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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 1. Value of Manufacturers' Shipments 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		% Change
	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	
All manufacturing industries.....	460,027	456,889	456,328	0.7	0.1	0.4	490,057	465,958	453,383	506,405	2,741,204	2,820,228	-2.8
Excluding transportation.....	378,881	376,840	375,933	0.5	0.2	0.3	400,362	385,523	374,729	417,428	2,251,037	2,341,136	-3.8
Excluding defense.....	447,544	444,819	444,944	0.6	0.0	0.7	476,059	454,279	443,036	492,366	2,669,110	2,751,010	-3.0
With unfilled orders.....	165,597	165,049	163,915	0.3	0.7	0.4	182,089	166,603	159,852	182,832	989,125	996,380	-0.7
Durable goods industries.....	232,404	231,421	232,208	0.4	-0.3	0.4	254,100	233,408	229,053	259,029	1,399,546	1,405,910	-0.5
Wood products.....	8,115	8,169	8,220	-0.7	-0.6	-2.9	9,091	8,915	8,715	10,631	49,499	48,459	2.1
Nonmetallic mineral products.....	9,944	9,850	9,894	1.0	-0.4	-0.3	10,900	10,242	9,928	10,338	58,073	54,966	5.7
Primary metals.....	17,755	17,614	17,631	0.8	-0.1	-0.2	18,748	18,002	17,860	20,336	108,072	121,832	-11.3
Iron and steel mills.....	8,072	8,025	8,020	0.6	0.1	1.8	8,451	8,200	8,081	9,444	48,615	57,226	-15.0
Aluminum and nonferrous metals.....	8,175	8,093	8,117	1.0	-0.3	-2.1	8,592	8,289	8,272	9,065	50,201	54,640	-8.1
Ferrous metal foundries.....	1,508	1,496	1,494	0.8	0.1	-0.8	1,705	1,513	1,507	1,827	9,256	9,966	-7.1
Fabricated metal products.....	29,809	29,973	29,997	-0.5	-0.1	1.6	31,840	30,700	30,055	31,690	179,213	178,055	0.7
Machinery.....	30,076	30,142	30,536	-0.2	-1.3	-0.3	32,714	30,827	30,957	35,662	185,401	196,691	-5.7
Farm machinery.....	1,846	1,808	1,765	2.1	2.4	1.3	1,806	1,935	2,293	2,215	12,043	13,742	-12.4
Construction machinery.....	2,873	2,905	2,975	-1.1	-2.4	0.0	3,018	2,939	3,081	3,893	17,613	22,914	-23.1
Mining, oil field, and gas field machinery.....	861	897	954	-4.0	-6.0	-20.8	903	863	874	1,821	6,164	11,376	-45.8
Industrial machinery.....	2,300	2,305	2,534	-0.2	-9.0	1.2	2,622	2,224	2,325	2,953	14,269	13,700	4.2
Photographic equipment.....	426	445	443	-4.3	0.5	-1.6	467	410	381	492	2,509	2,455	2.2
Ventilation, heating, air-conditioning, and refrigeration equipment.....	3,334	3,329	3,399	0.2	-2.1	-3.9	4,228	3,604	3,333	4,480	20,759	21,112	-1.7
Metalworking machinery.....	3,055	3,062	3,075	-0.2	-0.4	3.3	3,277	3,022	2,796	2,809	17,848	15,680	13.8
Turbines, generators, and other power transmission equipment.....	4,070	4,190	4,069	-2.9	3.0	2.7	4,197	4,336	4,210	4,776	24,589	27,548	-10.7
Material handling equipment.....	2,964	2,943	2,999	0.7	-1.9	4.1	3,063	2,957	2,892	2,718	17,636	14,861	18.7
Computers and electronic products <sup>2</sup> .....	26,543	26,541	26,391	0.0	0.6	0.4	30,209	25,315	24,321	29,849	155,618	150,627	3.3
Computers.....	556	597	626	-6.9	-4.6	5.0	739	567	564	1,157	3,529	4,716	-25.2
Computer storage devices.....	559	590	623	-5.3	-5.3	19.3	911	434	405	935	3,290	3,273	0.5
Other peripheral equipment.....	618	667	665	-7.3	0.3	0.8	893	622	534	1,272	3,979	5,034	-21.0
Nondefense communications equipment.....	3,285	3,091	2,996	6.3	3.2	-2.6	4,060	2,967	2,631	3,898	18,195	18,209	-0.1
Defense communications equipment.....	282	285	271	-1.1	5.2	-2.5	280	282	270	249	1,674	1,887	-11.3
Audio and video equipment.....	358	361	364	-0.8	-0.8	8.0	345	343	298	311	1,906	1,178	61.8
Electronic components.....	4,671	4,746	4,708	-1.6	0.8	2.1	5,386	4,834	4,468	5,031	27,765	24,328	14.1
