	8,919	8,861	9,331	72,056	72,770 149,430				
Meat, poultry, and seafood products Beverage and tobacco products	17,756 12,601	17,791 12,472	18,031 12,345	-0.2 1.0		0.0 2.9	18,064 13,136	17,577 12,543	18,503 13,126	18,618 12,440	142,334 97,949	- ,	-4.7 0.9			
Beverages	9,517	9,444	9,271	0.8			10,052	9,515	10,052	9,404	74,331	72,111				
Tobacco	3,084	3,028	3,074	1.8	-1.5	7.6	3,084	3,028	3,074	3,036	23,618	25,010	-5.6			
Textile mills	2,536	2,499	2,511	1.5		-0.4	2,676	2,459	2,691	2,686	20,478	20,922				
Textile products	2,018 1,079	1,982 1,075	1,981 1,076	1.8 0.4		0.1 -1.3	2,124 1,200	2,019 1,073	2,120 1,012	2,165 1,126	16,184 8,119	16,683 7,618				
Leather and allied products	337	331	338	1.8		-0.9	345	326	358	376	2,732	3,234				
Paper products	15,055	15,027	15,190	0.2	-1.1	-0.2	15,860	14,913	15,636	15,624	121,881	121,869	0.0			
Pulp, paper, and paperboard mills	6,664	6,699	6,753	-0.5			7,062	6,720	6,895	7,064	54,307	54,961	-1.2			
Paperboard containers	4,631 7.174	4,579 7 111	4,632 7,147	1.1 0.9		-0.3	4,934 7,404	4,577 6,621	4,857 7,073	4,770 7,207	37,473 56 564	37,059 56,328				
Printing Petroleum and coal products	7,174 35,079	7,111 34,977	36,232	0.9		-0.3 2.9	38,445	38,160	40,003	7,207 44,096	56,564 276,473	377,792				
Petroleum refineries	31,260	31,122	32,478	0.4		3.0	33,784	33,960	35,696	40,220	246,966	350,523				
Chemical products	65,833	65,799	66,259	0.1	-0.7	0.4	68,628	63,878	69,223	66,301	535,524	523,409				
Pesticides, fertilizers, and other	4.040	4 405	4.000				0.004	0.004	4044	0.000	05.050	00.500				
agricultural chemicals Pharmaceuticals and medicines	4,248 21,430	4,135 21,481	4,066 21,574	2.7 -0.2		1.4 0.0	3,684 22,389	3,334 20,672	4,244 22,265	3,296 20,469	35,858 172,628	33,502 149,976				
Paints, coatings, and adhesives	3,641	3,615	3,612	0.7		-1.3	3,931	3,687	3,997	3,616	30,148					
Plastics and rubber products	19,168	19,210	19,204	-0.2		0.7	20,476	19,005	20,651	19,630	155,193	155,054	0.1			
				<u> </u>		1						1				

^p Preliminary ^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.

See note at end of Table 2 relating to survey error and revision.

² Estimates and percent changes of shipments for the semiconductor industry are included in computers and electronic products, and all other applicable aggregate totals.

Table 2. Value of Manufacturers' New Orders for Industry Groups¹

	Seasonally		lanufactu		Not Seasonally Adjusted								
	Monthly			Per	cent Chan	ge		Mon	thly	Year to date			
Industry	Aug. 2016 ^p	July 2016 ^r	June 2016	July - Aug.	June - July	May - June	Aug. 2016 ^p	July 2016 ^r	June 2016	Aug. 2015	2016 ^p	2015	% Change 2016/ 2015
All manufacturing industries ²	453,135	452,391	446,331	0.2	1.4	-1.8	466,880	430,190	477,376	461,892	3,609,139	3,705,893	-2.6
Excluding transportation ²	374,931	374,758	375,014	0.0	-0.1	0.4	389,585	364,865	395,571	387,004	2,999,624	3,099,679	-3.2
Excluding defense ²	438.812	440,164	435,955	-0.3	1.0	-1.6	455,233	420,532	462,786	454,153	3,513,787	3,623,502	-3.0
With unfilled orders ²	163,391	163,299	155,169	0.1	5.2	-6.2	162,531	150,254	171,631	157,824	1,290,049	1,297,650	-0.6
Durable goods industries ²	227,257	226,948	219,055	0.1	3.6	-4.3	230,280	207,137	241,255	224,953	1,807,664	1,817,593	-0.5
Primary metals	17,891	17,818	17,599	0.4	1.2	-1.0	18,555	17,028	18,410	18,608	146,040	159,172	-8.3
Iron and steel mills	8,254	8,129	7,943	1.5	2.3	-4.5	8,478	7,641	8,278	8,412	67,170	74,819	-10.2
Aluminum and nonferrous metals	8,185	8,295	8,224	-1.3	0.9			8,070	8,582	8,577	66,430	71,239	
Ferrous metal foundries	1,452	1,394	1,432	4.2	-2.7	-8.0	1,487	1,317	1,550	1,619	12,440	13,114	-5.1
Fabricated metal products	30,196	30,296	29,889	-0.3	1.4			29,351	31,352	29,630	244,187	238,501	2.4
Machinery Construction machinery Mining, oil field, and	29,538 2,306	29,671 2,385	29,390 2,507	-0.4 -3.3	1.0 -4.9		29,853 2,376	27,645 2,082	31,336 2,509	31,233 3,432	240,879 20,768	255,324 27,175	-5.7 -23.6
gas field machinery	839	791	533	6.1	48.4	223.0	906	701	662	1,290	5,637	13,118	-57.0
Industrial machinery	2,381	2,234	2,195	6.6				2,079	2,571	2,239	18,401	17,975	
Photographic equipment	439	414	391	6.0	5.9	-8.6	468	379	345	458	3,235	3,504	-7.7
Ventilation, heating, air-conditioning,													
and refrigeration equipment	3,264	3,620	3,370	-9.8	7.4			3,799	4,097	3,636	28,089	29,265	
Metalworking machinery	3,163	3,199	3,129	-1.1	2.2	3.1	3,304	2,843	3,232	2,869	24,626	21,027	17.1
Turbines, generators, and other													
power transmission equipment	4,015	4,045	4,074	-0.7	-0.7	-0.3	4,012	3,952	4,277	4,224	32,493	34,005	
Material handling equipment	3,044	3,071	3,012	-0.9	2.0			2,622	3,119	2,610	23,992	21,513	
Computers and electronic products ²	24,310	24,464	23,865	-0.6				21,917	27,571	22,603	187,627	181,951	3.1
Computers	583	595	552	-2.0	7.8	-8.5	552	545	731	751	4,582	6,314	-27.4
Nondefense communications	3,369	3,382	3,423	-0.4	-1.2	-0.9	2,862	2,871	3,985	3.096	25.700	26,624	-3.1
equipment Defense communications equipment	282	3,382 265	3,423	-0.4 6.4	-1.2 -15.3			2,871	3,985	3,096	25,788 2,313	2,563	-3.1 -9.8
Electronic components	4,833	4,923	4,590	-1.8	7.3			5,075	5,113	4,820	38,146	34,288	
Nondefense search and navigation	4,000	4,323	4,550	-1.0	7.5	-2.0	5,520	3,073	3,113	4,020	30,140	34,200	11.5
equipment	1,463	1,500	1,464	-2.5	2.5	6.2	1,465	1,306	1,714	1,517	11,549	11,716	-1.4
Defense search and navigation	.,	.,	.,			I	.,	1,000	.,	.,	,	,	
equipment	2,583	2,413	2,514	7.0	-4.0	-6.7	2,285	1,982	2,900	2,324	20,405	18,819	8.4
Electromedical, measuring,													
and control instruments	9,314	9,396	9,188	-0.9	2.3	0.7	8,540	8,337	10,350	8,015	70,723	66,995	5.6
Electrical equipment, appliances,													
and components	9,612	9,837	9,491	-2.3	3.6		10,089	9,135	10,320	10,191	76,860	81,578	
Electric lighting equipment	1,077	1,081	1,070	-0.4	1.0		1,135	1,043	1,069	1,093	8,453	7,978	
Household appliances	1,398	1,452	1,443	-3.7	0.6		1,474	1,296	1,490	1,413	11,029	12,258	-10.0
Electrical equipment	2,841	2,907	2,848	-2.3 0.7	2.1 8.9			2,737	3,300 81,805	3,203	23,581 609,515	26,579	-11.3 0.5
Transportation equipment Motor vehicle bodies, parts, and trailers	78,204 28,245	77,633 28,048	71,317 28,329	0.7	-1.0		77,295 30,851	65,325 23,595	29,780	74,888 27,425	223,142	606,214 204,566	
Nondefense aircraft and parts	28,245 8,806	28,048 11,394	6,591	-22.7	72.9		5,310	23,595 11,710	9,228	10,663	76,878	204,566 94,688	
Defense aircraft and parts	5,641	4,444	3,643	26.9	22.0		4,062	3,419	5,634	3,210	34,715	29,983	15.8
Ships and boats	3,420	2,965	2,667	15.3			3,076	2,556	3,362	1,367	22,358	18,806	
Furniture and related products	6,406	6,192	6,161	3.5	0.5			6,066	6,308	6,245	51,407	48,959	5.0
Nondurable goods industries	225,878	225,443	227,276	0.2				223,053	236,121	236,939	1,801,475	1,888,300	

