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Full Report on Manufacturers' Shipments, Inventories and Orders September 2011

Summary

New orders for manufactured goods in September, up three consecutive months, increased \$1.4 billion or 0.3 percent to \$453.5 billion, the U.S. Census Bureau reported today. This followed a 0.1 percent August increase. Excluding transportation, new orders increased 1.3 percent.

Shipments, up four consecutive months, increased \$1.3 billion or 0.3 percent to \$452.7 billion. This followed a 0.1 percent August increase.

Unfilled orders, up seventeen of the last eighteen months, increased \$7.5 billion or 0.9 percent to \$886.3 billion. This followed a 0.9 percent August increase. The unfilled orders-to-shipments ratio was 6.10, up from 6.07 in August.

Inventories, up twenty three of the last twenty four months, increased \$0.6 billion or 0.1 percent to \$601.3 billion. This was at the highest level since the series was first published on a NAICS basis in 1992 and followed a 0.3 percent August increase. The inventories-to-shipments ratio was 1.33, unchanged from August.

New Orders

New orders for manufactured durable goods in September, down following two consecutive monthly increases, decreased \$1.2 billion or 0.6 percent to \$201.0 billion, revised from the previously published 0.8 percent decrease. This followed a 0.1 percent August increase.

Transportation equipment, also down following two consecutive monthly increases, had the largest decrease, \$3.8 billion or 7.1 percent to \$49.9 billion.

New orders for manufactured nondurable goods increased \$2.6 billion or 1.0 percent to \$252.5 billion.

Shipments

Shipments of manufactured durable goods in September, down following four consecutive monthly increases, decreased \$1.3 billion or 0.6 percent to \$200.2 billion, revised from the previously published 0.7 percent decrease. This followed a 0.1 percent August increase.

Transportation equipment, down two consecutive

months, decreased \$1.1 billion or 2.4 percent to \$45.8 billion.

Shipments of manufactured nondurable goods, up four consecutive months, increased \$2.6 billion or 1.0 percent to \$252.5 billion. This followed a slight August increase. Petroleum and coal products, up two of the last three months, led the increase, up \$2.4 billion or 3.5 percent to \$72.0 billion.

Unfilled Orders

Unfilled orders for manufactured durable goods in September, up seventeen of the last eighteen months, increased \$7.5 billion or 0.9 percent to \$886.3 billion, revised from the previously published 0.8 percent increase. This followed a 0.9 percent August increase.

Transportation equipment, up nine consecutive months, had the largest increase, \$4.1 billion or 0.8 percent to \$512.4 billion.

Inventories

Inventories of manufactured durable goods in September, up twenty one consecutive months, increased \$0.4 billion or 0.1 percent to \$365.6 billion, unchanged from the previously published increase. This was at the highest level since the series was first published on a NAICS basis and followed a 0.9 percent August increase.

Transportation equipment, also up twenty one consecutive months, had the largest increase, \$0.5 billion or 0.4 percent to \$112.8 billion.

Inventories of manufactured nondurable goods, up following four consecutive monthly decreases, increased \$0.3 billion or 0.1 percent to \$235.7 billion. This followed a 0.5 percent August decrease. Petroleum and coal products, also up following four consecutive monthly decreases, drove the increase, up \$0.4 billion or 0.8 percent to \$50.2 billion.

By stage of fabrication, September materials and supplies increased 0.3 percent in durable goods and decreased 1.1 percent in nondurable goods. Work in process decreased 0.4 percent in durable goods and increased 1.2 percent in nondurable goods. Finished goods increased 0.6 percent in durable goods and 0.5 percent in nondurable goods.