Nondefense search and navigation equipment.....	1,324	1,325	1,365	-0.1	-2.9	-0.4	1,474	1,346	1,154	1,430	8,113	7,330	10.7
Defense search and navigation equipment.....	2,571	2,556	2,528	0.6	1.1	1.0	2,890	2,474	2,239	2,765	14,740	14,539	1.4
Electromedical, measuring, and control instruments.....	9,031	9,060	9,005	-0.3	0.6	1.7	10,341	8,734	8,237	9,827	53,041	49,726	6.7
Electrical equipment, appliances, and components.....	9,422	9,434	9,458	-0.1	-0.3	1.5	10,258	9,504	9,203	11,016	56,290	61,295	-8.2
Electric lighting equipment.....	1,077	1,073	1,072	0.4	0.1	1.0	1,073	1,017	1,030	1,018	6,183	5,835	6.0
Household appliances.....	1,385	1,382	1,350	0.2	2.4	-1.8	1,502	1,439	1,356	1,662	8,297	9,401	-11.7
Electrical equipment.....	2,908	2,918	2,947	-0.3	-1.0	0.2	3,363	2,952	2,788	3,630	17,824	19,627	-9.2
Batteries.....	781	780	802	0.1	-2.7	0.1	798	728	754	886	4,513	4,830	-6.6
Transportation equipment.....	81,146	80,049	80,395	1.4	-0.4	0.6	89,695	80,435	78,654	88,977	490,167	479,092	2.3
Automobiles.....	9,458	9,269	9,899	2.0	-6.4	-0.9	10,302	9,308	9,641	11,836	60,519	65,096	-7.0
Light trucks and utility vehicles.....	14,595	14,364	15,481	1.6	-7.2	3.5	15,676	14,268	15,625	15,911	92,114	86,004	7.1
Heavy duty trucks.....	2,266	2,278	2,368	-0.5	-3.8	0.4	2,500	2,323	2,402	3,045	14,144	16,181	-12.6
Motor vehicle bodies, parts, and trailers.....	28,629	27,680	27,802	3.4	-0.4	2.7	30,583	28,624	28,484	27,269	170,559	154,462	10.4
Nondefense aircraft and parts.....	13,880	14,543	13,615	-4.6	6.8	4.0	16,862	14,031	11,873	16,647	80,729	83,027	-2.8
Defense aircraft and parts.....	4,132	4,298	3,561	-3.9	20.7	-23.2	4,900	4,115	3,088	6,193	24,952	27,391	-8.9
Ships and boats.....	2,970	2,974	3,031	-0.1	-1.9	-1.6	3,154	3,076	3,020	3,037	18,148	16,428	10.5
Furniture and related products.....	6,308	6,302	6,304	0.1	0.0	-0.5	6,518	6,261	6,206	6,326	37,456	35,375	5.9
Miscellaneous durable goods.....	13,286	13,347	13,382	-0.5	-0.3	1.7	14,127	13,207	13,154	14,204	79,757	79,518	0.3
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
Food products.....	65,033	64,856	64,182	0.3	1.1	-0.1	64,378	63,863	62,461	63,784	382,166	380,937	0.3
Grain and oilseed milling.....	8,234	8,090	8,023	1.8	0.8	-0.1	7,823	7,528	7,531	7,681	46,929	46,296	1.4
Dairy products.....	8,977	9,021	9,074	-0.5	-0.6	-1.6	8,948	8,984	8,815	9,180	53,651	54,345	-1.3
Meat, poultry, and seafood products.....	18,291	18,023	17,793	1.5	1.3	-0.8	18,817	18,162	17,645	18,942	107,007	112,557	-4.9
Beverage and tobacco products.....	12,238	11,998	12,240	2.0	-2.0	0.0	13,064	12,669	12,223	12,996	72,208	72,569	-0.5
Beverages.....	9,167	9,142	9,122	0.3	0.2	-1.0	9,993	9,813	9,105	9,731	54,705	53,499	2.3
Tobacco.....	3,071	2,856	3,118	7.5	-8.4	3.0	3,071	2,856	3,118	3,265	17,503	19,070	-8.2
Textile mills.....	2,525	2,520	2,513	0.2	0.3	-0.3	2,704	2,582	2,598	2,737	15,356	15,654	-1.9
Textile products.....	1,995	1,980	1,973	0.8	0.4	0.7	2,137	2,042	2,061	2,163	12,058	12,429	-3.0
Apparel.....	1,072	1,090	1,080	-1.7	0.9	3.9	1,007	1,005	956	928	5,841	5,463	6.9
Leather and allied products.....	337	341	336	-1.2	1.5	0.6	358	343	342	415	2,061	2,471	-16.6
Paper products.....	15,227	15,218	15,253	0.1	-0.2	0.0	15,649	15,442	14,969	15,680	91,121	90,748	0.4
Pulp, paper, and paperboard mills.....	6,769	6,761	6,753	0.1	0.1	-0.3	6,909	6,769	6,620	6,981	40,539	40,928	-1.0
Paperboard containers.....	4,644	4,645	4,728	0.0	-1.8	0.5	4,856	4,693	4,662	4,878	27,961	27,467	1.8
Printing.....	7,148	7,167	7,089	-0.3	1.1	-1.1	7,054	7,369	7,209	7,112	42,520	42,099	1.0
Petroleum and coal products.....	36,584	35,210	34,000	3.9	3.6	2.7	39,842	38,492	34,352	52,188	199,707	284,918	-29.9
