

Manufacturers' Shipments, Inventories, and Orders (M3)
 Percent Origination of NAICS Categories from SIC Categories
 1997

M3 NAICS Category		M3 SIC Category		Percent Origination of M3 NAICS Category
11A	Grain and Oilseed Milling	20C	Fats and Oils	43.1
		20D	Beverages	1.5
		20E	Food and Kindred Products, Except Meat and Dairy Products, Beverages, Fats, and Oils	52.1
		INC		3.3
11B	Dairy Product Manufacturing	20B	Dairy Products	100.0
11C	Meat, Poultry, and Seafood Product Processing	20A	Meat Products	92.0
		20C	Fats and Oils	2.3
		20E	Food and Kindred Products, Except Meat and Dairy Products, Beverages, Fats, and Oils	5.7
11D	Other Food Manufacturing	20A	Meat Products	0.7
		20D	Beverages	4.2
		20E	Food and Kindred Products, Except Meat and Dairy Products, Beverages, Fats, and Oils	93.6
		28A	Chemical Products, Except Paints, Drugs, Soaps, Toiletries, and Agricultural Chemicals	0.3
		INC		1.2
12A	Beverage Manufacturing	20D	Beverages	99.3
		20E	Food and Kindred Products, Except Meat and Dairy Products, Beverages, Fats, and Oils	0.7
12B	Tobacco Manufacturing	21A	Cigarettes, Cigars, and Chewing and Smoking Tobacco, and Snuff	100.0
13A	Textile Mills	22A	Broadwoven Fabrics and Textiles, Except Those from Knitting and Floor Covering Mills	73.6
		22B	Knitting Mills	22.8
		23A	Apparel and Other Finished Textile Products	0.4
		30B	Rubber and Plastics Footwear, Hose, Belting, Gaskets, and Other Rubber Products, n.e.c.	0.5
		INC		2.7

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14A	Textile Product Mills	22A	Broadwoven Fabrics and Textiles, Except Those from Knitting and Floor Covering Mills	11.4
		22C	Carpets and Rugs	40.5
		23A	Apparel and Other Finished Textile Products	47.1
		INC		1.0
15A	Apparel Manufacturing	22B	Knitting Mills	6.6
		23A	Apparel and Other Finished Textile Products	92.9
		30B	Rubber and Plastics Footwear, Hose, Belting, Gaskets, and Other Rubber Products, n.e.c.	0.1
		31B	Leather Products, Except Tanning, Finishing and Footwear Cut Stock	0.4
16A	Leather & Allied Product Manufacturing	30B	Rubber and Plastics Footwear, Hose, Belting, Gaskets, and Other Rubber Products, n.e.c.	9.3
		31A	Leather Tanning and Finishing, and Footwear Cut Stock	32.6
		31B	Leather Products, Except Tanning, Finishing and Footwear Cut Stock	57.9
		39B	Miscellaneous Manufactures, Except Personal Goods	0.2
21A	Wood Building and Mobile Home Manufacturing	24B	Wood Buildings and Mobile Homes	100.0
21B	Other Wood Product Manufacturing	24A	Wood Containers, Pallets, and Skids	5.7
		24C	Wood Products, Except Containers, Buildings, and Mobile Homes	94.2
		31A	Leather Tanning and Finishing, and Footwear Cut Stock	0.1
22A	Pulp, Paper, and Paperboard Mills	26A	Pulp, Paper, and Paperboard Mill Products	85.4
		26C	Miscellaneous Converted Paper Products	14.6
22B	Paperboard Container Manufacturing	26B	Paperboard Containers and Boxes	98.6
		26C	Miscellaneous Converted Paper Products	1.4
22C	Other Paper Manufacturing	26C	Miscellaneous Converted Paper Products	93.5
		34F	Miscellaneous Fabricated Metal Products, Except Containers, Cutlery, Building Materials, Ordnance and Ammunition	3.8
		38D	Medical Instruments and Supplies	2.7