Table 1. Value of Manufacturers' Shipments for Industry Groups¹

[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			
	Sept. 2011 ^P	Aug. 2011 ^F	July 2011	Aug. - Sept.	July - Aug.	June - July	Sept. 2011 ^P	Aug. 2011 ^F	July 2011	Sept. 2010	2011 ^P	2010	Percent 2011/2010
All manufacturing industries.....	452,716	451,411	451,182	0.3	0.1	1.2	466,116	472,254	437,119	420,466	4,008,352	3,586,264	11.8
Excluding transportation.....	406,920	404,468	401,832	0.6	0.7	0.5	415,745	422,572	397,695	370,427	3,592,035	3,184,896	12.8
Excluding defense.....	442,943	441,511	441,699	0.3	0.0	1.3	455,448	462,563	428,675	407,596	3,918,756	3,477,601	12.7
With unfilled orders.....	145,219	144,855	143,721	0.3	0.8	0.7	154,863	150,485	133,150	144,090	1,277,829	1,184,571	7.9
Durable goods industries.....	200,205	201,505	201,376	-0.6	0.1	2.1	212,452	210,208	186,229	198,645	1,772,044	1,645,451	7.7
Wood products.....	5,283	5,296	5,339	-0.2	-0.8	1.6	5,592	5,748	5,512	5,474	48,268	50,260	-4.0
Nonmetallic mineral products.....	7,903	7,893	7,834	0.1	0.8	-0.1	8,543	8,963	8,149	8,229	71,511	69,789	2.5
Primary metals.....	24,489	24,217	24,353	1.1	-0.6	1.7	25,422	26,038	23,583	19,547	213,968	166,207	28.7
Iron and steel mills.....	10,791	10,927	11,177	-1.2	-2.2	-0.5	11,115	11,695	10,686	10,114	102,569	85,968	19.3
Aluminum and nonferrous metals.....	12,027	11,616	11,493	3.5	1.1	4.1	12,509	12,548	11,303	7,903	96,471	67,891	42.1
Ferrous metal foundries.....	1,671	1,674	1,683	-0.2	-0.5	0.9	1,798	1,795	1,594	1,530	14,928	12,348	20.9
Fabricated metal products.....	25,355	25,055	24,848	1.2	0.8	-0.8	26,911	27,285	24,146	25,094	225,369	212,792	5.9
Machinery.....	31,073	31,461	29,737	-1.2	5.8	0.7	32,131	31,534	27,770	28,444	263,356	234,783	12.2
Farm machinery.....	2,522	3,681	2,971	-31.5	23.9	21.5	2,512	3,675	2,823	2,278	24,045	20,669	16.3
Construction machinery.....	4,398	4,297	4,105	2.4	4.7	10.1	4,430	4,355	3,937	3,009	33,976	24,197	40.4
Mining, oil field, and gas field machinery.....	1,705	1,816	1,774	-6.1	2.4	3.6	1,662	1,794	1,589	1,447	14,710	13,703	7.3
Industrial machinery.....	3,534	3,393	3,221	4.2	5.3	-0.8	3,921	3,002	2,916	3,111	28,613	24,118	18.6
Photographic equipment.....	635	642	612	-1.1	4.9	-3.8	695	687	541	755	5,825	6,077	-4.1
Ventilation, heating, air-conditioning, and refrigeration equipment.....	2,491	2,588	2,608	-3.7	-0.8	-1.0	2,696	2,804	2,672	2,989	23,872	25,187	-5.2
Metalworking machinery.....	1,908	1,952	1,965	-2.3	-0.7	0.8	2,117	2,085	1,792	2,182	16,931	16,808	0.7
Turbines, generators, and other power transmission equipment.....	4,646	3,908	3,560	18.9	9.8	-16.7	4,573	3,932	3,253	4,072	33,923	28,751	18.0
Material handling equipment.....	2,617	2,631	2,513	-0.5	4.7	-1.3	2,695	2,779	2,332	2,269	22,531	19,264	17.0
Computers and electronic products ²	30,815	31,185	30,990	-1.2	0.6	1.7	32,730	30,489	30,073	33,268	272,493	266,964	2.1
Computers.....	4,063	4,092	4,294	-0.7	-4.7	4.6	4,187	3,877	4,967	4,432	36,080	32,575	10.8
Computer storage devices.....	788	768	628	2.6	22.3	-6.4	1,140	633	419	850	6,171	5,386	14.6
Other peripheral equipment.....	976	934	900	4.5	3.8	-6.8	1,293	849	663	1,119	7,929	7,287	8.8
Nondefense communications equipment.....	2,582	2,574	2,567	0.3	0.3	0.0	3,125	2,433	2,191	3,622	23,369	28,061	-16.7
Defense communications equipment.....	593	495	466	19.8	6.2	-8.6	672	478	460	626	4,540	5,005	-9.3
Audio and video equipment.....	239	249	250	-4.0	-0.4	-1.6	228	212	204	259	1,991	1,945	2.4
Electronic components.....	3,217	3,338	3,210	-3.6	4.0	-1.5	3,475	3,483	2,975	3,807	29,824	30,771	-3.1
Nondefense search and navigation equipment.....	1,121	1,185	1,220	-5.4	-2.9	1.5	1,269	1,234	1,027	1,355	10,587	9,626	10.0
Defense search and navigation equipment.....	2,785	2,780	2,720	0.2	2.2	0.0	2,922	2,806	2,364	3,138	24,375	27,161	-10.3
Electromedical, measuring, and control instruments.....	7,272	7,359	7,442	-1.2	-1.1	-2.7	8,335	7,077	6,385	8,370	65,683	62,611	4.9
Electrical equipment, appliances, and components.....	10,262	10,305	9,921	-0.4	3.9	-2.3	11,044	10,784	9,349	10,362	91,045	85,458	6.5
Electric lighting equipment.....	1,006	1,023	1,020	-1.7	0.3	-0.8	1,056	1,056	968	1,034	9,004	8,713	3.3
Household appliances.....	1,510	1,499	1,524	0.7	-1.6	-1.5	1,587	1,552	1,400	1,590	13,987	14,259	-1.9
Electrical equipment.....	3,857	3,947	3,649	-2.3	8.2	-1.9	4,280	4,090	3,407	3,935	33,821	31,091	8.8
Batteries.....	869	873	802	-0.5	8.9	-7.6	977	938	738	958	7,449	7,208	3.3
Transportation equipment.....	45,796	46,943	49,350	-2.4	-4.9	7.0	50,371	49,682	39,424	50,039	416,317	401,368	3.7
Automobiles.....	4,998	5,033	5,325	-0.7	-5.5	3.0	5,549	5,728	4,285	5,631	46,181	44,573	3.6
Light trucks and utility vehicles.....	7,261	7,681	9,506	-5.5	-19.2	19.5	8,265	8,427	6,262	8,368	70,222	59,725	17.6
Heavy duty trucks.....	2,021	2,003	1,937	0.9	3.4	3.1	2,214	2,145	1,704	1,657	16,299	13,851	17.7
Motor vehicle bodies, parts, and trailers.....	13,894	14,153	14,996	-1.8	-5.6	8.1	14,846	15,596	12,236	14,244	129,133	120,978	6.7
Nondefense aircraft and parts.....	7,981	7,804	7,550	2.3	3.4	8.8	8,689	7,747	6,319	7,142	63,325	58,383	8.5
Defense aircraft and parts.....	3,801	4,053	3,819	-6.2	6.1	-9.4	4,335	3,879	3,320	5,543	36,531	44,647	-18.2
Ships and boats.....	2,327	2,334	2,309	-0.3	1.1	1.3	2,378	2,283	2,091	2,645	20,789	21,796	-4.6
Furniture and related products.....	5,526	5,577	5,421	-0.9	2.9	-1.8	5,671	6,008	5,506	5,353	49,991	46,498	7.5
Miscellaneous durable goods.....	13,703	13,573	13,583	1.0	-0.1	1.3	14,037	13,677	12,717	12,835	119,726	111,332	7.5
Nondurable goods industries.....	252,511	249,906	249,806	1.0	0.0	0.4	253,664	262,046	250,890	221,821	2,236,308	1,940,813	15.2
Food products.....	62,463	62,314	61,571	0.2	1.2	0.8	63,993	63,497	59,473	57,410	542,891	488,569	11.1
Grain and oilseed milling.....	8,306	8,434	8,269	-1.5	2.0	0.6	8,439	8,892	7,985	7,261	73,152	62,432	17.2
Dairy products.....	9,499	9,498	9,486	0.0	0.1	1.3	9,659	9,790	9,432	8,718	82,279	72,317	13.8
Meat, poultry, and seafood products.....	17,627	17,544	17,165	0.5	2.2	-1.0	17,488	17,883	17,042	16,267	153,899	143,559	7.2
Beverage and tobacco products.....	12,396	12,257	12,004	1.1	2.1	-4.8	12,443	12,911	11,854	11,715	108,258	97,338	11.2
Beverages.....	9,681	9,343	9,469	3.6	-1.3	-2.1	9,728	9,997	9,319	9,882	84,752	74,043	14.5
Tobacco.....	2,715	2,914	2,535	-6.8	15.0	-13.6	2,715	2,914	2,535	2,733	23,506	23,295	0.9
Textile mills.....	2,594	2,587	2,611	0.3	-0.9	-0.5	2,632	2,700	2,525	2,550	23,732	22,461	5.7
Textile products.....	1,867	1,841	1,826	1.4	0.8	-1.5	1,871	1,921	1,866	1,762	16,820	16,461	2.2
Apparel.....	1,397	1,375	1,291	1.6	6.5	0.9	1,515	1,507	1,282	1,275	11,510	10,798	6.6
Leather and allied products.....	308	311	318	-1.0	-2.2	-0.6	349	331	316	345	2,867	2,821	1.6
Paper products.....	14,227	14,309	14,399	-0.6	-0.6	0.2	14,518	15,034	14,307	14,982	130,029	128,563	1.1
Pulp, paper, and paperboard mills.....	6,728	6,746	6,754	-0.3	-0.1	-0.5	6,845	7,102	6,766	6,965	60,832	59,800	1.7
Paperboard containers.....	4,223	4,209	4,317	0.3	-2.5	0.5	4,301	4,444	4,303	4,536	39,138	38,412	1.9
Printing.....	7,033	7,072	6,892	-0.6	2.6	-1.0	7,426	7,262	6,432	7,404	62,425	62,295	0.2
Petroleum and coal products.....	71,965	69,525	70,862	3.5	-1.9	2.4	70,798	75,251	76,728	50,532	634,487	463,512	36.9
Petroleum refineries.....	67,868	65,139	66,541	4.2	-2.1	2.5	65,980	69,783	71,761	46,829	597,079	433,944	37.6
Chemical products.....	61,939	62,092	61,828	-0.2	0.4	-0.9	61,370	64,141	59,990	58,225	557,364	510,042	9.3
Pesticides, fertilizers, and other agricultural chemicals.....	5,528	5,440	5,296	1.6	2.7	0.6	4,610	4,855	4,239	3,758	49,192	38,539	27.6
Pharmaceuticals and medicines.....	15,357	15,368	15,174	-0.1	1.3	-4.4	15,311	15,923	14,499	16,597	138,667	141,217	-1.8
Paints, coatings, and adhesives.....	2,561	2,519	2,481	1.7	1.5	0.1	2,719	2,790	2,627	2,560	23,165	23,223	-0.2
Plastics and rubber products.....	16,322	16,223	16,204	0.6	0.1	0.5	16,749	17,491	16,117	15,621	145,925	137,953	5.8

^P Preliminary^F 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 no longer shown separately, but are included in computers and electronic products, and all other applicable aggregate totals.