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

Note: 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/>.

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 Data on new orders are not available for the semiconductor industry. Estimates and percent changes for new orders exclude semiconductor industry data.

Table 3. Value of Manufacturers' Unfilled Orders for Industry Groups¹

Lestimates are shown in millions of do	l and and an		Seasonally A		20141010	, in prinorite	Not Seasonally Adjusted						
		Monthly		Pe	rcent Chan	ge		Mon	ithly		% Change		
Industry	Aug. 2016 ^p	July 2016 ^r	June 2016	July - Aug.	June - July	May - June	Aug. 2016 ^p	July 2016 ^r	June 2016	Aug. 2015	August 2016/ 2015		
All manufacturing industries ²	1,123,200	1,124,837	1,127,237	-0.1	-0.2	-0.9	1,115,704	1,125,462	1,128,022	1,138,644	-2.0		
Excluding transportation ²	354,147	353,906	353,160	0.1	0.2	-0.2	353,297	356,110	356,438	352,637	0.2		
Excluding defense ²	948,810	952,150	954,166	-0.4	-0.2	-0.9	942,784	951,820	952,755	966,250	-2.4		
Durable goods industries ²	1,123,200	1,124,837	1,127,237	-0.1	-0.2	-0.9	1,115,704	1,125,462	1,128,022	1,138,644	-2.0		
Primary metals	32,546	32,412	32,476	0.4	-0.2	-0.8	32,360	32,769	32,951	32,488	-0.4		
Iron and steel mills	18,374	18,144	18,169	1.3	-0.1	-1.1	18,325	18,516	18,781	17,061	7.4		
Aluminum and nonferrous metals	10,406	10,490	10,468	-0.8	0.2	-0.1	10,293	10,441	10,328	11,848	-13.1		
Ferrous metal foundries	3,766	3,778	3,839	-0.3	-1.6	-1.4	3,742	3,812	3,842	3,579			
Fabricated metal products	74,053	74,072	73,862	0.0	0.3	0.1	74,706	75,332	75,041	74,224			
Machinery	92,470	92,783	92,825	-0.3	0.0	-0.6	92,258	92,719	92,895	98,984			
Construction machinery	4,137	4,291	4,335	-3.6	-1.0	-4.4	3,949	4,035	4,214	6,040	-34.6		
Mining, oil field, and gas field machinery	5,911	5,952	5.991	-0.7	-0.7	-5.2	5,966	5,960	6,036	10,229	-41.7		
Industrial machinery	7,389	7,507	7,698	-1.6	-2.5	-1.7	7,387	7,617	7,788	8,707	-15.2		
Photographic equipment	1,187	1,169	1,176	1.5	-0.6	-2.8	1,203	1,161	1,153	1,371	-12.3		
Ventilation, heating, air-conditioning,													
and refrigeration equipment	6,231	6,522	6,351	-4.5	2.7	0.5	6,100	6,505	6,383	6,044			
Metalworking machinery	7,419	7,320	7,237	1.4	1.1	1.0	7,420	7,356	7,256	6,922	7.2		
Turbines, generators, and other													
power transmission equipment	25,629	25,575	25,625	0.2	-0.2	0.0	25,608	25,649	25,641	25,457			
Material handling equipment	12,086	11,994	11,912	0.8	0.7	-0.1	11,967	12,028	12,190	11,018	8.6		
Computers and electronic products ²	129,075	128,819	128,423	0.2	0.3	0.2	128,075	129,045	129,113	122,205	4.8		
Computers	2,379	2,395	2,403	-0.7	-0.3	-0.3	2,379	2,395	2,403	2,381	-0.1		
Nondefense communications													
equipment	32,855	32,594	32,289	0.8	0.9	0.5	32,379	32,560	32,393	29,388	10.2		
Defense communications equipment	2,245	2,301	2,330	-2.4	-1.2	1.3	2,275	2,344	2,376	2,387	-4.7		
Electronic components Nondefense search and navigation	12,098	12,170	12,035	-0.6	1.1	-0.6	12,189	12,186	11,980	11,960	1.9		
equipment	17,834	17,741	17,636	0.5	0.6	0.6	17,903	17,859	17,736	16,747	6.9		
Defense search and navigation equipment	28,257	28,238	28,501	0.1	-0.9	-0.2	27,983	28,298	28,793	27,097	3.3		
Electromedical, measuring,	20,20.	20,200	20,00.	0	0.0	0.2	2.,000	20,200	20,700	2.,00.	0.0		
and control instruments	33,407	33,380	33,229	0.1	0.5	0.5	32,967	33,403	33,432	32,245	2.2		
Electrical equipment, appliances,	55,151	55,555					0_,00			02,210			
and components	17,705	17,641	17,324	0.4	1.8	0.2	17,688	17,680	17,617	16,804	5.3		
Electric lighting equipment	1,307	1,323	1,340	-1.2	-1.3	-0.7	1,319	1,334	1,361	1,290			
Household appliances	1,218	1,194	1,106	2.0	8.0	5.8	1,180	1,143	1,114	1,072			
Electrical equipment	7,907	7,949	7,923	-0.5	0.3	-0.8	7,948	8,054	7,971	8,088			
Transportation equipment	769,053	770,931	774,077	-0.2	-0.4	-1.2	762,407	769,352	771,584	786,007			
Motor vehicle bodies, parts,	,	-,	,-		-		, ,	,	,	,			
and trailers	21,975	21,994	22,169	-0.1	-0.8	-1.1	21,485	21,236	21,777	23,019	-6.7		
Nondefense aircraft and parts	586,876	591,062	593,696	-0.7	-0.4	-1.2	582,068	589,495	589,784	600,926			
Defense aircraft and parts	71,973	70,749	70,357	1.7	0.6	-0.7	70,675	70,821	70,874	63,117	12.0		
Ships and boats	16,829	16,535	16,722	1.8	-1.1	-1.1	16,863	16,894	17,285	25,298			
Furniture and related products	8,046	7,930	8,007	1.5	-1.0	-1.4	7,958	8,316	8,578	7,691	3.5		
			•								<u> </u>		

