

Table 1. Value of Manufacturers' Shipments for Industry Groups¹
January 2023 - March 2023

[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		
	Mar. 2023	Feb. 2023	Jan. 2023	Feb. - Mar.	Jan. - Feb.	Dec. - Jan.	Mar. 2023	Feb. 2023	Jan. 2023	Mar. 2022	2023	2022	Percent change 2023/2022
All manufacturing industries ²	574,998	578,124	581,720	-0.5	-0.6	0.7	612,862	535,019	540,816	607,719	1,688,697	1,627,643	3.8
Excluding transportation ²	486,124	491,328	494,157	-1.1	-0.6	1.1	510,172	452,928	463,539	517,051	1,426,639	1,394,639	2.3
Excluding defense ²	559,965	562,951	566,355	-0.5	-0.6	0.7	596,143	520,451	528,057	592,053	1,644,651	1,586,550	3.7
With unfilled orders	194,334	192,131	192,528	1.1	-0.2	0.1	213,121	179,930	174,986	201,666	568,307	539,196	5.3
Durable goods industries ²	279,706	277,684	279,043	0.7	-0.5	0.1	306,448	259,423	253,017	291,764	818,888	775,754	5.6
Wood products	13,468	13,417	13,484	0.4	-0.5	0.4	13,812	12,244	11,612	14,188	37,668	38,526	-2.2
Nonmetallic mineral products	13,080	13,222	13,369	-1.1	-1.1	1.2	13,318	11,516	11,781	13,091	36,615	35,216	4.0
Primary metals	26,976	26,787	26,877	0.7	-0.3	1.8	29,241	25,799	26,333	29,703	81,373	80,770	0.7
Iron and steel mills	15,102	14,847	14,715	1.7	0.9	-0.2	16,278	14,128	14,445	15,442	44,851	43,005	4.3
Aluminum and nonferrous metals	10,159	10,205	10,455	-0.5	-2.4	3.8	11,056	10,027	10,279	12,518	31,362	33,222	-5.6
Ferrous metal foundries	1,715	1,735	1,707	-1.2	1.6	7.2	1,907	1,644	1,609	1,743	5,160	4,543	13.6
Fabricated metal products	35,380	35,329	35,288	0.1	0.1	-0.2	37,390	33,132	33,071	37,543	103,593	103,760	-0.2
Machinery	37,090	37,410	37,375	-0.9	0.1	0.8	41,180	35,446	33,761	40,316	110,387	105,976	4.2
Farm machinery	2,371	2,374	2,483	-0.1	-4.4	-4.6	2,789	2,516	2,240	3,885	7,545	10,289	-26.7
Construction machinery	4,225	4,107	4,260	2.9	-3.6	4.7	4,774	3,968	3,816	3,877	12,558	10,003	25.5
Mining, oil field, and gas field machinery	1,635	1,904	1,591	-14.1	19.7	0.4	1,745	1,774	1,502	1,551	5,021	4,094	22.6
Industrial machinery	3,702	3,834	3,834	-3.4	0.0	6.4	4,113	3,261	3,264	4,288	10,638	10,768	-1.2
Photographic equipment	623	611	622	2.0	-1.8	-2.7	730	550	523	737	1,803	1,812	-0.5
Ventilation, heating, air-conditioning, and refrigeration equipment	4,676	4,734	4,788	-1.2	-1.1	1.9	5,126	4,039	3,908	4,856	13,073	12,224	6.9
Metalworking machinery	2,717	2,861	2,778	-5.0	3.0	-1.8	2,967	2,651	2,537	3,052	8,155	8,210	-0.7
Turbines, generators, and other power transmission equipment	4,051	3,837	3,740	5.6	2.6	-2.0	4,131	3,858	3,567	3,612	11,556	10,561	9.4
Material handling equipment	3,795	3,760	3,843	0.9	-2.2	2.2	4,365	3,666	3,612	4,181	11,643	10,829	7.5
Computers and electronic products ²	29,342	29,423	29,430	-0.3	0.0	0.5	30,888	26,514	26,893	29,997	84,295	81,122	3.9