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

[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		
	Sept. 2011 ^P	Aug. 2011 ^f	July 2011	Aug. - Sept.	July - Aug.	June - July	Sept. 2011 ^P	Aug. 2011 ^f	July 2011	Sept. 2010	2011 ^P	2010	Percent 2011/2010
All manufacturing industries ²	453,541	452,121	451,885	0.3	0.1	2.1	465,343	469,793	433,515	423,825	3,999,637	3,551,484	12.6
Excluding transportation ²	403,641	398,424	398,627	1.3	-0.1	0.6	412,304	413,708	392,752	369,183	3,564,699	3,158,523	12.9
Excluding defense ²	442,452	441,626	441,705	0.2	0.0	2.3	453,879	460,836	426,740	410,047	3,903,804	3,444,666	13.3
With unfilled orders ²	152,751	152,469	151,297	0.2	0.8	4.0	159,637	154,912	137,588	152,641	1,327,277	1,202,554	10.4
Durable goods industries ²	201,030	202,215	202,079	-0.6	0.1	4.2	211,679	207,747	182,625	202,004	1,763,329	1,610,671	9.5
Primary metals.....	25,100	24,432	24,438	2.7	0.0	7.4	25,153	26,004	23,701	19,109	213,841	171,382	24.8
Iron and steel mills.....	11,334	10,890	11,101	4.1	-1.9	15.1	10,948	11,520	10,638	9,508	100,549	90,134	11.6
Aluminum and nonferrous metals.....	12,083	11,760	11,614	2.7	1.3	1.7	12,451	12,589	11,427	8,118	97,825	68,660	42.5
Ferrous metal foundries.....	1,683	1,782	1,723	-5.6	3.4	2.4	1,754	1,895	1,636	1,483	15,467	12,588	22.9
Fabricated metal products.....	25,791	25,477	25,648	1.2	-0.7	-0.8	26,926	27,176	24,852	24,731	231,026	215,012	7.4
Machinery.....	32,629	32,007	32,621	1.9	-1.9	1.9	32,918	31,685	30,688	30,460	285,250	247,030	15.5
Construction machinery.....	4,678	3,795	4,575	23.3	-17.0	9.4	4,722	3,672	4,465	3,198	35,834	25,069	42.9
Mining, oil field, and gas field machinery.....	1,995	1,546	2,680	29.0	-42.3	17.8	1,702	1,653	2,545	1,798	19,080	15,744	21.2
Industrial machinery.....	3,304	3,468	2,770	-4.7	25.2	-18.1	3,361	2,791	2,706	3,227	28,993	25,599	13.3
Photographic equipment.....	644	644	628	0.0	2.5	-9.1	759	671	566	633	6,012	6,029	-0.3
Ventilation, heating, air-conditioning, and refrigeration equipment.....	1,768	2,155	2,929	-18.0	-26.4	11.3	1,612	2,405	2,887	3,427	26,584	27,978	-5.0
Metalworking machinery.....	1,969	2,001	2,089	-1.6	-4.2	-1.0	2,160	2,117	1,884	2,185	18,137	16,679	8.7
Turbines, generators, and other power transmission equipment.....	6,430	4,755	4,689	35.2	1.4	-15.4	6,317	4,678	4,428	4,690	40,804	30,558	33.5
Material handling equipment.....	2,754	2,844	2,613	-3.2	8.8	10.2	3,052	2,891	2,279	2,556	23,683	20,228	17.1
Computers and electronic products ²	24,514	24,075	23,749	1.8	1.4	-3.5	28,706	22,541	20,958	30,516	214,251	216,126	-0.9
Computers.....	4,296	4,071	3,970	5.5	2.5	-6.3	4,420	3,856	4,643	4,524	35,957	32,614	10.3
Nondefense communications equipment.....	2,581	2,433	2,266	6.1	7.4	-24.3	3,436	2,493	1,805	4,014	22,489	27,764	-19.0
Defense communications equipment.....	419	496	470	-15.5	5.5	-0.8	603	370	306	856	3,969	5,212	-23.8
Electronic components.....	3,299	3,295	3,243	0.1	1.6	1.9	3,511	3,540	3,070	3,685	30,054	31,643	-5.0
Nondefense search and navigation equipment.....	1,329	1,223	1,157	8.7	5.7	-11.0	1,504	1,194	997	1,149	11,087	9,367	18.4
Defense search and navigation equipment.....	2,801	2,770	2,781	1.1	-0.4	-1.8	3,121	2,354	2,011	4,163	23,895	27,722	-13.8
Electromedical, measuring, and control instruments.....	7,314	7,329	7,664	-0.2	-4.4	5.8	8,913	6,521	6,464	9,399	66,928	63,413	5.5
Electrical equipment, appliances, and components.....	10,759	10,550	10,163	2.0	3.8	-2.7	11,207	10,674	9,866	10,568	94,311	89,233	5.7
Electric lighting equipment.....	1,021	993	1,020	2.8	-2.6	-2.1	1,062	1,021	939	1,076	9,097	8,871	2.5
Household appliances.....	1,488	1,517	1,492	-1.9	1.7	-6.3	1,572	1,534	1,446	1,619	14,049	14,313	-1.8
Electrical equipment.....	3,870	3,895	3,818	-0.6	2.0	-0.7	4,025	3,910	3,740	3,797	35,294	32,756	7.7
Transportation equipment.....	49,900	53,697	53,258	-7.1	0.8	15.0	53,039	56,085	40,763	54,642	434,938	392,961	10.7
Motor vehicle bodies, parts, and trailers.....	14,013	14,314	15,138	-2.1	-5.4	8.5	14,982	15,400	12,400	14,323	128,824	119,756	7.6
Nondefense aircraft and parts.....	10,356	13,814	10,947	-25.0	26.2	49.9	10,437	14,558	8,879	12,828	79,992	60,371	32.5
Defense aircraft and parts.....	3,357	5,086	4,093	-34.0	24.3	0.1	3,535	4,416	2,931	6,428	38,633	44,827	-13.8
Ships and boats.....	3,163	1,829	1,948	72.9	-6.1	-25.4	2,729	1,392	1,137	1,593	22,399	16,671	34.4
Furniture and related products.....	5,453	5,270	5,438	3.5	-3.1	-0.5	5,563	5,249	5,411	5,427	50,354	47,101	6.9
Nondurable goods industries.....	252,511	249,906	249,806	1.0	0.0	0.4	253,664	262,046	250,890	221,821	2,236,308	1,940,813	15.2

^P Preliminary ^f 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 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 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/>>.

