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## Full Report on Manufacturers' Shipments, Inventories and Orders June 2016

### Summary

New orders for manufactured goods in June, down two consecutive months, decreased \$6.9 billion or 1.5 percent to \$447.4 billion, the U.S. Census Bureau reported today. This followed a 1.2 percent May decrease.

Shipments, up four consecutive months, increased \$3.1 billion or 0.7 percent to \$460.0 billion. This followed a 0.1 percent May increase.

Unfilled orders, down following three consecutive monthly increases, decreased \$9.6 billion or 0.8 percent to \$1,128.0 billion. This followed a virtually unchanged May increase. The unfilled orders-to-shipments ratio was 6.81, down from 6.89 in May.

Inventories, down thirteen of the last fourteen months, decreased \$0.5 billion or 0.1 percent to \$619.1 billion. This followed a 0.1 percent May decrease. The inventories-to-shipments ratio was 1.35, down from 1.36 in May.

### New Orders

New orders for manufactured durable goods in June, down two consecutive months, decreased \$9.0 billion or 3.9 percent to \$219.8 billion, up from the previously published 4.0 percent decrease. This followed a 2.9 percent May decrease.

Transportation equipment, also down two consecutive months, led the decrease, \$8.5 billion or 10.5 percent to \$72.1 billion.

New orders for manufactured nondurable goods increased \$2.2 billion or 1.0 percent to \$227.6 billion.

### Shipments

Shipments of manufactured durable goods in June, up two of the last three months, increased \$1.0 billion or 0.4 percent to \$232.4 billion, virtually unchanged from the previously published increase. This followed a 0.3 percent May decrease.

Transportation equipment, also up two of the last three months, drove the increase, \$1.1 billion or 1.4 percent to \$81.1 billion.

Shipments of manufactured nondurable goods, up four consecutive months, increased \$2.2 billion or 1.0 percent to \$227.6 billion. This followed a 0.6 percent May increase. Petroleum and coal products, also up four consecutive months, led the increase, \$1.4 billion or 3.9 percent to \$36.6 billion.

### Unfilled Orders

Unfilled orders for manufactured durable goods in June, down following three consecutive monthly increases, decreased \$9.6 billion or 0.8 percent to \$1,128.0 billion, up from the previously published 0.9 percent decrease. This followed a virtually unchanged May increase.

Transportation equipment, also down following three consecutive monthly increases, led the decrease, \$9.0 billion or 1.2 percent to \$774.8 billion.

### Inventories

Inventories of manufactured durable goods in June, down eleven of the last twelve months, decreased \$1.0 billion or 0.3 percent to \$381.3 billion, down from the previously published 0.2 percent decrease. This followed a 0.4 percent May decrease.

Transportation equipment, down five consecutive months, drove the decrease, \$1.3 billion or 1.0 percent to \$122.9 billion.

Inventories of manufactured nondurable goods, up four consecutive months, increased \$0.5 billion or 0.2 percent to \$237.9 billion. This followed a 0.3 percent May increase. Chemical products, up two consecutive months, led the increase, \$0.3 billion or 0.4 percent to \$81.4 billion.

By stage of fabrication, June materials and supplies decreased 0.1 percent in durable goods and decreased 0.5 percent in nondurable goods. Work in process decreased 1.6 percent in durable goods and increased 1.2 percent in nondurable goods. Finished goods increased 1.5 percent in durable goods and increased 0.3 percent in nondurable goods.

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Figures in text are adjusted for seasonality, but not for inflation. Figures on new and unfilled orders exclude data for semiconductor manufacturing. For data, call (301) 763-4673 or go to [www.census.gov/m3](http://www.census.gov/m3). The Advance Report on durable goods for July is scheduled for release on August 25, 2016 at 8:30 a.m. EDT and the Full Report on September 2, 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](http://www.census.gov/econ/webinar).

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



Table 2. Value of Manufacturers' New Orders for Industry Groups<sup>1</sup>

[Estimates are shown in millions of dollars and are based on data from the Manufacturers' Shipments, Inventories, and Orders Survey.]