Computers	799	805	798	-0.7	0.9	5.1	760	636	697	692	2,093	1,928	8.6
Computer storage devices	370	358	372	3.4	-3.8	6.0	481	273	324	431	1,078	990	8.9
Other peripheral equipment	796	765	775	4.1	-1.3	2.0	858	602	718	600	2,178	1,477	47.5
Nondefense communications equipment	2,919	2,951	2,931	-1.1	0.7	0.6	3,426	2,404	2,325	3,284	8,155	7,900	3.2
Defense communications equipment	203	205	208	-1.0	-1.4	2.0	209	202	169	203	580	554	4.7
Audio and video equipment	377	368	467	2.4	-21.2	33.0	325	324	402	428	1,051	1,287	-18.3
Electronic components	4,766	4,861	4,760	-2.0	2.1	0.9	5,113	4,492	4,373	5,025	13,978	13,362	4.6
Nondefense search and navigation equipment	1,615	1,621	1,604	-0.4	1.1	-1.0	1,825	1,529	1,436	1,834	4,790	4,733	1.2
Defense search and navigation equipment	3,188	3,207	3,194	-0.6	0.4	-1.2	3,416	3,054	2,676	3,361	9,146	9,032	1.3
Electromedical, measuring, and control instruments	8,811	8,736	8,711	0.9	0.3	-0.4	9,742	7,801	7,569	9,473	25,112	24,739	1.5
Electrical equipment, appliances, and components	14,126	13,946	14,116	1.3	-1.2	4.0	15,487	12,765	12,359	14,243	40,611	36,748	10.5
Electric lighting equipment	1,283	1,269	1,258	1.1	0.9	1.0	1,350	1,151	1,141	1,258	3,642	3,422	6.4
Household appliances	2,346	2,361	2,437	-0.6	-3.1	3.4	2,621	2,081	1,980	2,690	6,682	6,594	1.3
Electrical equipment	4,592	4,505	4,650	1.9	-3.1	6.6	5,267	4,178	4,037	4,474	13,482	11,307	19.2
Batteries	1,370	1,306	1,247	4.9	4.7	5.1	1,437	1,160	1,091	1,079	3,688	2,705	36.3
Transportation equipment	88,874	86,796	87,563	2.4	-0.9	-1.4	102,690	82,091	77,277	90,668	262,058	233,004	12.5
Automobiles	8,763	8,681	8,309	0.9	4.5	-0.3	10,827	8,183	6,987	9,997	25,997	23,136	12.4
Light trucks and utility vehicles	20,583	20,594	21,310	-0.1	-3.4	-0.3	24,355	19,335	18,829	22,347	62,519	55,339	13.0
Heavy duty trucks	2,652	2,824	2,958	-6.1	-4.5	3.3	3,051	2,681	2,692	2,635	8,424	6,779	24.3
Motor vehicle bodies, parts, and trailers	29,049	29,028	28,866	0.1	0.6	0.8	32,258	28,689	27,375	30,573	88,322	82,920	6.5
Nondefense aircraft and parts	12,570	10,205	10,392	23.2	-1.8	-11.8	15,275	8,282	8,362	9,576	31,919	23,779	34.2
Defense aircraft and parts	4,652	4,681	4,864	-0.6	-3.8	0.9	5,176	4,266	3,982	5,080	13,424	12,836	4.6
Ships and boats	3,832	3,852	3,855	-0.5	-0.1	2.5	4,203	3,921	3,192	3,780	11,316	10,034	12.8
Furniture and related products	6,905	6,896	6,993	0.1	-1.4	0.6	7,016	6,590	6,462	6,891	20,068	19,489	3.0
Miscellaneous durable goods	14,465	14,458	14,548	0.0	-0.6	-0.4	15,426	13,326	13,468	15,124	42,220	41,143	2.6
Nonendurable goods industries	295,292	300,440	302,677	-1.7	-0.7	1.2	306,414	275,596	287,799	315,955	869,809	851,889	2.1
Food products	80,326	80,257	79,999	0.1	0.3	0.3	81,725	77,142	77,185	81,330	236,052	231,775	1.8