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

[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				Percent Change Sept. 11/10
	Monthly			Percent Change			Monthly				
	Sept. 2011 ^P	Aug. 2011 ^r	July 2011	Aug. - Sept.	July - Aug.	June - July	Sept. 2011 ^P	Aug. 2011 ^r	July 2011	Sept. 2010	
All manufacturing industries ²	886,263	878,731	871,117	0.9	0.9	0.9	878,906	874,132	869,705	816,656	7.6
Excluding transportation ²	373,852	370,424	369,564	0.9	0.2	1.0	371,025	368,919	370,895	331,149	12.0
Excluding defense ²	714,121	707,905	700,886	0.9	1.0	1.0	709,265	705,287	700,126	654,538	8.4
Durable goods industries ²	886,263	878,731	871,117	0.9	0.9	0.9	878,906	874,132	869,705	816,656	7.6
Primary metals.....	32,426	31,815	31,600	1.9	0.7	0.3	31,534	31,803	31,837	28,876	9.2
Iron and steel mills.....	18,073	17,530	17,567	3.1	-0.2	-0.4	17,502	17,669	17,844	17,515	-0.1
Aluminum and nonferrous metals.....	10,859	10,803	10,659	0.5	1.4	1.1	10,614	10,672	10,631	8,627	23.0
Ferrous metal foundries.....	3,494	3,482	3,374	0.3	3.2	1.2	3,418	3,462	3,362	2,734	25.0
Fabricated metal products.....	65,236	64,800	64,378	0.7	0.7	1.3	64,945	64,930	65,039	60,875	6.7
Machinery.....	117,065	115,509	114,963	1.3	0.5	2.6	116,172	115,385	115,234	88,529	31.2
Construction machinery.....	10,052	9,772	10,274	2.9	-4.9	4.8	9,806	9,514	10,197	6,961	40.9
Mining, oil field, and gas field machinery.....	13,165	12,875	13,145	2.3	-2.1	7.4	13,056	13,016	13,157	8,660	50.8
Industrial machinery.....	14,734	14,964	14,889	-1.5	0.5	-2.9	14,268	14,828	15,039	12,276	16.2
Photographic equipment.....	2,014	2,005	2,003	0.4	0.1	0.8	2,066	2,002	2,018	2,173	-4.9
Ventilation, heating, air-conditioning, and refrigeration equipment.....	19,789	20,512	20,945	-3.5	-2.1	1.6	19,792	20,876	21,275	16,389	20.8
Metalworking machinery.....	5,528	5,467	5,418	1.1	0.9	2.3	5,474	5,431	5,399	3,986	37.3
Turbines, generators, and other power transmission equipment.....	21,691	19,907	19,060	9.0	4.4	6.3	21,566	19,822	19,076	12,562	71.7
Material handling equipment.....	8,674	8,537	8,324	1.6	2.6	1.2	8,715	8,358	8,246	7,345	18.7
Computers and electronic products ²	124,161	123,755	123,961	0.3	-0.2	-0.3	123,792	122,269	123,329	122,566	1.0
Computers.....	3,531	3,298	3,319	7.1	-0.6	-8.9	3,531	3,298	3,319	3,583	-1.5
Nondefense communications equipment.....	22,227	22,228	22,369	0.0	-0.6	-1.3	22,364	22,053	21,993	23,113	-3.2
Defense communications equipment.....	5,827	6,001	6,000	-2.9	0.0	0.1	5,776	5,845	5,953	6,368	-9.3
Electronic components.....	11,585	11,503	11,546	0.7	-0.4	0.3	11,661	11,625	11,568	11,466	1.7
Nondefense search and navigation equipment.....	9,039	8,831	8,793	2.4	0.4	-0.7	9,025	8,790	8,830	8,735	3.3
Defense search and navigation equipment.....	44,032	44,016	44,026	0.0	0.0	0.1	43,550	43,351	43,803	43,078	1.1
Electromedical, measuring, and control instruments.....	27,920	27,878	27,908	0.2	-0.1	0.8	27,885	27,307	27,863	26,223	6.3
Electrical equipment, appliances, and components.....	26,782	26,285	26,040	1.9	0.9	0.9	26,518	26,355	26,465	22,406	18.4
Electric lighting equipment.....	1,071	1,056	1,086	1.4	-2.8	0.0	1,110	1,104	1,139	1,124	-1.2
Household appliances.....	801	823	805	-2.7	2.2	-3.8	766	781	799	598	28.1
Electrical equipment.....	14,634	14,621	14,673	0.1	-0.4	1.2	14,510	14,765	14,945	12,379	17.2
Transportation equipment.....	512,411	508,307	501,553	0.8	1.3	0.8	507,881	505,213	498,810	485,507	4.6
Motor vehicle bodies, parts, and trailers.....	14,005	13,886	13,725	0.9	1.2	1.0	13,487	13,351	13,547	12,678	6.4
Nondefense aircraft and parts.....	356,035	353,660	347,650	0.7	1.7	1.0	354,083	352,335	345,524	333,067	6.3
Defense aircraft and parts.....	55,216	55,660	54,627	-0.8	1.9	0.5	54,207	55,007	54,470	51,251	5.8
Ships and boats.....	19,337	18,501	19,006	4.5	-2.7	-1.9	18,546	18,195	19,086	17,806	4.2
Furniture and related products.....	6,711	6,784	7,091	-1.1	-4.3	0.2	6,593	6,701	7,460	6,366	3.6

^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.