Industry	Seasonally Adjusted						Not Seasonally Adjusted						
	Monthly			Percent Change			Monthly				Year to date		
	June 2016 <sup>p</sup>	May 2016 <sup>f</sup>	Apr. 2016	May - June	Apr. - May	Mar. - Apr.	June 2016 <sup>p</sup>	May 2016 <sup>f</sup>	Apr. 2016	June 2015	2016 <sup>p</sup>	2015	% Change 2016/2015
All manufacturing industries <sup>2</sup> .....	447,425	454,295	459,849	-1.5	-1.2	1.8	477,621	459,330	452,578	506,055	2,712,314	2,784,654	-2.6
Excluding transportation <sup>2</sup> .....	375,319	373,705	373,104	0.4	0.2	0.3	395,604	382,283	373,191	412,987	2,245,207	2,328,379	-3.6
Excluding defense <sup>2</sup> .....	436,724	442,939	445,214	-1.4	-0.5	1.9	462,950	450,115	439,073	490,240	2,638,186	2,720,417	-3.0
With unfilled orders <sup>2</sup> .....	156,019	165,438	170,375	-5.7	-2.9	4.1	172,276	162,426	162,299	185,164	977,909	979,435	-0.2
Durable goods industries <sup>2</sup> .....	219,802	228,827	235,729	-3.9	-2.9	3.2	241,664	226,780	228,248	258,679	1,370,656	1,370,336	0.0
Primary metals.....	17,549	17,783	18,016	-1.3	-1.3	-0.8	18,327	17,871	18,404	20,355	110,374	122,223	-9.7
Iron and steel mills.....	7,988	8,319	8,309	-4.0	0.1	1.7	8,291	8,357	8,526	9,585	51,064	58,165	-12.2
Aluminum and nonferrous metals.....	8,118	7,908	8,107	2.7	-2.5	-3.2	8,481	7,934	8,286	8,956	49,669	54,188	-8.3
Ferrous metal foundries.....	1,443	1,556	1,600	-7.3	-2.8	-1.2	1,555	1,580	1,592	1,814	9,641	9,870	-2.3
Fabricated metal products.....	29,972	29,889	30,091	0.3	-0.7	3.2	31,437	30,975	30,512	31,405	182,941	179,192	2.1
Machinery.....	29,362	29,313	29,255	0.2	0.2	-2.5	31,329	29,493	30,043	34,012	183,374	193,695	-5.3
Construction machinery.....	2,657	2,634	2,645	0.9	-0.4	-3.4	2,631	2,471	2,746	3,380	16,432	20,714	-20.7
Mining, oil field, and gas field machinery.....	508	165	69	207.9	139.1	-92.9	662	190	-139	1,608	4,030	10,490	-61.6
Industrial machinery.....	2,233	2,355	2,306	-5.2	2.1	-4.4	2,558	2,082	2,305	2,832	14,182	13,432	5.6
Photographic equipment.....	410	428	378	-4.2	13.2	-9.6	369	419	366	344	2,412	2,620	-7.9
Ventilation, heating, air-conditioning, and refrigeration equipment.....	3,315	3,311	3,415	0.1	-3.0	-0.9	4,091	3,561	3,409	4,516	20,814	21,864	-4.8
Metalworking machinery.....	3,092	3,034	3,380	1.9	-10.2	5.3	3,209	2,935	3,297	2,590	18,456	15,647	18.0
Turbines, generators, and other power transmission equipment.....	4,065	4,088	4,125	-0.6	-0.9	5.2	4,282	4,105	4,285	4,586	24,534	25,771	-4.8
Material handling equipment.....	2,975	3,147	2,941	-5.5	7.0	11.4	3,066	3,198	2,837	3,026	18,228	16,143	12.9
Computers and electronic products <sup>2</sup> .....	23,708	24,166	24,379	-1.9	-0.9	2.9	27,629	23,049	22,295	27,274	142,809	137,674	3.7
Computers.....	548	603	619	-9.1	-2.6	4.4	731	573	557	1,216	3,485	4,861	-28.3
Nondefense communications equipment.....	3,394	3,454	3,264	-1.7	5.8	4.1	4,001	3,074	3,091	3,906	20,071	20,456	-1.9
Defense communications equipment.....	313	290	282	7.9	2.8	-7.5	365	259	284	274	1,814	1,952	-7.1
Electronic components.....	4,601	4,723	4,699	-2.6	0.5	0.0	5,170	4,815	4,523	4,980	27,808	24,747	12.4
Nondefense search and navigation equipment.....	1,364	1,379	1,323	-1.1	4.2	-5.8	1,599	1,359	1,384	1,664	8,663	8,862	-2.2
Defense search and navigation equipment.....	2,532	2,695	3,037	-6.0	-11.3	11.0	2,895	2,459	2,859	2,640	16,133	14,243	13.3
Electromedical, measuring, and control instruments.....	9,157	9,124	9,202	0.4	-0.8	2.4	10,452	8,850	8,091	9,784	53,948	51,290	5.2
Electrical equipment, appliances, and components.....	9,416	9,388	9,434	0.3	-0.5	-0.3	10,307	9,500	9,200	11,079	57,623	61,733	-6.7
Electric lighting equipment.....	1,064	1,078	1,082	-1.3	-0.4	3.0	1,066	1,029	1,051	1,037	6,272	5,862	7.0
Household appliances.....	1,427	1,316	1,340	8.4	-1.8	-2.0	1,485	1,424	1,388	1,592	8,254	9,442	-12.6
Electrical equipment.....	2,860	2,875	2,924	-0.5	-1.7	-2.1	3,305	2,905	2,813	3,700	17,958	20,140	-10.8
Transportation equipment.....	72,106	80,590	86,745	-10.5	-7.1	8.5	82,017	77,047	79,387	93,068	467,107	456,275	2.4
Motor vehicle bodies, parts, and trailers.....	28,629	27,748	27,660	3.2	0.3	2.1	30,068	28,745	27,833	26,700	168,984	153,824	9.9
Nondefense aircraft and parts.....	6,736	16,341	17,309	-58.8	-5.6	69.3	9,202	13,358	10,650	20,434	59,832	67,881	-11.9
Defense aircraft and parts.....	3,677	3,940	5,628	-6.7	-30.0	-9.1	5,687	2,504	5,187	6,667	27,287	23,407	16.6
Ships and boats.....	2,743	2,596	3,196	5.7	-18.8	-11.6	3,444	2,697	2,986	4,251	16,808	15,672	7.2
Furniture and related products.....	6,343	6,326	6,310	0.3	0.3	-2.8	6,499	6,475	6,607	6,311	39,094	36,596	6.8
Nondurable goods industries.....	227,623	225,468	224,120	1.0	0.6	0.4	235,957	232,550	224,330	247,376	1,341,658	1,414,318	-5.1