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23A	Printing and Related Support Activities	23A	Apparel and Other Finished Textile Products	3.1
		27A	Newspapers, Periodicals, and Books	5.6
		27B	Publishing and Printing Products, Except Newspapers, Periodicals and Books	91.3
24A	Petroleum Refineries	29B	Petroleum Refining, Except Paving and Roofing Materials	100.0
24B	Asphalt Paving, Roofing, and Saturated Materials Manufacturing	29A	Asphalt Paving and Roofing Materials	100.0
24C	Other Petroleum and Coal Products Manufacturing	29B	Petroleum Refining, Except Paving and Roofing Materials	80.6
		33A	Blast Furnaces and Steel Mill Products	19.4
25A	Pesticide, Fertilizer, and Other Agricultural Chemical Manufacturing	28D	Agricultural Chemicals	100.0
25B	Pharmaceutical and Medicine Manufacturing	28C	Drugs, Soaps, and Toiletries	100.0
25C	Paint, Coating, and Adhesive Manufacturing	28A	Chemical Products, Except Paints, Drugs, Soaps, Toiletries, and Agricultural Chemicals	28.2
		28B	Paints and Related Products	71.8
25D	Other Chemical Manufacturing	28A	Chemical Products, Except Paints, Drugs, Soaps, Toiletries, and Agricultural Chemicals	69.8
		28B	Paints and Related Products	1.4
		28C	Drugs, Soaps, and Toiletries	20.8
		30C	Miscellaneous Plastics Products, n.e.c.	2.8
		38F		5.2
		39B	Miscellaneous Manufactures, Except Personal Goods	0.1
26A	Tire Manufacturing	30A	Tires and Tubes	100.0
26B	Other Plastics and Rubber Product Manufacturing	26C	Miscellaneous Converted Paper Products	7.3
		30B	Rubber and Plastics Footwear, Hose, Belting, Gaskets, and Other Rubber Products, n.e.c.	12.8
		30C	Miscellaneous Plastics Products, n.e.c.	77.9
		39B	Miscellaneous Manufactures, Except Personal Goods	1.3
		INC		0.7

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27A	Nonmetallic Mineral Product Manufacturing	32A	Glass Containers	4.8
		32B	Kitchen Articles and Pottery	1.7
		32C	Stone, Clay, and Glass Products, Except Glass Containers, Kitchen Articles, and Pottery	93.5
31A	Iron and Steel Mills and Ferrous and Ferroalloy and Steel Products Manufacturing	33A	Blast Furnaces and Steel Mill Products	98.4
		33C	Nonferrous Metal Products, Primary and Secondary	1.6
31B	Alumina, Aluminum, and Nonferrous Metal Production and Processing	28A	Chemical Products, Except Paints, Drugs, Soaps, Toiletries, and Agricultural Chemicals	2.4
		33A	Blast Furnaces and Steel Mill Products	0.3
		33C	Nonferrous Metal Products, Primary and Secondary	97.3
31C	Ferrous Metal Foundries	33B	Iron and Steel Foundry Products	100.0
31D	Nonferrous Metal Foundries	33C	Nonferrous Metal Products, Primary and Secondary	100.0
32A	Forging and Stamping	34C	Building Materials and Wire Products	13.6
		34F	Miscellaneous Fabricated Metal Products, Except Containers, Cutlery, Building Materials, Ordnance and Ammunition	86.4
32B	Cutlery and Handtool Manufacturing	34B	Cutlery and Handtools	76.1
		34F	Miscellaneous Fabricated Metal Products, Except Containers, Cutlery, Building Materials, Ordnance and Ammunition	12.4
		35C	Farm and Garden Machinery	0.5
		35E	Metalworking Machinery	6.6
		36I	Miscellaneous Electrical Equipment and Supplies	1.3
		37J	Boats, Motorcycles, Bicycles, Travel Trailers, and Campers	0.1
		39A	Miscellaneous Personal Goods, Such as Jewelry, Silverware, Toys and Games, Sporting Goods, Musical Instruments, and Burial Caskets	0.1
39B	Miscellaneous Manufactures, Except Personal Goods	2.7		
32C	Boiler, Tank, and Shipping Container Manufacturing	34A	Metal Cans and Shipping Containers	59.3
		34C	Building Materials and Wire Products	39.2
		34F	Miscellaneous Fabricated Metal Products, Except Containers, Cutlery, Building Materials, Ordnance and Ammunition	1.5