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

[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				Percent Change Sept. 11/10
	Monthly			Percent Change			Monthly				
	Sept. 2011 ^P	Aug. 2011 ^r	July 2011	Aug. - Sept.	July - Aug.	June - July	Sept. 2011 ^P	Aug. 2011 ^r	July 2011	Sept. 2010	
All manufacturing industries.....	601,345	600,709	598,758	0.1	0.3	0.6	600,443	606,466	604,143	537,547	11.7
Excluding transportation.....	488,500	488,340	487,894	0.0	0.1	0.4	488,157	493,046	492,168	441,848	10.5
Excluding defense.....	575,723	574,671	572,812	0.2	0.3	0.6	574,912	580,496	578,183	513,027	12.1
With unfilled orders.....	299,851	299,976	297,399	0.0	0.9	1.1	298,533	302,809	300,003	264,234	13.0
Durable goods industries.....	365,646	365,291	362,100	0.1	0.9	1.1	363,973	368,589	364,914	324,314	12.2
Wood products.....	8,433	8,503	8,452	-0.8	0.6	-0.2	8,516	8,505	8,333	8,540	-0.3
Nonmetallic mineral products.....	11,039	10,947	10,844	0.8	0.9	0.1	10,863	10,867	10,892	10,139	7.1
Primary metals.....	34,560	34,512	34,282	0.1	0.7	1.3	34,655	34,929	34,965	29,439	17.7
Iron and steel mills.....	21,625	21,535	21,298	0.4	1.1	1.9	21,759	21,864	21,903	17,964	21.1
Aluminum and nonferrous metals.....	10,895	10,954	10,981	-0.5	-0.2	-0.1	10,910	11,068	11,091	9,695	12.5
Ferrous metal foundries.....	2,040	2,023	2,003	0.8	1.0	1.5	1,986	1,997	1,971	1,780	11.6
Fabricated metal products.....	45,863	45,982	45,689	-0.3	0.6	0.9	45,722	46,228	46,195	41,193	11.0
Machinery.....	59,693	59,467	58,562	0.4	1.5	1.4	59,100	59,720	58,525	51,524	14.7
Farm machinery.....	3,419	3,463	3,337	-1.3	3.8	2.7	3,147	3,314	3,230	2,491	26.3
Construction machinery.....	5,738	5,764	5,498	-0.5	4.8	1.3	5,724	5,706	5,420	4,513	26.8
Mining, oil field, and gas field machinery.....	7,372	7,278	7,185	1.3	1.3	1.9	7,345	7,401	7,335	6,190	18.7
Industrial machinery.....	6,972	6,806	6,683	2.4	1.8	1.8	7,040	6,854	6,631	6,310	11.6
Photographic equipment.....	1,630	1,610	1,582	1.2	1.8	2.8	1,620	1,635	1,634	1,460	11.0
Ventilation, heating, air-conditioning, and refrigeration equipment.....	4,108	4,185	4,242	-1.8	-1.3	-0.2	3,998	4,248	4,298	3,920	2.0
Metalworking machinery.....	5,008	4,869	4,721	2.9	3.1	1.2	5,122	4,946	4,807	4,153	23.3
Turbines, generators, and other power transmission equipment.....	7,400	7,501	7,466	-1.3	0.5	2.0	7,318	7,706	7,461	6,033	21.3
Material handling equipment.....	3,708	3,678	3,635	0.8	1.2	2.8	3,671	3,685	3,638	3,213	14.3
Computers and electronic products ²	48,085	48,447	48,568	-0.7	-0.2	0.6	47,695	49,317	48,807	45,009	6.0
Computers.....	3,108	3,131	3,248	-0.7	-3.6	8.1	3,233	3,335	3,201	2,937	10.1
Computer storage devices.....	1,403	1,381	1,381	1.6	0.0	1.6	1,364	1,435	1,410	1,252	8.9
Other peripheral equipment.....	1,483	1,458	1,432	1.7	1.8	0.7	1,443	1,527	1,480	1,368	5.5
Nondefense communications equipment.....	7,265	7,292	7,220	-0.4	1.0	-0.8	7,086	7,347	7,159	6,617	7.1
Defense communications equipment.....	2,471	2,747	2,703	-10.0	1.6	1.5	2,471	2,747	2,703	2,480	-0.4
Audio and video equipment.....	521	535	528	-2.6	1.3	-1.1	587	584	539	573	2.4
Electronic components.....	7,187	7,128	7,168	0.8	-0.6	-0.1	7,082	7,115	7,280	6,773	4.6
Nondefense search and navigation equipment.....	3,221	3,262	3,201	-1.3	1.9	0.4	3,271	3,312	3,219	3,162	3.4
Defense search and navigation equipment.....	2,657	2,694	2,773	-1.4	-2.8	-0.5	2,610	2,721	2,814	2,757	-5.3
Electromedical, measuring and control instruments.....	12,878	12,887	12,945	-0.1	-0.4	0.1	12,683	13,145	12,958	11,615	9.2
Electrical equipment, appliances, and components.....	15,492	15,570	15,529	-0.5	0.3	0.1	15,400	15,825	15,742	14,778	4.2
Electric lighting equipment.....	1,781	1,766	1,760	0.8	0.3	0.9	1,765	1,809	1,795	1,685	4.7
Household appliances.....	2,226	2,214	2,199	0.5	0.7	-1.0	2,283	2,307	2,285	2,220	2.8
Electrical equipment.....	4,775	4,946	5,013	-3.5	-1.3	-0.4	4,648	4,963	5,023	4,802	-3.2
Batteries.....	1,028	1,019	1,002	0.9	1.7	-2.0	1,050	1,063	1,039	1,062	-1.1
Transportation equipment.....	112,845	112,369	110,864	0.4	1.4	1.6	112,286	113,420	111,975	95,699	17.3
Automobiles.....	3,337	3,183	3,107	4.8	2.4	8.3	3,257	3,227	3,225	2,431	34.0
Light trucks and utility vehicles.....	3,249	3,155	3,093	3.0	2.0	6.2	3,391	3,352	3,107	2,582	31.3
Heavy duty trucks.....	1,479	1,458	1,476	1.4	-1.2	-0.8	1,462	1,486	1,520	1,411	3.6
Motor vehicle bodies, parts, and trailers.....	18,146	17,978	17,809	0.9	0.9	0.4	18,081	17,961	17,891	16,429	10.1
Nondefense aircraft and parts.....	61,381	61,412	60,313	-0.1	1.8	1.9	60,884	62,091	61,114	48,485	25.6
Defense aircraft and parts.....	14,593	14,414	14,368	1.2	0.3	0.7	14,661	14,475	14,458	13,807	6.2
Ships and boats.....	3,386	3,434	3,349	-1.4	2.5	-0.2	3,329	3,362	3,268	2,998	11.0
Furniture and related products.....	6,790	6,847	6,829	-0.8	0.3	0.7	6,766	6,920	6,941	6,553	3.3
Miscellaneous durable goods.....	22,846	22,647	22,481	0.9	0.7	0.5	22,970	22,858	22,539	21,440	7.1
Nondurable goods industries.....	235,699	235,418	236,658	0.1	-0.5	-0.1	236,470	237,877	239,229	213,233	10.9
Food products.....	44,607	45,059	45,007	-1.0	0.1	0.4	45,332	45,324	44,405	43,057	5.3
Grain and oilseed milling.....	5,068	5,361	5,443	-5.5	-1.5	-0.9	4,905	5,232	5,371	5,178	-5.3
Dairy products.....	6,090	6,099	6,016	-0.1	1.4	2.2	6,138	6,297	6,271	5,547	10.7
Meat, poultry, and seafood products.....	8,421	8,513	8,551	-1.1	-0.4	-0.3	8,522	8,522	8,438	8,433	1.1
Beverage and tobacco products.....	16,542	16,474	16,499	0.4	-0.2	0.5	16,488	15,914	15,964	15,989	3.1
Beverages.....	13,143	13,028	13,022	0.9	0.0	0.4	13,182	12,664	12,689	12,533	5.2
Tobacco.....	3,399	3,446	3,477	-1.4	-0.9	0.7	3,306	3,250	3,275	3,456	-4.3
Textile mills.....	3,687	3,656	3,631	0.8	0.7	1.2	3,662	3,635	3,641	3,111	17.7
Textile products.....	3,052	3,058	3,030	-0.2	0.9	1.0	3,071	3,089	3,057	2,795	9.9
Apparel.....	2,590	2,569	2,521	0.8	1.9	2.4	2,743	2,712	2,653	2,341	17.2
Leather and allied products.....	904	903	897	0.1	0.7	0.7	911	925	916	782	16.5
Paper products.....	14,041	14,018	13,991	0.2	0.2	0.3	14,015	14,013	13,940	13,785	1.7
Pulp, paper, and paperboard mills.....	6,034	6,003	5,987	0.5	0.3	0.7	5,999	5,977	5,949	5,733	4.6
Paperboard containers.....	4,028	4,030	4,004	0.0	0.6	-0.2	4,003	4,021	3,985	4,056	-1.3
Printing.....	5,454	5,512	5,552	-1.1	-0.7	0.4	5,537	5,609	5,620	5,420	2.2
Petroleum and coal products.....	50,173	49,752	51,383	0.8	-3.2	-2.0	50,585	51,793	54,083	39,750	27.3
Petroleum refineries.....	46,587	46,288	47,990	0.6	-3.5	-2.3	46,971	48,182	50,547	36,768	27.7
Chemical products.....	73,734	73,458	73,262	0.4	0.3	0.4	73,225	73,871	73,972	66,792	9.6
Pesticides, fertilizers, and other agricultural chemicals.....	4,096	3,890	3,726	5.3	4.4	1.6	3,608	3,466	3,486	2,978	21.2
Pharmaceuticals and medicines.....	24,902	24,977	25,199	-0.3	-0.9	-1.0	24,850	25,349	25,548	24,505	1.4
Paints, coatings, and adhesives.....	3,058	3,086	3,092	-0.9	-0.2	-0.5	3,001	3,103	3,132	2,930	2.4
Plastics and rubber products.....	20,915	20,959	20,885	-0.2	0.4	0.2	20,901	20,992	20,978	19,411	7.7

^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.

² Estimates of inventories for the semiconductor industry data are included in computers and electronic products and all other applicable aggregates totals, but are not shown separately.

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 dollars and are based on data from the Manufacturers' Shipments, Inventories, and Orders Survey.]