<sup>p</sup> Preliminary<sup>f</sup> Revised data due to late receipts and concurrent seasonal adjustment.

<sup>1</sup> Estimates of shipments and new orders are for the duration of the period, while estimates of unfilled orders and total inventories are for the end of the period. Not seasonally adjusted estimates of shipments and new orders include adjusted data for non-calendar reporters. Seasonally adjusted estimates include concurrent adjustments for holiday and trading-day differences, where appropriate, as well as seasonal variation, based on the results of the latest annual review of the model parameters. Estimates are not adjusted for price changes.

<sup>2</sup> Data on new orders are not available for the semiconductor industry. Estimates and percent changes for new orders exclude semiconductor industry data.

Note: Estimates of manufacturers' shipments, inventories and orders are subject to survey error and revision. One major component of survey error is non-sampling 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/>>.

**Table 3. Value of Manufacturers' Unfilled Orders for Industry Groups<sup>1</sup>**

[Estimates are shown in millions of dollars and are based on data from the Manufacturers' Shipments, Inventories, and Orders Survey.]

Industry	Seasonally Adjusted						Not Seasonally Adjusted				% Change June 2016/ 2015
	Monthly			Percent Change			Monthly				
	June 2016 <sup>2</sup>	May 2016 <sup>2</sup>	Apr. 2016	May - June	Apr. - May	Mar. - Apr.	June 2016 <sup>2</sup>	May 2016 <sup>2</sup>	Apr. 2016	June 2015	
All manufacturing industries <sup>2</sup> .....	1,127,973	1,137,551	1,137,162	-0.8	0.0	0.6	1,128,484	1,138,297	1,142,474	1,150,624	-1.9
Excluding transportation <sup>2</sup> .....	353,197	353,735	353,887	-0.2	0.0	0.0	356,686	358,821	359,610	357,348	-0.2
Excluding defense <sup>2</sup> .....	954,634	962,430	961,327	-0.8	0.1	0.3	953,233	963,719	965,432	972,477	-2.0
Durable goods industries <sup>2</sup> .....	1,127,973	1,137,551	1,137,162	-0.8	0.0	0.6	1,128,484	1,138,297	1,142,474	1,150,624	-1.9
Primary metals.....	32,533	32,739	32,570	-0.6	0.5	1.2	32,915	33,336	33,467	33,506	-1.8
Iron and steel mills.....	18,279	18,363	18,069	-0.5	1.6	1.6	18,809	18,969	18,812	18,168	3.5
Aluminum and nonferrous metals.....	10,426	10,483	10,668	-0.5	-1.7	-0.1	10,284	10,395	10,750	11,713	-12.2
Ferrous metal foundries.....	3,828	3,893	3,833	-1.7	1.6	2.8	3,822	3,972	3,905	3,625	5.4
Fabricated metal products.....	73,962	73,799	73,883	0.2	-0.1	0.1	75,175	75,578	75,303	75,251	-0.1
Machinery.....	92,713	93,427	94,256	-0.8	-0.9	-1.3	92,929	94,314	95,648	100,721	-7.7