Petroleum refineries.....	32,764	31,522	30,341	3.9	3.9	2.3	35,409	34,581	30,734	48,412	178,935	265,443	-32.6
Chemical products.....	66,333	66,014	66,337	0.5	-0.5	-0.1	69,164	68,924	67,664	68,727	402,959	391,151	3.0
Pesticides, fertilizers, and other agricultural chemicals.....	4,044	4,009	3,965	0.9	1.1	-4.4	4,194	5,261	5,551	4,063	28,790	26,870	7.1
Pharmaceuticals and medicines.....	21,762	21,584	21,792	0.8	-1.0	0.4	22,382	21,816	21,216	20,142	129,684	109,206	18.8
Paints, coatings, and adhesives.....	3,615	3,659	3,696	-1.2	-1.0	1.3	3,997	4,059	4,021	3,680	22,530	20,689	8.9
Plastics and rubber products.....	19,131	19,074	19,117	0.3	-0.2	0.2	20,600	19,819	19,495	20,646	115,661	115,879	-0.2

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

<sup>2</sup> 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 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 4. Value of Manufacturers' Inventories 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.....	619,119	619,667	620,455	-0.1	-0.1	-0.1	616,552	624,889	623,259	640,506	-3.7
Excluding transportation.....	496,245	495,491	495,520	0.2	0.0	-0.1	494,930	499,624	497,571	515,490	-4.0
Excluding defense.....	593,914	593,986	594,685	0.0	-0.1	-0.2	591,112	599,048	597,496	613,658	-3.7
With unfilled orders.....	309,486	311,162	312,288	-0.5	-0.4	-0.4	307,970	314,327	314,180	320,332	-3.9
Durable goods industries.....	381,252	382,258	383,677	-0.3	-0.4	-0.4	378,651	385,715	385,702	393,334	-3.7
Wood products.....	11,212	11,137	11,059	0.7	0.7	0.5	10,980	11,018	11,014	12,697	-13.5
Nonmetallic mineral products.....	12,976	12,965	12,912	0.1	0.4	0.0	13,075	13,271	13,199	13,111	-0.3
Primary metals.....	31,253	31,235	31,266	0.1	-0.1	-1.9	30,960	31,033	31,116	35,817	-13.6
Iron and steel mills.....	16,974	16,955	16,915	0.1	0.2	-0.7	16,728	16,689	16,653	20,604	-18.8
Aluminum and nonferrous metals.....	12,190	12,179	12,247	0.1	-0.6	-3.6	12,158	12,205	12,311	13,133	-7.4
Ferrous metal foundries.....	2,089	2,101	2,104	-0.6	-0.1	-1.8	2,074	2,139	2,152	2,080	-0.3
Fabricated metal products.....	48,577	48,568	48,590	0.0	0.0	-0.3	48,554	49,032	49,049	49,698	-2.3
Machinery.....	65,724	65,400	65,906	0.5	-0.8	-1.1	65,197	66,280	66,296	67,568	-3.5
Farm machinery.....	2,909	2,983	2,956	-2.5	0.9	-3.4	2,966	3,093	2,953	3,615	-18.0
Construction machinery.....	5,409	5,378	5,624	0.6	-4.4	-0.3	5,387	5,371	5,719	6,082	-11.4
Mining, oil field, and gas field machinery.....	7,191	7,115	7,245	1.1	-1.8	-2.4	7,256	7,292	7,355	7,984	-9.1
Industrial machinery.....	6,386	6,321	6,292	1.0	0.5	-1.1	6,356	6,369	6,256	6,236	1.9
Photographic equipment.....	1,592	1,589	1,597	0.2	-0.5	1.9	1,555	1,599	1,553	1,493	4.2
Ventilation, heating, air-conditioning, and refrigeration equipment.....	4,396	4,423	4,449	-0.6	-0.6	-1.7	4,432	4,687	4,676	4,882	-9.2
Metalworking machinery.....	5,600	5,621	5,640	-0.4	-0.3	-1.1	5,593	5,682	5,625	5,762	-2.9
Turbines, generators, and other power transmission equipment.....	9,682	9,582	9,646	1.0	-0.7	-2.5	9,258	9,726	9,660	9,322	-0.7
Material handling equipment.....	4,753	4,703	4,627	1.1	1.6	1.7	4,760	4,698	4,577	4,327	10.0
Computers and electronic products <sup>2</sup> .....	42,671	42,714	42,786	-0.1	-0.2	0.1	42,292	43,412	43,027	43,151	-2.0
Computers.....	1,557	1,523	1,526	2.2	-0.2	-3.4	1,590	1,573	1,502	1,673	-5.0
Computer storage devices.....	1,006	1,014	1,030	-0.8	-1.6	-0.6	959	1,027	1,000	1,138	-15.7
Other peripheral equipment.....	1,028	1,036	1,039	-0.8	-0.3	-0.2	1,000	1,087	1,057	1,234	-19.0