Industry	Seasonally Adjusted						Not Seasonally Adjusted						Percent Change ⁶ 2011/2010
	Monthly			Percent Change			Monthly			Year to date			
	Sept. 2011 ^p	Aug. 2011 ^f	July 2011	Aug. - Sept.	July - Aug.	June - July	Sept. 2011 ^p	Aug. 2011 ^f	July 2011	Sept. 2010	2011 ^p	2010	
SHIPMENTS													
All manufacturing industries.....	452,716	451,411	451,182	0.3	0.1	1.2	466,116	472,254	437,119	420,466	4,008,352	3,586,264	11.8
Construction materials and supplies.....	37,072	37,475	37,192	-1.1	0.8	0.1	40,107	41,875	38,207	37,804	336,603	324,897	3.6
Information technology.....	24,546	24,548	24,445	0.0	0.4	-1.1	27,547	23,953	22,433	27,869	217,115	213,694	1.6
Computers and related products.....	5,827	5,794	5,822	0.6	-0.5	1.4	6,620	5,359	6,049	6,401	50,180	45,248	10.9
Motor vehicle and parts.....	28,174	28,870	31,764	-2.4	-9.1	10.0	30,874	31,896	24,487	29,900	261,835	239,127	9.5
Capital goods.....	78,375	79,029	76,690	-0.8	3.0	0.7	83,892	78,925	70,850	79,355	677,163	642,450	5.4
Nondefense capital goods ³	70,757	71,470	69,370	-1.0	3.0	1.4	75,699	71,434	64,231	69,234	607,029	554,768	9.4
Excluding aircraft.....	66,083	66,689	64,677	-0.9	3.1	0.3	70,758	66,593	60,428	65,312	570,868	520,317	9.7
Defense capital goods ⁴	7,618	7,559	7,320	0.8	3.3	-5.4	8,193	7,491	6,619	10,121	70,134	87,682	-20.0
Consumer goods.....	198,139	195,501	197,692	1.3	-1.1	1.3	200,110	205,002	194,492	173,771	1,751,980	1,503,882	16.5
Consumer durable goods.....	24,921	25,271	27,300	-1.4	-7.4	6.5	26,814	26,875	21,879	26,069	229,100	211,322	8.4
Consumer nondurable goods.....	173,218	170,230	170,392	1.8	-0.1	0.5	173,296	178,127	172,613	147,702	1,522,880	1,292,560	17.8
NEW ORDERS													
All manufacturing industries ⁵	453,541	452,121	451,885	0.3	0.1	2.1	465,343	469,793	433,515	423,825	3,999,637	3,551,484	12.6
Construction materials and supplies.....	36,387	37,041	37,690	-1.8	-1.7	0.7	38,837	41,066	38,462	38,329	341,067	328,873	3.7
Information technology.....	25,370	24,696	24,165	2.7	2.2	-4.2	29,525	22,943	21,457	30,582	218,631	216,597	0.9
Computers and related products.....	6,060	5,773	5,498	5.0	5.0	-6.4	6,853	5,338	5,725	6,493	50,057	45,287	10.5
Motor vehicle and parts.....	28,293	29,031	31,906	-2.5	-9.0	10.2	31,010	31,700	24,651	29,979	261,526	237,905	9.9
Capital goods.....	85,476	86,199	82,333	-0.8	4.7	3.1	89,986	84,434	73,343	87,810	719,802	653,176	10.2
Nondefense capital goods ³	76,723	78,159	74,125	-1.8	5.4	4.2	81,233	77,396	68,011	77,390	643,492	568,132	13.3
Excluding aircraft.....	69,469	67,495	66,897	2.9	0.9	-0.3	74,185	65,788	62,536	67,985	592,434	531,663	11.4
Defense capital goods ⁴	8,753	8,040	8,208	8.9	-2.0	-6.0	8,753	7,038	5,332	10,420	76,310	85,044	-10.3
Consumer goods.....	198,089	195,290	197,683	1.4	-1.2	1.3	200,034	204,643	194,652	173,772	1,751,734	1,504,280	16.4
Consumer durable goods.....	24,871	25,060	27,291	-0.8	-8.2	6.7	26,738	26,516	22,039	26,070	228,854	211,720	8.1
Consumer nondurable goods.....	173,218	170,230	170,392	1.8	-0.1	0.5	173,296	178,127	172,613	147,702	1,522,880	1,292,560	17.8
UNFILLED ORDERS													
All manufacturing industries ⁵	886,263	878,731	871,117	0.9	0.9	0.9	878,906	874,132	869,705	816,656	(X)	(X)	7.6
Construction materials and supplies.....	57,184	57,869	58,303	-1.2	-0.7	0.9	56,896	58,166	58,975	52,848	(X)	(X)	7.7
Information technology.....	124,866	124,042	123,894	0.7	0.1	-0.2	124,329	122,351	123,361	121,578	(X)	(X)	2.3
Computers and related products.....	3,531	3,298	3,319	7.1	-0.6	-8.9	3,531	3,298	3,319	3,583	(X)	(X)	-1.5
Motor vehicle and parts.....	14,005	13,886	13,725	0.9	1.2	1.0	13,487	13,351	13,547	12,678	(X)	(X)	6.4
Capital goods.....	675,830	668,729	661,559	1.1	1.1	0.9	670,851	664,757	659,248	620,927	(X)	(X)	8.0
Nondefense capital goods ³	522,880	516,914	510,225	1.2	1.3	0.9	520,003	514,469	508,507	476,204	(X)	(X)	9.2
Excluding aircraft.....	208,882	205,496	204,690	1.6	0.4	1.1	207,660	204,233	205,038	180,967	(X)	(X)	14.8
Defense capital goods ⁴	152,950	151,815	151,334	0.7	0.3	0.6	150,848	150,288	150,741	144,723	(X)	(X)	4.2
Consumer goods.....	4,511	4,561	4,772	-1.1	-4.4	-0.2	4,364	4,440	4,799	4,375	(X)	(X)	-0.3
Consumer durable goods.....	4,511	4,561	4,772	-1.1	-4.4	-0.2	4,364	4,440	4,799	4,375	(X)	(X)	-0.3
TOTAL INVENTORIES													
All manufacturing industries.....	601,345	600,709	598,758	0.1	0.3	0.6	600,443	606,466	604,143	537,547	(X)	(X)	11.7
Construction materials and supplies.....	57,335	57,287	57,027	0.1	0.5	0.4	57,252	57,671	57,469	53,641	(X)	(X)	6.7
Information technology.....	42,690	43,001	42,960	-0.7	0.1	0.9	42,411	43,864	43,114	39,597	(X)	(X)	7.1
Computers and related products.....	5,994	5,970	6,061	0.4	-1.5	4.8	6,040	6,297	6,091	5,557	(X)	(X)	8.7
Motor vehicle and parts.....	26,211	25,774	25,485	1.7	1.1	1.9	26,191	26,026	25,743	22,853	(X)	(X)	14.6
Capital goods.....	187,413	187,564	185,440	-0.1	1.1	1.2	185,977	189,343	186,408	162,340	(X)	(X)	14.6
Nondefense capital goods ³	167,387	167,042	165,025	0.2	1.2	1.3	166,110	168,950	166,069	142,978	(X)	(X)	16.2
Excluding aircraft.....	114,623	114,294	113,218	0.3	1.0	1.0	113,791	115,654	113,515	102,308	(X)	(X)	11.2
Defense capital goods ⁴	20,026	20,522	20,415	-2.4	0.5	0.5	19,867	20,393	20,339	19,362	(X)	(X)	2.6
Consumer goods.....	178,249	178,012	179,531	0.1	-0.8	-0.3	179,634	180,700	181,636	162,493	(X)	(X)	10.5
Consumer durable goods.....	27,532	27,221	26,944	1.1	1.0	1.6	27,726	27,689	27,104	25,264	(X)	(X)	9.7
Consumer nondurable goods.....	150,717	150,791	152,587	0.0	-1.2	-0.6	151,908	153,011	154,532	137,229	(X)	(X)	10.7

X Not Applicable ^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.

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; 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.

⁴ 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.

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.