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 Data on unfilled orders are not available for the semiconductor industry. Estimates and percent changes for unfilled orders exclude semiconductor industry data. See note at end of Table 2 relating to survey error and revision.

Table 4. Value of Manufacturers' Inventories for Industry Groups¹

			Seasonally A								
		Monthly		Pe	ercent Chan	ge		Mon	thly		% Change
Industry	Aug. 2016 ^p	July 2016 ^r	June 2016	July - Aug.	June - July	May - June	Aug. 2016 ^p	July 2016 ^r	June 2016	Aug. 2015	August 2016/ 2015
All manufacturing industries	621,952	620,953	619,472	0.2	0.2	0.0	627,284	625,169	616,964	641,370	-2.2
Excluding transportation	498,395	497,184	496,325	0.2	0.2	0.2	502,797	500,543	495,096	514,482	-2.3
Excluding defense With unfilled orders	596,500 311,531	595,074 311,123	594,381 309,757	0.2 0.1	0.1 0.4	0.1 -0.5	601,716 314,750	598,956 314,148	591,612 308,053	613,990 323,874	-2.0 -2.8
								·	378.959	· ·	
Durable goods industries	383,821	383,221	381,715	0.2	0.4	-0.1	387,258	386,083	,	395,748	-2.1
Wood products	11,414	11,284	11,217	1.2	0.6	0.7	11,302	11,111	10,984	11,194	1.0
Nonmetallic mineral products Primary metals	13,124 31,911	13,032 31,648	12,991 31,253	0.7 0.8	0.3 1.3	0.2 0.1	13,023 32,034	13,041 31,751	13,093 30,828	12,776 35,305	1.9 -9.3
Iron and steel mills	17,467	17,251	16,924	1.3	1.9	-0.2	17,525	17,278	16,571	20,235	-13.4
Aluminum and nonferrous metals	12,385	12,321	12,244	0.5	0.6	0.5	12,453	12,406	12,191	12,985	-4.1
Ferrous metal foundries Fabricated metal products	2,059 49,119	2,076 49,107	2,085 48,788	-0.8 0.0	-0.4 0.7	-0.8 0.5	2,056 49,166	2,067 49,503	2,066 48,691	2,085 49,442	-1.4 -0.6
Machinery	65,662	65,350	65,649	0.5	-0.5	0.4	66,598	65,865	65,157	69,204	-3.8
Farm machinery	2,941	2,893	2,912	1.7	-0.7	-2.4	2,879	2,823	2,972	3,383	-14.9
Construction machinery Mining, oil field,	5,580	5,481	5,441	1.8	0.7	1.2	5,546	5,419	5,410	6,549	-15.3
and gas field machinery	7,382	7,233	7,189	2.1	0.6	1.0	7,509	7,277	7,256	7,974	-5.8
Industrial machinery	6,431	6,383	6,419	0.8	-0.6	1.6	6,483	6,319	6,392	6,420	1.0
Photographic equipment	1,571	1,583	1,586	-0.8	-0.2	-0.2	1,637	1,623	1,547	1,605	2.0
Ventilation, heating, air-conditioning, and refrigeration equipment	4,380	4,339	4,384	0.9	-1.0	-0.9	4,408	4,404	4,433	4,683	-5.9
Metalworking machinery	5,715	5,684	5,624	0.5	1.1	0.1	5,831	5,740	5,599	5,847	-0.3
Turbines, generators, and other											
power transmission equipment Material handling equipment	9,284 4,624	9,377 4,613	9,663 4,637	-1.0 0.2	-3.0 -0.5	0.8 -1.4	9,612 4,812	9,592 4,763	9,263 4,671	10,104 4,492	-4.9 7.1
Computers and electronic products ²	42,563	42,568	42,708	0.2	-0.3	0.0	43,406	43,156	42,379	43,942	-1.2
Computers	1,633	1,589	1,570	2.8	1.2	3.1	1,732	1,691	1,590	1,550	11.7
Computer storage devices	981	984	986	-0.3	-0.2	-2.8	1,028	1,009	957	1,168	-12.0
Other peripheral equipment Nondefense communications	1,035	1,034	1,031	0.1	0.3	-0.5	1,067	1,055	1,007	1,165	-8.4
equipment	3,994	3,972	3,984	0.6	-0.3	-2.7	4,078	3,966	3,907	4,365	-6.6
Defense communications equipment	565	602	617	-6.1	-2.4	3.7	565	602	617	755	-25.2
Audio and video equipment	792 7,687	793 7,685	787 7,746	-0.1 0.0	0.8 -0.8	1.8 1.6	854 7,704	806 7,805	737 7,679	805 7,630	6.1 1.0
Electronic components Nondefense search and navigation	7,007	7,000	7,740	0.0	-0.6	1.0	7,704	7,000	7,679	7,030	1.0
equipment	3,063	3,055	3,071	0.3	-0.5	-0.2	3,118	3,095	3,046	3,154	-1.1
Defense search and navigation	0.055	0.055	0.070			0.0	0.070	0.055	0.000	0.000	