Nondefense communications equipment.....	3,991	4,095	4,082	-2.5	0.3	1.4	3,905	4,142	4,035	4,269	-8.5
Defense communications equipment.....	618	595	598	3.9	-0.5	-0.7	618	595	598	752	-17.8
Audio and video equipment.....	786	773	758	1.7	2.0	2.0	737	701	698	749	-1.6
Electronic components.....	7,759	7,622	7,599	1.8	0.3	-0.2	7,671	7,671	7,842	7,479	2.6
Nondefense search and navigation equipment.....	3,055	3,076	3,059	-0.7	0.6	0.4	3,025	3,086	3,076	3,028	-0.1
Defense search and navigation equipment.....	2,984	2,912	2,903	2.5	0.3	-0.3	3,008	3,044	2,960	2,764	8.8
Electromedical, measuring and control instruments.....	14,068	14,081	14,144	-0.1	-0.4	-0.5	13,952	14,444	14,206	14,583	-4.3
Electrical equipment, appliances, and components.....	16,164	16,289	16,335	-0.8	-0.3	0.5	16,183	16,553	16,536	16,831	-3.9
Electric lighting equipment.....	2,003	1,995	1,990	0.4	0.3	0.7	2,001	2,019	2,012	1,910	4.8
Household appliances.....	2,233	2,256	2,259	-1.0	-0.1	0.5	2,246	2,295	2,305	2,249	-0.1
Electrical equipment.....	4,897	4,917	4,963	-0.4	-0.9	-0.1	4,844	5,032	5,069	5,102	-5.1
Batteries.....	1,331	1,348	1,341	-1.3	0.5	0.3	1,356	1,365	1,340	1,437	-5.6
Transportation equipment.....	122,874	124,176	124,935	-1.0	-0.6	-0.2	121,622	125,265	125,688	125,016	-2.7
Automobiles.....	4,767	4,159	4,280	14.6	-2.8	-1.5	4,392	4,035	4,293	4,557	-3.6
Light trucks and utility vehicles.....	4,331	3,981	4,102	8.8	-2.9	-5.5	4,045	3,880	4,094	3,654	10.7
Heavy duty trucks.....	2,088	2,140	2,160	-2.4	-0.9	-4.0	2,070	2,217	2,167	2,216	-6.6
Motor vehicle bodies, parts, and trailers.....	23,404	23,458	23,257	-0.2	0.9	-1.2	23,087	23,507	23,354	23,837	-3.1
Nondefense aircraft and parts.....	62,357	63,833	64,399	-2.3	-0.9	0.2	61,943	65,040	65,184	62,893	-1.5
Defense aircraft and parts.....	10,787	11,131	11,458	-3.1	-2.9	3.1	10,783	11,214	11,510	11,785	-8.5
Ships and boats.....	2,974	2,944	2,868	1.0	2.6	1.5	3,039	2,890	2,863	3,182	-4.5
Furniture and related products.....	7,188	7,171	7,185	0.2	-0.2	-0.6	7,386	7,221	7,116	7,201	2.6
Miscellaneous durable goods.....	22,613	22,603	22,703	0.0	-0.4	0.8	22,402	22,630	22,661	22,244	0.7
Nondurable goods industries.....	237,867	237,409	236,778	0.2	0.3	0.2	237,901	239,174	237,557	247,172	-3.8
Food products.....	53,851	53,643	53,878	0.4	-0.4	0.5	52,296	52,147	52,675	51,236	2.1
Grain and oilseed milling.....	5,761	5,856	5,902	-1.6	-0.8	0.6	5,581	5,520	5,822	5,648	-1.2
Dairy products.....	7,311	7,306	7,390	0.1	-1.1	-1.4	7,543	7,551	7,575	7,517	0.3
Meat, poultry, and seafood products.....	9,198	9,187	9,186	0.1	0.0	1.3	9,057	9,103	9,122	9,527	-4.9
Beverage and tobacco products.....	20,550	20,722	20,591	-0.8	0.6	0.6	19,949	20,627	20,656	19,999	-0.3
Beverages.....	16,756	16,901	16,762	-0.9	0.8	0.9	16,311	16,891	16,866	16,180	0.8
Tobacco.....	3,794	3,821	3,829	-0.7	-0.2	-0.6	3,638	3,736	3,790	3,819	-4.7
Textile mills.....	3,177	3,167	3,138	0.3	0.9	0.2	3,191	3,198	3,158	3,110	2.6
Textile products.....	3,068	3,076	3,081	-0.3	-0.2	-0.5	3,073	3,095	3,095	3,042	1.0
Apparel.....	2,564	2,567	2,575	-0.1	-0.3	0.8	2,591	2,527	2,485	2,298	12.8
Leather and allied products.....	791	799	816	-1.0	-2.1	1.7	806	814	797	853	-5.5
Paper products.....	16,113	16,146	16,336	-0.2	-1.2	-0.4	16,012	16,160	16,386	16,454	-2.7
Pulp, paper, and paperboard mills.....	6,603	6,577	6,679	0.4	-1.5	-0.5	6,556	6,629	6,735	6,783	-3.3
Paperboard containers.....	5,116	5,164	5,235	-0.9	-1.4	0.4	5,077	5,159	5,243	5,184	-2.1
Printing.....	5,926	5,946	6,001	-0.3	-0.9	-0.7	5,934	5,908	6,049	5,927	0.1