Construction machinery.....	4,320	4,536	4,807	-4.8	-5.6	-6.4	4,214	4,601	5,069	6,670	-36.8
Mining, oil field, and gas field machinery.....	5,967	6,320	7,052	-5.6	-10.4	-11.2	6,036	6,277	6,950	10,742	-43.8
Industrial machinery.....	7,767	7,834	7,784	-0.9	0.6	-2.8	7,830	7,894	8,036	8,778	-10.8
Photographic equipment.....	1,194	1,210	1,227	-1.3	-1.4	-5.0	1,178	1,276	1,267	1,311	-10.1
Ventilation, heating, air-conditioning, and refrigeration equipment.....	6,300	6,319	6,337	-0.3	-0.3	0.3	6,383	6,520	6,563	6,360	0.4
Metalworking machinery.....	7,201	7,164	7,192	0.5	-0.4	4.4	7,227	7,295	7,382	7,129	1.4
Turbines, generators, and other power transmission equipment.....	25,619	25,624	25,726	0.0	-0.4	0.2	25,637	25,552	25,783	25,851	-0.8
Material handling equipment.....	11,932	11,921	11,717	0.1	1.7	-0.5	12,225	12,222	11,981	11,158	9.6
Computers and electronic products <sup>2</sup> .....	128,313	128,124	127,516	0.1	0.5	0.7	129,056	129,013	128,828	122,045	5.7
Computers.....	2,403	2,411	2,405	-0.3	0.2	-0.3	2,403	2,411	2,405	2,425	-0.9
Nondefense communications equipment.....	32,251	32,142	31,779	0.3	1.1	0.9	32,401	32,460	32,353	28,961	11.9
Defense communications equipment.....	2,330	2,299	2,294	1.3	0.2	0.5	2,377	2,292	2,315	2,354	1.0
Electronic components.....	12,041	12,111	12,134	-0.6	-0.2	-0.1	11,997	12,213	12,232	11,816	1.5
Nondefense search and navigation equipment.....	17,579	17,539	17,485	0.2	0.3	-0.2	17,675	17,550	17,537	16,344	8.1
Defense search and navigation equipment.....	28,523	28,562	28,423	-0.1	0.5	1.8	28,748	28,743	28,758	27,525	4.4
Electromedical, measuring, and control instruments.....	33,186	33,060	32,996	0.4	0.2	0.6	33,455	33,344	33,228	32,620	2.6
Electrical equipment, appliances, and components.....	17,280	17,286	17,332	0.0	-0.3	-0.1	17,636	17,587	17,591	17,190	2.6
Electric lighting equipment.....	1,336	1,349	1,344	-1.0	0.4	0.7	1,357	1,364	1,352	1,300	4.4
Household appliances.....	1,087	1,045	1,111	4.0	-5.9	-0.9	1,108	1,125	1,140	1,261	-12.1
Electrical equipment.....	7,938	7,986	8,029	-0.6	-0.5	-0.3	7,997	8,055	8,102	7,930	0.8
Transportation equipment.....	774,776	783,816	783,275	-1.2	0.1	0.8	771,798	779,476	782,864	793,276	-2.7
Motor vehicle bodies, parts, and trailers.....	22,415	22,415	22,347	0.0	0.3	-0.6	21,984	22,499	22,378	23,357	-5.9
Nondefense aircraft and parts.....	593,823	600,967	599,169	-1.2	0.3	0.6	589,739	597,399	598,072	600,753	-1.8
Defense aircraft and parts.....	70,415	70,870	71,228	-0.6	-0.5	3.0	70,953	70,166	71,777	66,022	7.5
Ships and boats.....	16,681	16,908	17,286	-1.3	-2.2	1.0	17,250	16,960	17,339	27,634	-37.6
Furniture and related products.....	8,153	8,118	8,094	0.4	0.3	0.1	8,732	8,751	8,537	8,391	4.1