equipment Electromedical, measuring	2,955	2,955	2,976	0.0	-0.7	2.2	2,976	3,055	3,000	2,889	3.0
and control instruments	13,994	14,053	14,097	-0.4	-0.3	0.1	14,463	14,248	13,991	14,969	-3.4
Electrical equipment, appliances,											
and components	16,177 2,005	16,350 2,001	16,175 1,999	-1.1 0.2	1.1 0.1	-0.7 0.2	16,475 2,036	16,639 2,058	16,180 1,998	17,050 1,961	-3.4 3.8
Electric lighting equipment Household appliances	2,238	2,220	2,230	0.2	-0.4	-1.2	2,333	2,038	2,246	2,341	-0.3
Electrical equipment	4,869	4,863	4,890	0.1	-0.6	-0.5	4,896	4,909	4,848	5,107	-4.1
Batteries	1,300	1,315	1,329	-1.1	-1.1	-1.4	1,399	1,386	1,354	1,524	-8.2
Transportation equipment Automobiles	123,557 4,383	123,769 4,682	123,147 4,933	-0.2 -6.4	0.5 -5.1	-0.8 18.6	124,487 4,398	124,626 4,671	121,868 4,536	126,888 4,559	-1.9 -3.5
Light trucks and utility vehicles	4,393	4,283	4,311	2.6	-0.6	8.3	4,418	4,261	4,045	4,024	9.8
Heavy duty trucks	2,055	2,091	2,093	-1.7	-0.1	-2.2	2,033	2,069	2,079	2,154	-5.6
Motor vehicle bodies, parts,	23,929	23,857	23,613	0.3	1.0	0.7	24,072	24,034	23,266	24,046	0.1
and trailers Nondefense aircraft and parts	62,365	62,128	62,356	0.3	-0.4	-2.3	62,825	62,538	61,957	63,753	-1.5
Defense aircraft and parts	11,292	11,547	10,742	-2.2	7.5	-3.5	11,303	11,629	10,744	12,180	-7.2
Ships and boats	2,948	2,950	2,946	-0.1	0.1	0.1	2,931	2,931	2,998	2,815	4.1
Furniture and related products	7,143 23,151	7,137 22,976	7,148 22,639	0.1 0.8	-0.2 1.5	-0.3 0.2	7,302 23,465	7,338 23,053	7,343 22,436	7,226 22,721	1.1 3.3
	· ·										
Nondurable goods industries	238,131	237,732	237,757	0.2	0.0	0.1	240,026	239,086	238,005	245,622	-2.3
Food products	53,842	53,724	53,801	0.2	-0.1	0.3	54,371	53,263	52,310	53,906	0.9
Grain and oilseed milling Dairy products	5,712 7,448	5,730 7,361	5,763 7,322	-0.3 1.2	-0.6 0.5	-1.6 0.2	5,479 7,632	5,537 7,600	5,589 7,561	5,702 7,463	-3.9 2.3
Meat, poultry, and seafood products	8,944	8,993	9,057	-0.5	-0.7	-1.4	9,057	9,043	8,971	9,863	-8.2
Beverage and tobacco products	20,683	20,531	20,473	0.7	0.3	-1.2	20,173	19,765	19,886	20,159	0.1
Beverages Tobacco	16,890 3,793	16,748 3,783	16,687 3,786	0.8 0.3	0.4 -0.1	-1.3 -0.9	16,562 3,611	16,225 3,540	16,250 3,636	16,368 3,791	1.2 -4.7
Textile mills	3,180	3,178	3,176	0.3	0.1	0.3	3,200	3,198	3,195	3,129	2.3
Textile products	3,070	3,069	3,067	0.0	0.1	-0.3	3,081	3,069	3,084	3,071	0.3
Apparel	2,551	2,560	2,561	-0.4	0.0	-0.2	2,696	2,695	2,592	2,509	7.5
Leather and allied products	792 16,119	796 16,194	794 16,132	-0.5 -0.5	0.3 0.4	-0.6 -0.1	807 16,178	807 16,269	806 16,005	844 16,658	-4.4 -2.9
Pulp, paper, and paperboard mills	6,646	6,669	6,613	-0.3	0.4	0.5	6,621	6,684	6,549	6,798	-2.9
Paperboard containers	5,071	5,127	5,123	-1.1	0.1	-0.8	5,081	5,128	5,077	5,289	-3.9
Printing	5,885	5,867	5,894	0.3	-0.5	-0.9	6,067	5,911	5,905	6,055	0.2
Petroleum and coal products Petroleum refineries	25,355 20,717	24,978 20,331	25,107 20,474	1.5 1.9	-0.5 -0.7	0.7 0.6	26,505 21,828	26,472 21,762	27,111 22,417	32,614 27,939	-18.7 -21.9
Chemical products	81,384	81,491	81,429	-0.1	0.1	0.4	81,740	82,248	81,723	81,353	0.5
Pesticides, fertilizers, and other							-				_
agricultural chemicals Pharmaceuticals and medicines	4,208 32,820	4,234 32,903	4,192 32,938	-0.6 -0.3	1.0 -0.1	0.2 1.0	3,993 32,848	3,958 33,276	3,846 33,541	4,255 31,347	-6.2 4.8
Paints, coatings, and adhesives	32,620	3,692	3,696	1.5	-0.1	0.2	3,699	3,722	3,755	3,508	4.6 5.4
	٥,٥	25,344	25,323	-0.3	0.1	-0.1	25,208	25,389	25,388	25,324	-0.5

^p Preliminary ^rRevised data due to late receipts and concurrent seasonal adjustment.