Grain and oilseed milling	10,146	10,212	10,180	-0.6	0.3	0.6	10,384	9,833	10,090	10,333	30,307	28,912	4.8
Dairy products	11,803	11,819	11,875	-0.1	-0.5	0.1	11,945	11,023	11,651	11,722	34,619	33,456	3.5
Meat, poultry, and seafood products	24,252	24,152	24,230	0.4	-0.3	-0.6	24,599	23,169	22,851	25,452	70,619	71,938	-1.8
Beverage and tobacco products	17,195	16,757	16,752	2.6	0.0	-1.2	17,116	15,574	15,704	15,207	48,394	42,135	14.9
Beverages	10,687	10,833	10,725	-1.3	1.0	1.4	10,608	9,650	9,677	9,887	29,935	27,642	8.3
Tobacco	6,508	5,924	6,027	9.9	-1.7	-5.5	6,508	5,924	6,027	5,320	18,459	14,493	27.4
Textile mills	2,117	2,149	2,165	-1.5	-0.7	-0.6	2,209	2,098	2,008	2,381	6,315	6,709	-5.9
Textile products	2,014	2,043	2,042	-1.4	0.0	0.0	2,079	1,998	1,851	2,154	5,928	6,050	-2.0
Apparel	837	858	871	-2.4	-1.5	-1.1	797	805	835	803	2,437	2,329	4.6
Leather and allied products	498	505	527	-1.4	-4.2	1.7	503	469	483	449	1,455	1,173	24.0
Paper products	17,596	17,541	17,515	0.3	0.1	1.3	18,291	16,510	17,259	18,040	52,060	50,950	2.7
Pulp, paper, and paperboard mills	7,048	7,038	7,048	0.1	-0.1	2.4	7,218	6,564	6,914	7,048	20,848	19,729	5.2
Paperboard containers	6,349	6,313	6,265	0.6	0.8	0.7	6,693	5,882	6,164	6,748	18,739	18,791	-0.3
Printing	7,346	7,410	7,380	-0.9	0.4	-0.1	7,566	6,777	7,047	7,370	21,390	20,201	5.9
Petroleum and coal products	64,762	70,223	73,138	-7.8	-4.0	4.1	65,454	58,993	68,043	78,319	192,490	193,767	-0.7
Petroleum refineries	59,981	65,428	68,330	-8.3	-4.2	4.5	60,984	55,160	64,159	74,109	180,303	182,533	-1.2
Chemical products	77,952	77,919	77,415	0.0	0.7	0.8	84,483	72,339	73,771	83,161	230,593	223,895	3.0
Pesticides, fertilizers, and other agricultural chemicals	4,001	3,929	3,983	1.8	-1.4	-2.2	5,407	4,128	3,805	5,485	13,340	13,631	-2.1
Pharmaceuticals and medicines	24,623	24,645	24,355	-0.1	1.2	-0.1	25,727	22,217	23,226	23,480	71,170	63,920	11.3
Paints, coatings, and adhesives	4,130	4,227	4,180	-2.3	1.1	-1.1	4,531	3,807	3,738	4,652	12,076	12,057	0.2
Plastics and rubber products	24,649	24,778	24,873	-0.5	-0.4	-0.1	26,191	22,891	23,613	26,741	72,695	72,905	-0.3

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

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 <https://www.census.gov/manufacturing/m3/>.

Source: U.S. Census Bureau, Manufacturers' Shipments, Inventories, and Orders (M3) Survey, Benchmark Report, May 12, 2023. Information on data sources and methodology can be found on our website at <www.census.gov/manufacturing/m3/how_the_data_are_collected/index.html>.

The Census Bureau has reviewed this data product to ensure appropriate access, use, and disclosure avoidance protection of the confidential source data (Project No. P-6000307, Disclosure Review Board (DRB) approval number: CBDRB-FY23-0294).