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32D	Metal Valve Manufacturing	34C	Building Materials and Wire Products	17.1
		34F	Miscellaneous Fabricated Metal Products, Except Containers, Cutlery, Building Materials, Ordnance and Ammunition	82.9
32E/F	Small Arms and Ordnance Manufacturing	34D/E	Ordnance and Accessories	100.0
32G	Other Fabricated Metal Product Manufacturing	32C	Stone, Clay, and Glass Products, Except Glass Containers, Kitchen Articles, and Pottery	0.2
		33A	Blast Furnaces and Steel Mill Products	0.2
		33C	Nonferrous Metal Products, Primary and Secondary	2.4
		34C	Building Materials and Wire Products	46.3
		34F	Miscellaneous Fabricated Metal Products, Except Containers, Cutlery, Building Materials, Ordnance and Ammunition	28.9
		35C	Farm and Garden Machinery	0.1
		35E	Metalworking Machinery	0.4
		35J	Industrial Machinery, n.e.c.	17.6
33A	Farm Machinery and Equipment Manufacturing	35C	Farm and Garden Machinery	100.0
33B	Lawn and Garden Tractors and Equipment Manufacturing	35C	Farm and Garden Machinery	100.0
33C	Construction Machinery Manufacturing	35D	Construction, Mining, and Material Handling Equipment	100.0
33D	Mining, Oil, and Gas Field Machinery Manufacturing	35D	Construction, Mining, and Material Handling Equipment	100.0
33E	Industrial Machinery Manufacturing	35F	Special Industrial Machinery	99.8
		36C	Household Appliances	0.1
		36I	Miscellaneous Electrical Equipment and Supplies	0.1
33F	Vending, Laundry, and Other Machinery Manufacturing	35F	Special Industrial Machinery	6.4
		35I	Refrigeration, Heating and Service Industry Machinery	83.8
		35J	Industrial Machinery, n.e.c.	1.5
		36I	Miscellaneous Electrical Equipment and Supplies	8.0
		39B	Miscellaneous Manufactures, Except Personal Goods	0.3

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33G	Photographic Equipment Manufacturing	35H	Computer and Office Equipment	23.3
		38C	Measuring and Controlling Devices	23.8
		38F	Photographic Goods	52.8
33H	Ventilation, Heating, Air-Conditioning, and Refrigeration Equipment Manufacturing	34C	Building Materials and Wire Products	10.9
		35G	General Industrial Machinery	12.9
		35I	Refrigeration, Heating and Service Industry Machinery	75.2
		36C	Household Appliances	1.1
33I	Metalworking Machinery Manufacturing	35E	Metalworking Machinery	99.8
		36I	Miscellaneous Electrical Equipment and Supplies	0.2
33J	Turbine and Generator Manufacturing	35A	Steam Engines and Turbines (Including Nuclear)	100.0
33K	Other Power Transmission Equipment Manufacturing	35B	Internal Combustion Engines Including Diesel, Except Automotive and Aircraft	76.5
		35G	General Industrial Machinery	23.4
		36I	Miscellaneous Electrical Equipment and Supplies	0.1
33L	Pump and Compressor Manufacturing	35G	General Industrial Machinery	90.4
		35I	Refrigeration, Heating and Service Industry Machinery	9.6
33M	Material Handling Equipment Manufacturing	35C	Farm and Garden Machinery	0.3
		35D	Construction, Mining, and Material Handling Equipment	99.7
33N	All Other Machinery Manufacturing	35E	Metalworking Machinery	25.0
		35G	General Industrial Machinery	49.8
		35J	Industrial Machinery, n.e.c.	25.1
		36I	Miscellaneous Electrical Equipment and Supplies	0.1
34A	Electronic Computer Manufacturing	35H	Computer and Office Equipment	100.0
34B	Computer Storage Device Manufacturing	35H	Computer and Office Equipment	100.0
34C	Other Computer Peripheral Equipment Manufacturing	35H	Computer and Office Equipment	100.0