Testimates of shipments and new orders are for the duration of the period, while estimates of shipments 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 Estimates of inventories for the semiconductor industry data are included in computers and electronic products, and all other applicable aggregate totals.

See note at end of Table 2 relating to survey error and revision.

Table 5. Value of Manufacturers' Shipments, New Orders, Unfilled Orders, and Total Inventories for Topical Series^{1, 2}

Estimates are shown in millions of a	Seasonally Adjusted							,		Seasonally			
		Monthly		Per	cent Cha	nge		Mon	thly		Year to	o date	
Industry	Aug. 2016 ^p	July 2016 ^r	June 2016	July - Aug.	June - July	May - June	Aug. 2016 ^p	July 2016 ^r	June 2016	Aug. 2015	2016 ^p	2015	% Change⁶ 2016/ 2015
SHIPMENTS													
All manufacturing industries	458,056	458,002	459,724	0.0	-0.4	0.6	480,345	436,303	490,264	477,743	3,658,059	3,760,302	-2.7
Construction materials and supplies Information technology Computers and related products Motor vehicle and parts	46,602 22,948 1,847 55,059	46,326 23,083 1,948 54,757	46,356 22,616 1,750 55,009	0.6 -0.6 -5.2 0.6	-0.1 2.1 11.3 -0.5	-0.4 0.3 -5.6 2.6	51,286 22,670 1,608 59,670	47,087 20,888 1,531 45,118	51,188 26,113 2,531 59,183	48,659 22,139 1,832 56,782	376,477 175,643 13,925 442,246	368,658 174,522 16,584 427,058	2.1 0.6 -16.0 3.6
Capital goods	80,541 70,217 62,147 10,324	82,021 71,442 62,204 10,579	81,898 71,701 62,642 10,197	-1.8 -1.7 -0.1 -2.4	0.2 -0.4 -0.7 3.7	-0.8 -1.3 -0.4 3.1	81,010 70,768 62,620 10,242	74,832 65,276 57,492 9,556	91,649 80,514 69,366 11,135	85,516 75,546 65,127 9,970	643,901 565,346 498,862 78,555	673,288 598,984 525,498 74,304	-4.4 -5.6 -5.1 5.7
Consumer goods	184,473 37,846 146,627	183,924 37,562 146,362	185,051 37,374 147,677	0.3 0.8 0.2	-0.6 0.5 -0.9	1.2 1.5 1.1	193,117 40,073 153,044	176,568 31,107 145,461	192,092 40,007 152,085	194,471 39,759 154,712	1,460,866 303,764 1,157,102	1,536,329 303,695 1,232,634	-4.9 0.0 -6.1
NEW ORDERS													
All manufacturing industries ⁵	453,135	452,391	446,331	0.2	1.4	-1.8	466,880	430,190	477,376	461,892	3,609,139	3,705,893	-2.6
Construction materials and supplies Information technology Computers and related products Motor vehicle and parts	46,181 23,392 1,831 55,040	46,230 23,557 1,940 54,582	46,265 23,006 1,742 54,763	-0.1 -0.7 -5.6 0.8	-0.1 2.4 11.4 -0.3	-0.4 -0.9 -6.3 2.1	50,288 21,831 1,592 59,919	47,052 20,600 1,523 44,577	50,748 26,451 2,523 58,461	47,958 21,900 1,823 56,922	377,951 180,440 13,857 440,172	370,400 179,532 16,685 426,082	0.5
Capital goods	79,006 67,152 63,523 11,854	79,627 70,020 62,931 9,607	71,926 64,987 62,437 6,939	-0.8 -4.1 0.9 23.4	10.7 7.7 0.8 38.4	-12.4 -10.9 0.5 -24.3	73,988 63,925 62,419 10,063	72,390 64,851 57,273 7,539	83,088 73,114 68,292 9,974	76,086 70,107 62,984 5,979	622,570 543,624 502,711 78,946	651,956 584,599 523,569 67,357	-4.5 -7.0 -4.0 17.2
Consumer goods Consumer durable goods Consumer nondurable goods	184,500 37,873 146,627	184,019 37,657 146,362	185,084 37,407 147,677	0.3 0.6 0.2	-0.6 0.7 -0.9	1.2 1.7 1.1	193,053 40,009 153,044	176,639 31,178 145,461	191,845 39,760 152,085	194,354 39,642 154,712	1,460,920 303,818 1,157,102	1,535,981 303,347 1,232,634	-4.9 0.2 -6.1
UNFILLED ORDERS													
All manufacturing industries ⁵	1,123,200	1,124,837	1,127,237	-0.1	-0.2	-0.9	1,115,704	1,125,462	1,128,022	1,138,644	(X)	(X)	-2.0
Construction materials and supplies Information technology Computers and related products Motor vehicle and parts	45,484 125,437 2,379 21,975	45,905 124,993 2,395 21,994	46,001 124,519 2,403 22,169	-0.9 0.4 -0.7 -0.1	-0.2 0.4 -0.3 -0.8	-0.2 0.3 -0.3 -1.1	45,781 124,330 2,379 21,485	46,779 125,169 2,395 21,236	46,814 125,457 2,403 21,777	45,850 117,970 2,381 23,019	(X) (X) (X) (X)	(X) (X) (X) (X)	-0.2 5.4 -0.1 -6.7
Capital goods Nondefense capital goods ³ Excluding aircraft Defense capital goods ⁴	833,585 696,353 222,341 137,232	835,120 699,418 220,965 135,702	837,514 700,840 220,238 136,674	-0.2 -0.4 0.6 1.1	-0.3 -0.2 0.3 -0.7	-1.2 -0.9 -0.1 -2.3	829,545 692,750 221,535 136,795	836,567 699,593 221,736 136,974	839,009 700,018 221,955 138,991	861,278 722,264 223,850 139,014	(X) (X) (X) (X)	(X) (X) (X) (X)	-3.7 -4.1 -1.0 -1.6
Consumer goods	4,449 4,449	4,422 4,422	4,327 4,327	0.6 0.6	2.2 2.2	0.8 0.8	4,246 4,246	4,310 4,310	4,239 4,239	3,980 3,980	(X)	(X) (X)	6.7 6.7
TOTAL INVENTORIES	4,449	4,422	4,327	0.6	2.2	0.6	4,240	4,310	4,239	3,960	(X)	(^)	6.7
All manufacturing industries	621,952	620,953	619,472	0.2	0.2	0.0	627,284	625,169	616,964	641,370	(X)	(X)	-2.2
Construction materials and supplies	65,643	65,296	64,913	0.5	0.6	0.3	65,553	65,561	64,829	65,466	(X)	(X)	
Information technology. Computers and related products Motor vehicle and parts	36,550 3,649 34,760	36,773 3,607 34,913	36,631 3,587 34,950	-0.6 1.2 -0.4	0.4 0.6 -0.1	-0.1 0.4 3.6	37,538 3,827 34,921	37,348 3,755 35,035	36,327 3,554 33,926	38,758 3,883 34,783	(X) (X) (X)	(X) (X) (X) (X)	
Capital goods Nondefense capital goods ³ Excluding aircraft Defense capital goods ⁴	190,365 169,654 118,556 20,711	190,460 169,334 118,394 21,126	189,734 169,427 118,167 20,307	0.0 0.2 0.1 -2.0	0.4 -0.1 0.2 4.0	-0.9 -0.7 0.2 -2.3	193,012 172,196 120,754 20,816	192,393 171,015 119,620 21,378	189,235 168,669 117,483 20,566	199,218 176,742 123,853 22,476	(X) (X) (X) (X)	(X) (X) (X) (X)	-3.1 -2.6 -2.5 -7.4
Consumer goods Consumer durable goods Consumer nondurable goods	177,708 29,760 147,948	177,222 29,786 147,436	177,652 30,067 147,585	0.3 -0.1 0.3	-0.2 -0.9 -0.1	0.8 3.5 0.3	179,541 30,165 149,376	178,038 29,797 148,241	177,180 29,178 148,002	183,093 29,478 153,615	(X) (X) (X)	(X) (X) (X)	-1.9 2.3 -2.8