<sup>2</sup> Preliminary      <sup>1</sup> Revised data due to late receipts and concurrent seasonal adjustment.<sup>1</sup> Estimates of shipments and new orders are for the duration of the period, while estimates of unfilled orders and total inventories are for the end of the period. Not seasonally adjusted estimates of shipments and new orders include adjusted data for non-calendar reporters. Seasonally adjusted estimates include concurrent adjustments for holiday and trading-day differences, where appropriate, as well as seasonal variation, based on the results of the latest annual review of the model parameters. Estimates are not adjusted for price changes.<sup>2</sup> 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 7. Ratios of Manufacturers' Inventories to Shipments and Unfilled Orders to Shipments, by Industry Group <sup>1</sup>**

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

Industry	Inventory/Shipments ratio				Unfilled Orders/Shipments ratio <sup>2</sup>			
	Jun 2016 <sup>a</sup>	May 2016 <sup>b</sup>	Apr 2016	Mar 2016	Jun 2016 <sup>a</sup>	May 2016 <sup>b</sup>	Apr 2016	Mar 2016
All manufacturing industries <sup>3</sup> .....	1.35	1.36	1.36	1.37	(X)	(X)	(X)	(X)
Durable goods industries <sup>3</sup> .....	1.64	1.65	1.65	1.67	6.81	6.89	6.94	6.93
Wood products.....	1.38	1.36	1.35	1.30	(X)	(X)	(X)	(X)
Nonmetallic mineral products.....	1.30	1.32	1.31	1.30	(X)	(X)	(X)	(X)
Primary metals.....	1.76	1.77	1.77	1.80	1.83	1.86	1.85	1.82
Fabricated metal products.....	1.63	1.62	1.62	1.65	2.55	2.53	2.53	2.57
Machinery.....	2.19	2.17	2.16	2.18	3.38	3.39	3.37	3.40
Computers and electronic products <sup>3</sup> .....	1.61	1.61	1.62	1.63	5.91	5.92	5.93	5.95
Electrical equipment, appliances, and components.....	1.72	1.73	1.73	1.74	2.00	2.00	2.00	2.04
Transportation equipment.....	1.51	1.55	1.55	1.57	14.13	14.48	14.88	14.77
Furniture and related products.....	1.14	1.14	1.14	1.14	1.54	1.53	1.53	1.51
Miscellaneous products.....	1.70	1.69	1.70	1.71	(X)	(X)	(X)	(X)
Nondurable goods industries.....	1.05	1.05	1.06	1.06	(X)	(X)	(X)	(X)
Food products.....	0.83	0.83	0.84	0.83	(X)	(X)	(X)	(X)
Beverage and tobacco products.....	1.68	1.73	1.68	1.67	(X)	(X)	(X)	(X)
Textiles.....	1.26	1.26	1.25	1.24	(X)	(X)	(X)	(X)
Textile products.....	1.54	1.55	1.56	1.58	(X)	(X)	(X)	(X)
Apparel.....	2.39	2.36	2.38	2.46	(X)	(X)	(X)	(X)
Leather and allied products.....	2.35	2.34	2.43	2.40	(X)	(X)	(X)	(X)
Paper products.....	1.06	1.06	1.07	1.08	(X)	(X)	(X)	(X)
Printing.....	0.83	0.83	0.85	0.84	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.68	0.71	0.73	0.74	(X)	(X)	(X)	(X)
Chemical products.....	1.23	1.23	1.21	1.21	(X)	(X)	(X)	(X)
Plastics and rubber products.....	1.33	1.33	1.32	1.32	(X)	(X)	(X)	(X)

X Not Applicable    <sup>a</sup> Preliminary    <sup>b</sup> Revised data due to late receipts and concurrent seasonal adjustment.