Petroleum and coal products.....	25,025	24,923	24,893	0.4	0.1	1.6	26,904	26,619	25,200	38,046	-29.3
Petroleum refineries.....	20,451	20,353	20,276	0.5	0.4	1.8	22,287	21,963	20,610	33,224	-32.9
Chemical products.....	81,422	81,077	80,291	0.4	1.0	-0.2	81,730	82,294	81,397	80,692	1.3
Pesticides, fertilizers, and other agricultural chemicals.....	4,166	4,184	4,132	-0.4	1.3	-2.1	3,862	4,053	4,235	4,255	-9.2
Pharmaceuticals and medicines.....	32,925	32,598	32,146	1.0	1.4	0.0	33,528	33,378	32,740	31,125	7.7
Paints, coatings, and adhesives.....	3,719	3,688	3,622	0.8	1.8	1.1	3,763	3,772	3,771	3,533	6.5
Plastics and rubber products.....	25,380	25,343	25,178	0.1	0.7	0.1	25,415	25,785	25,659	25,515	-0.4

<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> 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<sup>1, 2</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		% Change <sup>6</sup>	
	June 2016 <sup>6</sup>	May 2016 <sup>7</sup>	Apr. 2016	May - June	Apr. - May	Mar. - Apr.	June 2016 <sup>6</sup>	May 2016 <sup>7</sup>	Apr. 2016	June 2015	2016 <sup>6</sup>		2015
<b>SHIPMENTS</b>													
All manufacturing industries.....	460,027	456,889	456,328	0.7	0.1	0.4	490,057	465,958	453,383	506,405	2,741,204	2,820,228	-2.8
Construction materials and supplies.....	46,498	46,542	46,811	-0.1	-0.6	0.0	51,301	48,924	47,569	51,938	278,217	271,711	2.4
Information technology.....	22,545	22,538	22,474	0.0	0.3	1.6	26,189	21,808	20,257	26,448	132,161	131,727	0.3
Computers and related products.....	1,733	1,854	1,914	-6.5	-3.1	7.6	2,543	1,623	1,503	3,364	10,798	13,023	-17.1
Motor vehicle and parts.....	54,948	53,591	55,550	2.5	-3.5	2.2	59,061	54,523	56,152	58,061	337,336	321,743	4.8
Capital goods.....	82,071	82,532	81,520	-0.6	1.2	0.4	91,795	81,666	77,408	95,866	488,205	506,814	-3.7
Nondefense capital goods <sup>3</sup> .....	71,807	72,641	71,914	-1.1	1.0	1.0	80,549	71,989	68,566	84,803	429,337	451,816	-5.0
Excluding aircraft.....	62,771	62,921	63,367	-0.2	-0.7	0.6	69,401	62,624	61,303	73,576	378,785	396,733	-4.5
Defense capital goods <sup>4</sup> .....	10,264	9,891	9,606	3.8	3.0	-3.9	11,246	9,677	8,842	11,063	58,868	54,998	7.0
Consumer goods.....	185,340	182,850	183,062	1.4	-0.1	0.8	191,869	186,250	181,165	203,041	1,090,958	1,152,024	-5.3
Consumer durable goods.....	37,252	36,807	38,542	1.2	-4.5	1.7	39,842	37,013	38,707	41,567	232,419	229,440	1.3
Consumer nondurable goods.....	148,088	146,043	144,520	1.4	1.1	0.6	152,027	149,237	142,458	161,474	858,539	922,584	-6.9
<b>NEW ORDERS</b>													
All manufacturing industries <sup>5</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
Construction materials and supplies.....	46,409	46,448	46,955	-0.1	-1.1	0.2	50,857	49,440	48,022	52,263	280,720	274,164	2.4
Information technology.....	22,801	23,210	23,344	-1.8	-0.6	2.9	26,481	22,067	21,332	26,502	138,039	137,006	0.8
Computers and related products.....	1,725	1,860	1,907	-7.3	-2.5	7.4	2,535	1,629	1,496	3,423	10,754	13,168	-18.3
Motor vehicle and parts.....	54,948	53,659	55,408	2.4	-3.2	1.8	58,546	54,644	55,501	57,492	335,761	321,105	4.6
Capital goods.....	72,117	82,084	87,303	-12.1	-6.0	7.5	83,361	78,134	80,775	99,329	476,465	493,185	-3.4
Nondefense capital goods <sup>3</sup> .....	64,835	72,920	74,184	-11.1	-1.7	8.3	73,284	70,193	68,497	86,075	415,018	440,552	-5.8
Excluding aircraft.....	62,399	62,153	62,546	0.4	-0.6	-0.9	68,467	61,201	61,384	71,346	383,194	398,255	-3.8
Defense capital goods <sup>4</sup> .....	7,282	9,164	13,119	-20.5	-30.1	3.3	10,077	7,941	12,278	13,254	61,447	52,633	16.7