X Not Applicable Preliminary

See note at end of Table 2 relating to survey error and revision.

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 Topical series are regroupings of the separate industry categories.

³ Nondefense capital goods industries include: 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, 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.

⁴Defense capital goods industries include: small arms and ordnance; communications equipment; aircraft; missiles, space vehicles, and parts; ships and boats; and search and navigation equipment.

⁵ Estimates and percent changes exclude semiconductor industry data.

⁶ Based on year-to-date for shipments and new orders, but on same month prior year for unfilled orders and inventories.

Table 6. Value of Manufacturers' Inventories, by Stage of Fabrication, by Industry Group¹

			Seasonally A	djusted				Not S	easonally Adj	usted	
	Monthly Percent Change							Mor	ithly		% Change
Industry	Aug. 2016 ^p	July 2016 ^r	June 2016	July - Aug.	June - July	May - June	Aug. 2016 ^p	July 2016 ^r	June 2016	Aug. 2015	August 2016/ 2015
MATERIALS AND SUPPLIES											
All manufacturing industries	208,754	209,615	207,339	-0.4	1.1	0.2	209,742	210,588	205,725	211,221	-0.7
Durable goods industries	130,349	130,872	128,776	-0.4	1.6	0.5	131,489	131,610	127,158	132,216	-0.5
Wood products	4,696	4,643	4,603	1.1	0.9	1.1	4,721	4,585	4,386	4,693	0.6
Nonmetallic mineral products Primary metals	5,240 12,859	5,216 12,535	5,270 12,459	0.5 2.6	-1.0 0.6	-0.5 1.7	5,239 12,837	5,224 12,464	5,294 12,230	5,258 13,142	-0.4 -2.3
Fabricated metal products	18,081	17,995	17,750	0.5	1.4	0.4	18,122	18,113	17,668	18,115	0.0
Machinery Computers and electronic products	23,624 17,540	23,783 17,642	23,992 17,532	-0.7 -0.6	-0.9 0.6	-0.5 0.2	24,002 17,738	24,294 17,835	23,954 17,311	26,149 17,207	-8.2 3.1
Electrical equipment, appliances,				0.0							
and components	6,453 30,724	6,537 31,426	6,490 29,702	-1.3 -2.2	0.7 5.8	-0.7 1.5	6,556 30,995	6,641 31,211	6,450 28,843	7,075 29,473	-7.3 5.2
Transportation equipment Furniture and related products	3,644	3,642	3,603	0.1	1.1	-0.2	3,676	3,695	3,644	3,657	0.5
Miscellaneous products	7,488	7,453	7,375	0.5	1.1	0.2	7,603	7,548	7,378	7,447	2.1
Nondurable goods industries	78,405	78,743	78,563	-0.4	0.2	-0.3	78,253	78,978	78,567	79,005	-1.0
Food products Beverage and tobacco products	18,132 5,047	18,271	18,365 5,022	-0.8	-0.5	-1.8	17,862	18,076 4,787	18,056	17,890	-0.2 0.2
Textiles	1,162	5,053 1,165	1,155	-0.1 -0.3	0.6 0.9	0.1 0.6	4,801 1,171	4,787 1,168	4,843 1,163	4,792 1,185	-1.2
Textile products	1,060	1,066	1,070	-0.6	-0.4	0.1	1,063	1,068	1,080	1,069	-0.6
Apparel Leather and allied products	685 236	690 238	686 239	-0.7 -0.8	0.6 -0.4	-1.9 0.4	704 242	705 243	696 238	756 252	-6.9 -4.0
Paper products	8,252	8,254	8,217	0.0	0.5	-0.3	8,258	8,255	8,129	8,456	-2.3
Printing	2,676	2,675 5,963	2,710 5,974	0.0 -1.9	-1.3 -0.2	-1.9 3.7	2,731 6,062	2,715 6,255	2,732	2,909 7,144	-6.1 -15.1
Petroleum and coal products Chemical products	5,849 25,250	25,336	25,104	-0.3	0.2	-0.1	25,315	6,255 25,622	6,466 25,136	7,144 24,412	3.7
Plastics and rubber products	10,056	10,032	10,021	0.2	0.1	-0.2	10,044	10,084	10,028	10,140	-0.9
WORK IN PROCESS											
All manufacturing industries	191,677	190,486	191,821	0.6	-0.7	-1.2	192,919	192,178	191,652	201,409	-4.2
Durable goods industries	143,046	142,480	143,367	0.4	-0.6	-1.9	144,567	144,379	143,387	151,973	-4.9
Wood products	2,214	2,196	2,193	0.4	0.1	-0.2	2,190	2,187	2,208	2,149	1.9
Nonmetallic mineral products	1,492	1,468	1,450	1.6	1.2	-0.3	1,488	1,478	1,476	1,432	3.9
Primary metals Fabricated metal products	9,255 12,870	9,151 12,865	9,052 12,882	1.1 0.0	1.1 -0.1	-2.9 0.8	9,410 12,991	9,328 12,979	9,061 12,845	11,086 13,045	-15.1 -0.4