<sup>2</sup> 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.

<sup>3</sup> Unfilled orders to shipments ratio excludes semiconductor manufacturing.

**Table 8. Revisions to Previously Published Monthly Percent Changes <sup>1</sup>**

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

Industry	Shipments		New Orders		Unfilled Orders		Inventories	
	Jun <sup>2</sup> 2016	Jun <sup>3</sup> 2015- May 2016	Jun <sup>2</sup> 2016	Jun <sup>3</sup> 2015- May 2016	Jun <sup>2</sup> 2016	Jun <sup>3</sup> 2015- May 2016	Jun <sup>2</sup> 2016	Jun <sup>3</sup> 2015- May 2016
All manufacturing industries.....	(X)	0.2	(X)	0.3	(X)	0.1	(X)	0.1
Durable goods industries.....	0.0	0.2	0.1	0.5	0.1	0.1	-0.1	0.1
Wood products.....	(X)	0.6	(X)	(NA)	(X)	(NA)	(X)	0.3
Nonmetallic mineral products.....	(X)	0.2	(X)	(NA)	(X)	(NA)	(X)	0.2
Primary metals.....	0.0	0.5	0.0	0.8	0.0	0.3	0.0	0.5
Fabricated metal products.....	0.2	0.2	0.6	0.3	0.1	0.2	0.0	0.2
Machinery.....	0.2	0.7	0.3	0.8	0.0	0.2	-0.1	0.2
Computers and electronic products.....	0.1	0.3	0.3	0.6	0.0	0.1	-0.1	0.3
Electrical equipment, appliances, and components.....	0.1	0.3	-0.5	0.9	-0.4	0.4	0.0	0.2
Transportation equipment.....	0.0	0.3	0.0	0.9	-0.1	0.1	-0.1	0.2
Furniture and related products.....	(X)	0.4	(X)	0.5	(X)	0.4	(X)	0.3
Miscellaneous products.....	(X)	0.5	(X)	0.5	(X)	0.3	(X)	0.2
Nondurable goods industries.....	(X)	0.2	(X)	(NA)	(X)	(NA)	(X)	0.2
Food products.....	(X)	0.2	(X)	(NA)	(X)	(NA)	(X)	0.3
Beverage and tobacco products.....	(X)	0.6	(X)	(NA)	(X)	(NA)	(X)	0.2
Textiles.....	(X)	0.5	(X)	(NA)	(X)	(NA)	(X)	0.3
Textile products.....	(X)	1.0	(X)	(NA)	(X)	(NA)	(X)	0.3
Apparel.....	(X)	0.9	(X)	(NA)	(X)	(NA)	(X)	0.5
Leather and allied products.....	(X)	1.7	(X)	(NA)	(X)	(NA)	(X)	0.5
Paper products.....	(X)	0.3	(X)	(NA)	(X)	(NA)	(X)	0.2
Printing.....	(X)	0.4	(X)	(NA)	(X)	(NA)	(X)	0.3
Petroleum and coal products.....	(X)	1.0	(X)	(NA)	(X)	(NA)	(X)	1.2
Chemical products.....	(X)	0.2	(X)	(NA)	(X)	(NA)	(X)	0.2
Plastics and rubber products.....	(X)	0.4	(X)	(NA)	(X)	(NA)	(X)	0.2

X Not Applicable    NA Not Available

<sup>1</sup> Estimates of shipments and new orders are for the duration of the period, while estimates of unfilled orders and total inventories are for the end of the period. Not seasonally adjusted estimates of shipments and new orders include adjusted data for non-calendar reporters. Seasonally adjusted estimates include concurrent adjustments for holiday and trading-day differences, where appropriate, as well as seasonal variation, based on the results of the latest annual review of the model parameters. Estimates are not adjusted for price changes.

<sup>2</sup> The current month revisions are the difference between the advance percent change and the percent change as shown in this publication.

<sup>3</sup> 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>.