Consumer goods.....	185,380	182,817	183,011	1.4	-0.1	0.8	191,650	186,189	181,141	202,785	1,091,033	1,151,970	-5.3
Consumer durable goods.....	37,292	36,774	38,491	1.4	-4.5	1.5	39,623	36,952	38,683	41,311	232,494	229,386	1.4
Consumer nondurable goods.....	148,088	146,043	144,520	1.4	1.1	0.6	152,027	149,237	142,458	161,474	858,539	922,584	-6.9
<b>UNFILLED ORDERS</b>													
All manufacturing industries <sup>5</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	(X)	(X)	-1.9
Construction materials and supplies.....	46,003	46,092	46,186	-0.2	-0.2	0.3	46,810	47,254	46,738	46,561	(X)	(X)	0.5
Information technology.....	124,385	124,129	123,457	0.2	0.5	0.7	125,411	125,119	124,860	118,239	(X)	(X)	6.1
Computers and related products.....	2,403	2,411	2,405	-0.3	0.2	-0.3	2,403	2,411	2,405	2,425	(X)	(X)	-0.9
Motor vehicle and parts.....	22,415	22,415	22,347	0.0	0.3	-0.6	21,984	22,499	22,378	23,357	(X)	(X)	-5.9
Capital goods.....	837,532	847,486	847,934	-1.2	-0.1	0.7	839,136	847,570	851,102	868,981	(X)	(X)	-3.4
Nondefense capital goods <sup>3</sup> .....	700,582	707,554	707,275	-1.0	0.0	0.3	700,153	707,418	709,214	725,385	(X)	(X)	-3.5
Excluding aircraft.....	220,071	220,443	221,211	-0.2	-0.3	-0.4	222,095	223,029	224,452	227,301	(X)	(X)	-2.3
Defense capital goods <sup>4</sup> .....	136,950	139,932	140,659	-2.1	-0.5	2.6	138,983	140,152	141,888	143,596	(X)	(X)	-3.2
Consumer goods.....	4,334	4,294	4,327	0.9	-0.8	-1.2	4,267	4,486	4,547	4,274	(X)	(X)	-0.2
Consumer durable goods.....	4,334	4,294	4,327	0.9	-0.8	-1.2	4,267	4,486	4,547	4,274	(X)	(X)	-0.2
<b>TOTAL INVENTORIES</b>													
All manufacturing industries.....	619,119	619,667	620,455	-0.1	-0.1	-0.1	616,552	624,889	623,259	640,506	(X)	(X)	-3.7
Construction materials and supplies.....	64,671	64,695	64,614	0.0	0.1	0.0	64,641	65,615	65,539	67,852	(X)	(X)	-4.7
Information technology.....	36,564	36,652	36,703	-0.2	-0.1	0.0	36,258	37,327	36,680	38,021	(X)	(X)	-4.6
Computers and related products.....	3,591	3,573	3,595	0.5	-0.6	-1.7	3,549	3,687	3,559	4,045	(X)	(X)	-12.3
Motor vehicle and parts.....	34,590	33,738	33,799	2.5	-0.2	-2.0	33,594	33,639	33,908	34,264	(X)	(X)	-2.0
Capital goods.....	189,868	191,485	192,714	-0.8	-0.6	-0.2	189,305	194,178	193,736	196,101	(X)	(X)	-3.5
Nondefense capital goods <sup>3</sup> .....	169,457	170,690	171,839	-0.7	-0.7	-0.4	168,655	173,306	172,920	173,985	(X)	(X)	-3.1
Excluding aircraft.....	118,165	117,990	118,561	0.1	-0.5	-0.6	117,469	119,529	118,847	121,543	(X)	(X)	-3.4
Defense capital goods <sup>4</sup> .....	20,411	20,795	20,875	-1.8	-0.4	1.5	20,650	20,872	20,816	22,116	(X)	(X)	-6.6
Consumer goods.....	177,609	176,246	176,326	0.8	0.0	0.3	176,919	176,697	175,780	183,853	(X)	(X)	-3.8
Consumer durable goods.....	29,939	29,044	29,364	3.1	-1.1	-0.6	29,014	28,731	29,197	28,410	(X)	(X)	2.1
Consumer nondurable goods.....	147,670	147,202	146,962	0.3	0.2	0.5	147,905	147,966	146,583	155,443	(X)	(X)	-4.8

X Not Applicable      <sup>6</sup> Preliminary      <sup>7</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> Topical series are regroupings of the separate industry categories.

<sup>3</sup> 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; electromedical, measuring, and control instruments; electrical equipment; other electrical equipment, appliances, and components; heavy duty trucks; aircraft; railroad rolling stock; ships and boats; office and institutional furniture; and medical equipment and supplies.

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

<sup>5</sup> Estimates and percent changes exclude semiconductor industry data.