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 Group¹

[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					Percent Change Sept. 11/10
	Monthly			Percent Change			Monthly					
	Sept. 2011 ^P	Aug. 2011 ^r	July 2011	Aug. - Sept.	July - Aug.	June - July	Sept. 2011 ^P	Aug. 2011 ^r	July 2011	Sept. 2010		
MATERIALS AND SUPPLIES												
All manufacturing industries.....	196,411	196,938	195,469	-0.3	0.8	0.3	196,193	198,107	197,181	177,999	10.2	
Durable goods industries.....	116,885	116,558	115,723	0.3	0.7	0.6	116,877	117,214	116,657	106,723	9.5	
Wood products.....	3,074	3,128	3,106	-1.7	0.7	-1.0	3,195	3,141	3,015	3,273	-2.4	
Nonmetallic mineral products.....	4,425	4,371	4,335	1.2	0.8	-0.4	4,422	4,381	4,343	3,983	11.0	
Primary metals.....	14,064	13,989	13,900	0.5	0.6	1.4	14,276	14,094	14,112	12,374	15.4	
Fabricated metal products.....	16,314	16,430	16,390	-0.7	0.2	0.5	16,385	16,546	16,518	14,741	11.2	
Machinery.....	22,514	22,183	21,890	1.5	1.3	1.0	22,420	22,323	22,068	19,097	17.4	
Computers and electronic products.....	18,102	18,419	18,429	-1.7	-0.1	1.8	18,043	18,577	18,438	16,540	9.1	
Electrical equipment, appliances, and components.....	6,537	6,548	6,557	-0.2	-0.1	0.4	6,455	6,649	6,667	6,252	3.2	
Transportation equipment.....	21,229	20,939	20,591	1.4	1.7	-0.5	21,057	20,887	20,904	20,623	2.1	
Furniture and related products.....	3,320	3,352	3,378	-1.0	-0.8	1.7	3,300	3,359	3,408	3,125	5.6	
Miscellaneous products.....	7,306	7,199	7,147	1.5	0.7	-0.1	7,324	7,257	7,184	6,715	9.1	
Nondurable goods industries.....	79,526	80,380	79,746	-1.1	0.8	-0.3	79,316	80,893	80,524	71,276	11.3	
Food products.....	14,474	15,011	14,786	-3.6	1.5	2.1	14,224	14,653	14,577	14,108	0.8	
Beverage and tobacco products.....	4,393	4,417	4,344	-0.5	1.7	0.2	4,256	4,203	4,148	4,233	0.5	
Textiles.....	1,326	1,297	1,303	2.2	-0.5	-1.6	1,321	1,302	1,326	1,137	16.2	
Textile products.....	1,426	1,415	1,400	0.8	1.1	0.4	1,449	1,432	1,430	1,273	13.8	
Apparel.....	917	894	866	2.6	3.2	2.2	933	908	887	663	40.7	
Leather and allied products.....	300	309	310	-2.9	-0.3	-1.0	309	316	314	286	8.0	
Paper products.....	6,704	6,721	6,660	-0.3	0.9	0.0	6,757	6,751	6,592	6,628	1.9	
Printing.....	2,617	2,650	2,678	-1.2	-1.0	-0.1	2,674	2,686	2,709	2,607	2.6	
Petroleum and coal products.....	15,302	15,631	15,659	-2.1	-0.2	-4.9	15,283	16,381	16,444	11,929	28.1	
Chemical products.....	23,244	23,284	23,037	-0.2	1.1	0.7	23,200	23,413	23,221	20,670	12.2	
Plastics and rubber products.....	8,823	8,751	8,703	0.8	0.6	1.1	8,910	8,848	8,876	7,742	15.1	
WORK IN PROCESS												
All manufacturing industries.....	186,861	186,897	187,275	0.0	-0.2	0.5	185,240	187,995	188,551	162,111	14.3	
Durable goods industries.....	141,751	142,336	141,416	-0.4	0.7	1.3	140,948	143,822	142,668	121,932	15.6	
Wood products.....	1,512	1,516	1,518	-0.3	-0.1	-0.7	1,515	1,513	1,505	1,478	2.5	
Nonmetallic mineral products.....	1,193	1,202	1,205	-0.7	-0.2	-0.2	1,179	1,192	1,217	1,162	1.5	
Primary metals.....	10,001	10,026	9,954	-0.2	0.7	1.6	9,994	10,339	10,320	8,461	18.1	
Fabricated metal products.....	12,717	12,795	12,639	-0.6	1.2	1.8	12,780	12,911	12,735	11,272	13.4	
Machinery.....	14,875	14,930	15,159	-0.4	-1.5	0.7	14,904	15,204	15,243	13,960	6.8	
Computers and electronic products.....	18,204	18,306	18,362	-0.6	-0.3	-0.1	17,909	18,637	18,543	17,334	3.3	
Electrical equipment, appliances, and components.....	3,765	3,759	3,680	0.2	2.1	0.6	3,700	3,852	3,737	3,268	13.2	
Transportation equipment.....	75,049	75,371	74,557	-0.4	1.1	1.8	74,531	75,701	74,985	60,694	22.8	
Furniture and related products.....	1,082	1,084	1,067	-0.2	1.6	0.7	1,075	1,086	1,077	986	9.0	
Miscellaneous products.....	3,353	3,347	3,275	0.2	2.2	-0.1	3,361	3,387	3,306	3,317	1.3	
Nondurable goods industries.....	45,110	44,561	45,859	1.2	-2.8	-1.8	44,292	44,173	45,883	40,179	10.2	
Food products.....	3,531	3,549	3,628	-0.5	-2.2	0.3	3,194	3,055	3,093	2,968	7.6	
Beverage and tobacco products.....	5,513	5,507	5,538	0.1	-0.6	0.3	5,348	4,980	5,056	5,173	3.4	
Textiles.....	835	838	836	-0.4	0.2	2.6	841	848	847	737	14.1	
Textile products.....	467	473	469	-1.3	0.9	3.5	469	475	465	434	8.1	
Apparel.....	353	380	368	-7.1	3.3	-0.3	365	402	390	373	-2.1	
Leather and allied products.....	101	100	95	1.0	5.3	4.4	100	98	93	76	31.6	
Paper products.....	1,273	1,261	1,288	1.0	-2.1	1.7	1,275	1,282	1,305	1,251	1.9	
Printing.....	1,215	1,247	1,243	-2.6	0.3	2.2	1,246	1,297	1,247	1,245	0.1	
Petroleum and coal products.....	15,491	14,875	15,834	4.1	-6.1	-3.4	15,258	15,288	16,661	11,526	32.4	
Chemical products.....	14,369	14,351	14,549	0.1	-1.4	-2.1	14,226	14,473	14,731	14,252	-0.2	
Plastics and rubber products.....	1,962	1,980	2,011	-0.9	-1.5	-3.7	1,970	1,975	1,995	2,144	-8.1	
FINISHED GOODS												
All manufacturing industries.....	218,073	216,874	216,014	0.6	0.4	1.0	219,010	220,364	218,411	197,437	10.9	
Durable goods industries.....	107,010	106,397	104,961	0.6	1.4	1.3	106,148	107,553	105,589	95,659	11.0	
Wood products.....	3,847	3,859	3,828	-0.3	0.8	0.7	3,806	3,851	3,813	3,789	0.4	
Nonmetallic mineral products.....	5,421	5,374	5,304	0.9	1.3	0.5	5,262	5,294	5,332	4,994	5.4	
Primary metals.....	10,495	10,497	10,428	0.0	0.7	0.9	10,385	10,496	10,533	8,604	20.7	
Fabricated metal products.....	16,832	16,757	16,660	0.4	0.6	0.7	16,557	16,771	16,942	15,180	9.1	
Machinery.....	22,304	22,354	21,513	-0.2	3.9	2.2	21,776	22,193	21,214	18,467	17.9	
Computers and electronic products.....	11,779	11,722	11,777	0.5	-0.5	0.0	11,743	12,103	11,826	11,135	5.5	
Electrical equipment, appliances, and components.....	5,190	5,263	5,292	-1.4	-0.5	-0.7	5,245	5,324	5,338	5,258	-0.2	
Transportation equipment.....	16,567	16,059	15,716	3.2	2.2	3.4	16,698	16,832	16,086	14,382	16.1	
Furniture and related products.....	2,388	2,411	2,384	-1.0	1.1	-0.8	2,391	2,475	2,456	2,442	-2.1	
Miscellaneous products.....	12,187	12,101	12,059	0.7	0.3	1.0	12,285	12,214	12,049	11,408	7.7	
Nondurable goods industries.....	111,063	110,477	111,053	0.5	-0.5	0.7	112,862	112,811	112,822	101,778	10.9	
Food products.....	26,602	26,499	26,593	0.4	-0.4	-0.5	27,914	27,616	26,735	25,981	7.4	
Beverage and tobacco products.....	6,636	6,550	6,617	1.3	-1.0	0.8	6,884	6,731	6,760	6,583	4.6	
Textiles.....	1,526	1,521	1,492	0.3	1.9	2.9	1,500	1,485	1,468	1,237	21.3	
Textile products.....	1,159	1,170	1,161	-0.9	0.8	0.8	1,153	1,182	1,162	1,088	6.0	
Apparel.....	1,320	1,295	1,287	1.9	0.6	3.4	1,445	1,402	1,376	1,305	10.7	
Leather and allied products.....	503	494	492	1.8	0.4	1.0	502	511	509	420	19.5	
Paper products.....	6,064	6,036	6,043	0.5	-0.1	0.5	5,983	5,980	6,043	5,906	1.3	
Printing.....	1,622	1,615	1,631	0.4	-1.0	0.0	1,617	1,626	1,664	1,568	3.1	
Petroleum and coal products.....	19,380	19,246	19,890	0.7	-3.2	1.6	20,044	20,124	20,978	16,295	23.0	
Chemical products.....	36,121	35,823	35,676	0.8	0.4	1.2	35,799	35,985	36,020	31,870	12.3	
Plastics and rubber products.....	10,130	10,228	10,171	-1.0	0.6	0.2	10,021	10,169	10,107	9,525	5.2	

^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 revisions.