Machinery	19,201	19,321	19,273	-0.6	0.2	3.6	19,597	19,435	19,000	19,275	1.7
Computers and electronic products Electrical equipment, appliances,	13,163	13,023	13,107	1.1	-0.6	-2.3	13,431	13,365	13,318	14,723	-8.8
and components	3,427	3,518	3,453	-2.6	1.9	0.3	3,487	3,557	3,457	3,581	-2.6
Transportation equipment	76,388	75,977	77,061	0.5	-1.4	-3.6	76,854	77,057	77,096	81,829	-6.1
Furniture and related products Miscellaneous products	1,094 3,942	1,068 3,893	1,090 3,806	2.4 1.3	-2.0 2.3	2.0 0.1	1,104 4,015	1,083 3,910	1,103 3,823	1,020 3,833	8.2 4.7
Nondurable goods industries	48,631	48,006	48,454	1.3	-0.9	0.9	48,352	47,799	48,265	49,436	-2.2
Food products	6,130	6,081	6,128	0.8	-0.8	1.6	5,670	5,632	5,531	5,646	0.4
Beverage and tobacco products	7,639	7,549	7,525	1.2	0.3	-1.4	7,136	6,962	7,105	7,115	0.3
Textiles Textile products	660 443	671 442	691 444	-1.6 0.2	-2.9 -0.5	-0.3 0.0	667 446	679 443	690 442	692 434	-3.6 2.8
Apparel	335	326	318	2.8	2.5	-1.5	356	349	339	355	0.3
Leather and allied products Paper products	109 1,233	108 1,254	106 1,260	0.9 -1.7	1.9 -0.5	0.0 -0.2	109 1,255	109 1,269	105 1,267	110 1,338	-0.9 -6.2
Printing	1,555	1,574	1,588	-1.2	-0.9	-0.2	1,675	1,595	1,539	1,582	5.9
Petroleum and coal products	8,025	7,884	8,196	1.8	-3.8	3.8	8,447	8,389	8,710	10,726	-21.2
Chemical products	19,454 3,048	19,089 3,028	19,172 3,026	1.9 0.7	-0.4 0.1	0.7 0.4	19,546 3,045	19,330 3,042	19,494 3,043	18,479 2,959	5.8 2.9
FINISHED GOODS		·					·		·	·	
All manufacturing industries	221,521	220,852	220,312	0.3	0.2	0.8	224,623	222,403	219,587	228,740	-1.8
-							·				
Durable goods industries Wood products	110,426 4,504	109,869 4,445	109,572 4,421	0.5 1.3	0.3 0.5	1.4 0.8	111,202 4,391	110,094 4,339	108,414 4,390	111,559 4,352	-0.3 0.9
Nonmetallic mineral products	6,392	6,348	6,271	0.7	1.2	0.9	6,296	6,339	6,323	6,086	3.5
Primary metals	9,797	9,962	9,742	-1.7	2.3	0.9	9,787	9,959	9,537	11,077	-11.6
Fabricated metal products	18,168 22,837	18,247 22,246	18,156 22,384	-0.4 2.7	0.5 -0.6	0.3 -1.3	18,053 22,999	18,411 22,136	18,178 22,203	18,282 23,780	-1.3 -3.3
Computers and electronic products	11,860	11,903	12,069	-0.4	-1.4	2.2	12,237	11,956	11,750	12,012	1.9
Electrical equipment, appliances, and components	6,297	6,295	6,232	0.0	1.0	-1.2	6,432	6,441	6,273	6,394	0.6
Transportation equipment	16,445	16,366	16,384	0.5	-0.1	9.6	16,638	16,358	15,929	15,586	6.7
Furniture and related products	2,405	2,427	2,455	-0.9	-1.1	-1.4	2,522	2,560	2,596	2,549	-1.1
Miscellaneous products	11,721	11,630	11,458	0.8	1.5	0.2	11,847	11,595	11,235	11,441	3.5
Nondurable goods industries	111,095 29,580	110,983 29,372	110,740 29,308	0.1 0.7	0.2 0.2	0.1 1.3	113,421 30,839	112,309 29,555	111,173 28,723	117,181 30,370	-3.2 1.5
Food products Beverage and tobacco products	29,580 7,997	7,929	29,308 7,926	0.7	0.2	1.3 -1.8	30,839 8,236	29,555 8,016	7,938	30,370 8,252	1.5 -0.2
Textiles	1,358	1,342	1,330	1.2	0.9	0.3	1,362	1,351	1,342	1,252	8.8
Textile products	1,567 1,531	1,561 1,544	1,553 1,557	0.4 -0.8	0.5 -0.8	-0.6 0.8	1,572 1,636	1,558 1,641	1,562 1,557	1,568 1,398	0.3 17.0
Leather and allied products	447	450	449	-0.8	0.2	-1.3	456	455	463	482	-5.4
Paper products	6,634	6,686	6,655	-0.8	0.5	0.2	6,665	6,745	6,609	6,864	-2.9
Printing Petroleum and coal products	1,654 11,481	1,618 11,131	1,596 10,937	2.2 3.1	1.4 1.8	0.2 -2.9	1,661 11,996	1,601 11,828	1,634 11,935	1,564 14,744	6.2 -18.6
Chemical products	36,680	37,066	37,153	-1.0	-0.2	0.6	36,879	37,296	37,093	38,462	-10.0
Plastics and rubber products	12,166	12,284	12,276	-1.0	0.1	-0.1	12,119	12,263	12,317	12,225	-0.9

Preliminary 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.