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

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

Table 6. Value of Manufacturers' Inventories, by Stage of Fabrication, by Industry Group<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				% Change June 2016/ 2015
	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	
<b>MATERIALS AND SUPPLIES</b>											
All manufacturing industries.....	206,360	206,954	206,725	-0.3	0.1	-0.3	205,056	207,068	206,641	213,229	-3.8
Durable goods industries.....	127,967	128,157	128,212	-0.1	0.0	-0.5	126,761	127,984	127,897	132,734	-4.5
Wood products.....	4,575	4,552	4,572	0.5	-0.4	1.6	4,371	4,309	4,340	5,707	-23.4
Nonmetallic mineral products.....	5,266	5,299	5,297	-0.6	0.0	0.9	5,285	5,331	5,323	5,372	-1.6
Primary metals.....	12,315	12,254	12,305	0.5	-0.4	-2.8	12,132	11,918	11,999	13,411	-9.5
Fabricated metal products.....	17,610	17,681	17,677	-0.4	0.0	-0.6	17,568	17,663	17,667	18,332	-4.2
Machinery.....	24,017	24,115	24,445	-0.4	-1.3	-1.4	24,002	24,390	24,627	26,158	-8.2
Computers and electronic products.....	17,566	17,489	17,316	0.4	1.0	1.4	17,360	17,656	17,378	17,041	1.9
Electrical equipment, appliances, and components.....	6,481	6,537	6,579	-0.9	-0.6	0.5	6,445	6,611	6,619	6,907	-6.7
Transportation equipment.....	29,188	29,257	29,081	-0.2	0.6	-0.8	28,622	29,081	29,039	28,842	-0.8
Furniture and related products.....	3,622	3,611	3,604	0.3	0.2	-0.2	3,664	3,615	3,593	3,635	0.8
Miscellaneous products.....	7,327	7,362	7,336	-0.5	0.4	1.2	7,312	7,410	7,312	7,329	-0.2
Nondurable goods industries.....	78,393	78,797	78,513	-0.5	0.4	0.0	78,295	79,084	78,744	80,495	-2.7
Food products.....	18,228	18,693	18,310	-2.5	2.1	-0.2	17,852	18,198	17,968	17,740	0.6
Beverage and tobacco products.....	5,029	5,018	4,960	0.2	1.2	-0.1	4,845	4,983	5,060	4,880	-0.7
Textiles.....	1,150	1,148	1,159	0.2	-0.9	-0.5	1,158	1,161	1,160	1,165	-0.6
Textile products.....	1,063	1,069	1,068	-0.6	0.1	-0.5	1,066	1,077	1,068	1,072	-0.6
Apparel.....	687	699	717	-1.7	-2.5	0.3	699	696	704	727	-3.9
Leather and allied products.....	237	238	243	-0.4	-2.1	1.7	238	240	238	248	-4.0
Paper products.....	8,209	8,239	8,348	-0.4	-1.3	0.2	8,127	8,197	8,358	8,341	-2.6
Printing.....	2,730	2,762	2,793	-1.2	-1.1	0.5	2,745	2,756	2,797	2,912	-5.7
Petroleum and coal products.....	5,985	5,762	5,676	3.9	1.5	-2.2	6,436	6,246	5,821	8,759	-26.5
Chemical products.....	24,997	25,124	25,218	-0.5	-0.4	0.4	25,064	25,437	25,481	24,462	2.5
Plastics and rubber products.....	10,078	10,045	10,021	0.3	0.2	0.4	10,065	10,093	10,089	10,189	-1.2
<b>WORK IN PROCESS</b>											
All manufacturing industries.....	192,282	194,097	193,441	-0.9	0.3	0.2	191,879	196,136	194,440	201,117	-4.6
Durable goods industries.....	143,681	146,073	146,394	-1.6	-0.2	-0.5	143,467	147,893	147,263	150,655	-4.8
Wood products.....	2,216	2,197	2,192	0.9	0.2	-1.1	2,220	2,227	2,222	2,231	-0.5
Nonmetallic mineral products.....	1,441	1,454	1,451	-0.9	0.2	-1.2	1,468	1,502	1,494	1,460	0.5
Primary metals.....	9,189	9,325	9,263	-1.5	0.7	-1.4	9,234	9,382	9,278	11,175	-17.4
Fabricated metal products.....	12,871	12,785	12,752	0.7	0.3	-0.8	12,836	12,814	12,744	13,000	-1.3
Machinery.....	19,280	18,599	18,501	3.7	0.5	-1.0	18,991	18,752	18,412	18,213	4.3
Computers and electronic products.....	13,110	13,421	13,625	-2.3	-1.5	-1.2	13,277	13,871	13,869	14,818	-10.4
Electrical equipment, appliances, and components.....	3,437	3,443	3,448	-0.2	-0.1	-0.5	3,450	3,517	3,496	3,639	-5.2
Transportation equipment.....	77,236	79,976	80,201	-3.4	-0.3	-0.1	77,057	80,926	80,778	81,380	-5.3