Table 7. Ratios of Manufacturers' Inventories to Shipments and Unfilled Orders to Shipments, by Industry Group³

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

Industry	Inventory/Shipments ratio				Unfilled Orders/Shipments ratio ¹			
	Sep 2011 ^P	Aug 2011 ^f	Jul 2011	Jun 2011	Sep 2011 ^P	Aug 2011 ^f	Jul 2011	Jun 2011
All manufacturing industries ²	1.33	1.33	1.33	1.33	(X)	(X)	(X)	(X)
Durable goods industries ²	1.83	1.81	1.80	1.82	6.10	6.07	6.06	6.05
Wood products.....	1.60	1.61	1.58	1.61	(X)	(X)	(X)	(X)
Nonmetallic mineral products.....	1.40	1.39	1.38	1.38	(X)	(X)	(X)	(X)
Primary metals.....	1.41	1.43	1.41	1.41	1.32	1.31	1.30	1.32
Fabricated metal products.....	1.81	1.84	1.84	1.81	2.66	2.67	2.68	2.62
Machinery.....	1.92	1.89	1.97	1.96	4.19	4.25	4.40	4.24
Computers and electronic products ²	1.56	1.55	1.57	1.58	5.74	5.67	5.66	5.65
Electrical equipment, appliances, and components.....	1.51	1.51	1.57	1.53	2.85	2.79	2.86	2.78
Transportation equipment.....	2.46	2.39	2.25	2.37	16.26	15.77	15.39	16.00
Furniture and related products.....	1.23	1.23	1.26	1.23	1.40	1.40	1.51	1.48
Miscellaneous products.....	1.67	1.67	1.66	1.67	(X)	(X)	(X)	(X)
Nondurable goods industries.....	0.93	0.94	0.95	0.95	(X)	(X)	(X)	(X)
Food products.....	0.71	0.72	0.73	0.73	(X)	(X)	(X)	(X)
Beverage and tobacco products.....	1.33	1.34	1.37	1.30	(X)	(X)	(X)	(X)
Textiles.....	1.42	1.41	1.39	1.37	(X)	(X)	(X)	(X)
Textile products.....	1.63	1.66	1.66	1.62	(X)	(X)	(X)	(X)
Apparel.....	1.85	1.87	1.95	1.92	(X)	(X)	(X)	(X)
Leather and allied products.....	2.94	2.90	2.82	2.78	(X)	(X)	(X)	(X)
Paper products.....	0.99	0.98	0.97	0.97	(X)	(X)	(X)	(X)
Printing.....	0.78	0.78	0.81	0.79	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.70	0.72	0.73	0.76	(X)	(X)	(X)	(X)
Chemical products.....	1.19	1.18	1.18	1.17	(X)	(X)	(X)	(X)
Plastics and rubber products.....	1.28	1.29	1.29	1.29	(X)	(X)	(X)	(X)

X Not Applicable ^P Preliminary ^f Revised data due to late receipts and concurrent seasonal adjustment.

¹ 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.

² Unfilled orders to shipments ratio excludes semiconductor manufacturing.

Table 8. Revisions to Previously Published Monthly Percent Changes³

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

Industry	Shipments		New Orders		Unfilled Orders		Inventories	
	Sep ¹ 2011	Sep ² 2010- Aug 2011	Sep ¹ 2011	Sep ² 2010- Aug 2011	Sep ¹ 2011	Sep ² 2010- Aug 2011	Sep ¹ 2011	Sep ² 2010- Aug 2011
	All manufacturing industries.....	(X)	0.3	(X)	0.5	(X)	0.1	(X)
Durable goods industries.....	0.1	0.3	0.2	0.7	0.1	0.1	0.0	0.2
Wood products.....	(X)	0.8	(X)	(NA)	(X)	(NA)	(X)	0.5
Nonmetallic mineral products.....	(X)	0.3	(X)	(NA)	(X)	(NA)	(X)	0.2
Primary metals.....	-0.4	0.9	0.1	2.3	0.2	1.2	-0.4	0.6
Fabricated metal products.....	-0.1	0.3	-0.7	0.7	-0.2	0.2	-0.1	0.3
Machinery.....	0.3	0.9	0.1	2.0	0.0	0.5	0.3	0.2
Computers and electronic products.....	-0.3	0.5	0.8	1.0	0.3	0.2	0.1	0.2
Electrical equipment, appliances, and components.....	0.5	0.8	0.1	1.0	-0.1	0.3	-0.7	0.2
Transportation equipment.....	0.3	0.7	0.4	1.3	0.0	0.1	-0.1	0.2
Furniture and related products.....	(X)	0.5	(X)	1.2	(X)	0.7	(X)	0.3
Miscellaneous products.....	(X)	0.3	(X)	0.4	(X)	0.1	(X)	0.2
Nondurable goods industries.....	(X)	0.3	(X)	(NA)	(X)	(NA)	(X)	0.3
Food products.....	(X)	0.3	(X)	(NA)	(X)	(NA)	(X)	0.4
Beverage and tobacco products.....	(X)	0.6	(X)	(NA)	(X)	(NA)	(X)	0.2
Textiles.....	(X)	0.7	(X)	(NA)	(X)	(NA)	(X)	0.7
Textile products.....	(X)	0.5	(X)	(NA)	(X)	(NA)	(X)	0.5
Apparel.....	(X)	1.2	(X)	(NA)	(X)	(NA)	(X)	0.5
Leather and allied products.....	(X)	0.9	(X)	(NA)	(X)	(NA)	(X)	0.5
Paper products.....	(X)	0.2	(X)	(NA)	(X)	(NA)	(X)	0.3
Printing.....	(X)	0.5	(X)	(NA)	(X)	(NA)	(X)	0.7
Petroleum and coal products.....	(X)	1.0	(X)	(NA)	(X)	(NA)	(X)	1.1
Chemical products.....	(X)	0.5	(X)	(NA)	(X)	(NA)	(X)	0.2
Plastics and rubber products.....	(X)	0.6	(X)	(NA)	(X)	(NA)	(X)	0.6

X Not Applicable

NA Not Available

¹ The current month revisions are the difference between the advance percent change and the percent change as shown in this publication.

² 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.

³ 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.

Survey Description

This report is compiled from results of the U.S. Census Bureau's Manufacturers' Shipments, Inventories, and Orders (M3) survey. This survey provides statistics on 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). The M3 includes approximately 4,300 reporting units. Units may be divisions of diversified large companies, large homogenous companies, or single-unit manufacturers in 89 industry categories. Due to the small monthly sample, these 89 categories have been combined into 65 publication levels. The survey methodology assumes that the month-to-month changes of the total operations of those companies in the monthly survey effectively represent the month-to-month movements of all establishments that make up the category. The current coverage levels in the survey show that reported data in the monthly survey represent approximately 60 percent of the shipments estimates at the total manufacturing level. Data published represent manufacturing in a calendar month. The data collection is based on a voluntary survey authorized by Title 13 of the United States Code.

The data presented in this release are based on data obtained from a panel of 4,300 reporting units and provide an indication of the activity within the manufacturing sector. The results differ from what would be obtained from a complete enumeration of all manufacturing companies. In addition, a different panel of 4,300 companies would yield different results. The M3 panel is comprised of companies with \$500 million or more in shipments and a limited number of smaller companies. From a statistical perspective, the panel is not 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>.