See note at end of Table 2 relating to survey error and revisions.

Table 7. Ratios of Manufacturers' Inventories to Shipments and Unfilled Orders to Shipments, by Industry Group ¹

[Based on Seasonally Adjusted data from the Manufacturers' Shipments, Inventories, and Orders Survey.]

	Inve	ntory/Ship	ments ra	tio	Unfilled Orders/Shipments ratio ²					
Industry	Aug 2016 ^p	Jul 2016 ^r	Jun 2016	May 2016	Aug 2016 ^p	Jul 2016 ^r	Jun 2016	May 2016		
All manufacturing industries ³	1.36	1.36	1.35	1.36	(X)	(X)	(X)	(X)		
Durable goods industries ³	1.65 1.38 1.33 1.80 1.63 2.20 1.56 1.69 1.54 1.14	1.65 1.37 1.32 1.77 1.63 2.20 1.56 1.72 1.53 1.14	1.64 1.38 1.31 1.75 1.64 2.19 1.60 1.71 1.52 1.14	1.65 1.36 1.32 1.77 1.62 2.17 1.61 1.73 1.55 1.14	6.81 (X) (X) 1.83 2.52 3.38 5.82 2.03 14.43 1.51 (X)	6.79 (X) (X) 1.81 2.53 3.41 5.83 2.02 14.21 1.50 (X)	6.81 (X) (X) 1.82 2.55 3.39 5.91 2.00 14.17 1.53 (X)	6.89 (X) (X) 1.86 2.53 3.39 5.92 2.00 14.48 1.53 (X)		
Nondurable goods industries. Food products. Beverage and tobacco products. Textiles. Textiles. Textile products. Apparel. Leather and allied products. Paper products. Printing. Petroleum and coal products. Chemical products. Plastics and rubber products.	1.05 0.83 1.64 1.25 1.52 2.36 2.35 1.07 0.82 0.72 1.24	1.05 0.83 1.65 1.27 1.55 2.38 2.40 1.08 0.83 0.71 1.24 1.32	1.05 0.83 1.66 1.26 1.55 2.38 2.35 1.06 0.82 0.69 1.23 1.32	1.05 0.83 1.73 1.26 1.55 2.36 2.34 1.06 0.83 0.71 1.23 1.33	888888888888888888888888888888888888888	(X) (X) (X) (X) (X) (X) (X) (X) (X) (X)	888888888888888888888888888888888888888	(X) (X) (X) (X) (X) (X) (X) (X) (X) (X)		

X Not Applicable Preliminary

Table 8. Revisions to Previously Published Monthly Percent Changes ¹

[Based on Seasonally Adjusted data from the Manufacturers' Shipments, Inventories, and Orders Survey.]

	Ship	ments	New C	Orders	Unfilled	Orders	Inven	tories
Industry	Aug ² 2016	Aug ³ 2015- Jul 2016	Aug ² 2016	Aug ³ 2015- Jul 2016	Aug ² 2016	Aug ³ 2015- Jul 2016	Aug ² 2016	Aug ³ 2015- Jul 2016
All manufacturing industries	(X)	0.2	(X)	0.3	(X)	0.1	(X)	0.1
Durable goods industries Wood products Nonmetallic mineral products Primary metals Fabricated metal products Machinery Computers and electronic products Electrical equipment, appliances, and components Transportation equipment Furniture and related products Miscellaneous products Nondurable goods industries. Food products Eeverage and tobacco products Textiles Textile products	0.2 (X) 0.2 0.1 0.0 0.2 0.2 0.2 (X) (X) (X) (X) (X) (X)	0.2 0.6 0.1 0.5 0.2 0.6 0.4 0.3 0.3 0.5 0.2 0.3 0.7 0.5	0.1 (X) (X) 0.2 0.2 0.1 1-0.4 0.2 0.1 (X) (X) (X) (X) (X) (X)	0.5 (NA) (NA) 0.8 0.4 0.7 0.6 0.9 0.9 0.8 (NA) (NA) (NA) (NA) (NA) (NA)	0.00 (X) (X) (X) 0.00 0.01 0.11 0.02 (X)	0.1 (NA) (NA) 0.3 0.2 0.2 0.1 0.4 0.1 0.4 (NA) (NA) (NA)	0.11 (X) (X) 0.1 0.0 0.0 0.0 0.0 (X) (X) (X) (X) (X) (X) (X) (X) (X) (X)	0.3
Apparel	8888888	0.9 0.8 1.8 0.3 0.3 1.0 0.2	8888888	(NA) (NA) (NA) (NA) (NA) (NA) (NA)	88 88 88 88 88 88 88 88	(NA) (NA) (NA) (NA) (NA) (NA) (NA)	88 88 88 88 88 88 88 88	0.3 0.5 0.2 0.4 1.0 0.2

X Not Applicable

Revised data due to late receipts and concurrent seasonal adjustment.

² Excludes the following industries with no unfilled orders: Wood products; nonmetallic mineral products; medical equipment and supplies; office supplies; other miscellaneous manufacturing; cutlery and handtools; farm and garden machinery; computer storage and peripheral devices; audio and video equipment; manufacturing and reproducing magnetic and optical media; batteries; automobiles; light trucks and utility vehicles; heavy duty trucks, and miscellaneous furniture.

 $^{^{\}rm 3}$ Unfilled orders to shipments ratio excludes semiconductor manufacturing.

NA Not Available

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 The current month revisions are the difference between the advance percent change and the percent change as shown in this nublication

³ The twelve month revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the absolute values of the differences for the months specified. The advance to final percent change revisions for the durable goods industries are shown in the advance report for the month.

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.