Furniture and related products.....	1,083	1,069	1,091	1.3	-2.0	-0.3	1,095	1,070	1,088	1,036	5.7
Miscellaneous products.....	3,818	3,804	3,870	0.4	-1.7	0.9	3,839	3,832	3,882	3,703	3.7
Nondurable goods industries.....	48,601	48,024	47,047	1.2	2.1	2.5	48,412	48,243	47,177	50,462	-4.1
Food products.....	6,245	6,029	6,113	3.6	-1.4	2.9	5,677	5,452	5,776	5,331	6.5
Beverage and tobacco products.....	7,532	7,629	7,608	-1.3	0.3	0.5	7,115	7,407	7,542	7,045	1.0
Textiles.....	695	693	691	0.3	0.3	0.6	692	698	696	690	0.3
Textile products.....	442	444	446	-0.5	-0.4	0.2	439	446	455	419	4.8
Apparel.....	315	323	328	-2.5	-1.5	0.6	337	331	322	362	-6.9
Leather and allied products.....	106	106	103	0.0	2.9	4.0	105	107	104	103	1.9
Paper products.....	1,261	1,262	1,271	-0.1	-0.7	0.1	1,265	1,266	1,270	1,321	-4.2
Printing.....	1,601	1,591	1,598	0.6	-0.4	-2.6	1,546	1,525	1,602	1,416	9.2
Petroleum and coal products.....	8,079	7,897	7,648	2.3	3.3	4.6	8,597	8,428	7,903	12,675	-32.2
Chemical products.....	19,305	19,036	18,239	1.4	4.4	3.6	19,607	19,518	18,437	18,102	8.3
Plastics and rubber products.....	3,020	3,014	3,002	0.2	0.4	0.0	3,032	3,065	3,070	2,998	1.1
<b>FINISHED GOODS</b>											
All manufacturing industries.....	220,477	218,616	220,289	0.9	-0.8	-0.3	219,617	221,685	222,178	226,160	-2.9
Durable goods industries.....	109,604	108,028	109,071	1.5	-1.0	-0.1	108,423	109,838	110,542	109,945	-1.4
Wood products.....	4,421	4,388	4,295	0.8	2.2	0.3	4,389	4,482	4,452	4,759	-7.8
Nonmetallic mineral products.....	6,269	6,212	6,164	0.9	0.8	-0.4	6,322	6,438	6,382	6,279	0.7
Primary metals.....	9,749	9,656	9,698	1.0	-0.4	-1.2	9,594	9,733	9,839	11,231	-14.6
Fabricated metal products.....	18,096	18,102	18,161	0.0	-0.3	0.4	18,150	18,555	18,638	18,366	-1.2
Machinery.....	22,427	22,686	22,960	-1.1	-1.2	-0.9	22,204	23,138	23,257	23,197	-4.3
Computers and electronic products.....	11,995	11,804	11,845	1.6	-0.3	-0.2	11,655	11,885	11,780	11,292	3.2
Electrical equipment, appliances, and components.....	6,246	6,309	6,308	-1.0	0.0	0.9	6,288	6,425	6,421	6,285	0.0
Transportation equipment.....	16,450	14,943	15,653	10.1	-4.5	0.6	15,943	15,258	15,871	14,794	7.8
Furniture and related products.....	2,483	2,491	2,490	-0.3	0.0	-1.3	2,627	2,536	2,435	2,530	3.8
Miscellaneous products.....	11,468	11,437	11,497	0.3	-0.5	0.5	11,251	11,388	11,467	11,212	0.3
Nondurable goods industries.....	110,873	110,588	111,218	0.3	-0.6	-0.5	111,194	111,847	111,636	116,215	-4.3
Food products.....	29,378	28,921	29,455	1.6	-1.8	0.4	28,767	28,497	28,931	28,165	2.1
Beverage and tobacco products.....	7,989	8,075	8,023	-1.1	0.6	1.3	7,989	8,237	8,054	8,074	-1.1
Textiles.....	1,332	1,326	1,288	0.5	3.0	0.6	1,341	1,339	1,302	1,255	6.9
Textile products.....	1,563	1,563	1,567	0.0	-0.3	-0.7	1,568	1,572	1,572	1,551	1.1
Apparel.....	1,562	1,545	1,530	1.1	1.0	1.1	1,555	1,500	1,459	1,209	28.6
Leather and allied products.....	448	455	470	-1.5	-3.2	1.3	463	467	455	502	-7.8
Paper products.....	6,643	6,645	6,717	0.0	-1.1	-1.1	6,620	6,697	6,758	6,792	-2.5
Printing.....	1,595	1,593	1,610	0.1	-1.1	-0.8	1,643	1,627	1,650	1,599	2.8
Petroleum and coal products.....	10,961	11,264	11,569	-2.7	-2.6	1.6	11,871	11,945	11,476	16,612	-28.5
Chemical products.....	37,120	36,917	36,834	0.5	0.2	-2.4	37,059	37,339	37,479	38,128	-2.8
Plastics and rubber products.....	12,282	12,284	12,155	0.0	1.1	-0.2	12,318	12,627	12,500	12,328	-0.1

<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 fulfilled 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 <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>.