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34D/E	Communications Equipment Manufacturing	36F/G 36H	Communication Equipment Electronic Components and Accessories	97.0 3.0
34F	Audio and Video Equipment Manufacturing	36E INC	Household Audio and Video Equipment	74.6 25.4
34G	Semiconductor and Related Device Manufacturing	36H	Electronic Components and Accessories	100.0
34H	Other Electronic Component Manufacturing	36F/G 36H	Communication Equipment Electronic Components and Accessories	1.6 98.4
34I/J	Search and Navigation Equipment Manufacturing	36I 38A/B	Miscellaneous Electrical Equipment and Supplies Search and Navigation Equipment	0.3 99.7
34K	Electromedical, Measuring, and Control Instrument Manufacturing	35H 36I 38C 38D 38E	Computer and Office Equipment Miscellaneous Electrical Equipment and Supplies Measuring and Controlling Devices Medical Instruments and Supplies Ophthalmic Goods, Watches, and Clocks	0.4 0.2 70.7 27.5 1.3
34L	Manufacturing and Reproducing Magnetic and Optical Media	36E 36I	Household Audio and Video Equipment Miscellaneous Electrical Equipment and Supplies	32.2 67.8
35A	Electric Lighting Equipment Manufacturing	36D 39B	Electric Lighting and Wiring Equipment Miscellaneous Manufactures, Except Personal Goods	98.7 1.3
35B	Household Appliance Manufacturing	36C 39B	Houshold Appliances Miscellaneous Manufactures, Except Personal Goods	99.5 0.5
35C	Electrical Equipment Manufacturing	36A 36B INC	Electrical Transmission and Distribution Equipment Electrical Industrial Apparatus	34.0 64.8 1.2
35D	Battery Manufacturing	36I	Miscellaneous Electrical Equipment and Supplies	100.0

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35E	Other Electrical Equipment, Appliance, and Component Manufacturing	33C	Nonferrous Metal Products, Primary and Secondary	46.9
		36B	Electrical Industrial Apparatus	13.8
		36D	Electric Lighting and Wiring Equipment	28.0
		36I	Miscellaneous Electrical Equipment and Supplies	11.2
36A	Automobile Manufacturing	37B	Motor Vehicles and Car Bodies	100.0
36B	Light Truck and Utility Vehicle Manufacturing	37B	Motor Vehicles and Car Bodies	100.0
36C	Heavy Duty Truck Manufacturing	37B	Motor Vehicles and Car Bodies	100.0
36D	Motor Vehicle Body and Trailer Manufacturing	37A	Motor Vehicle Parts, Accessories and Bodies, Except Car Bodies	81.7
		37J	Boats, Motorcycles, Bicycles, Travel Trailers, and Campers	18.3
36E	Motor Vehicle Parts Manufacturing	23A	Apparel and Other Finished Textile Products	3.8
		25B	Furniture, Except Household	3.3
		34F	Miscellaneous Fabricated Metal Products, Except Containers, Cutlery, Building Materials, Ordnance and Ammunition	13.5
		35I	Refrigeration, Heating and Service Industry Machinery	2.7
		35J	Industrial Machinery, n.e.c.	1.6
		36D	Electric Lighting and Wiring Equipment	1.9
		36H	Electronic Components and Accessories	0.2
		36I	Miscellaneous Electrical Equipment and Supplies	5.2
		37A	Motor Vehicle Parts, Accessories and Bodies, Except Car Bodies	67.8
36F/G	Aircraft Manufacturing	37C/D	Complete Aircraft, Missiles, and Space Vehicles	98.0
		37E/F	Aircraft, Missiles, and Space Vehicle Engines and Parts	2.0
36H/I	Aircraft Engine and Parts Manufacturing	37E/F	Aircraft, Missiles, and Space Vehicle Engines and Parts	100.0
36J	Missile, Space Vehicle, and Parts Manufacturing	37C/D	Complete Aircraft, Missiles, and Space Vehicles	78.0
		37E/F	Aircraft, Missiles, and Space Vehicle Engines and Parts	22.0
36K	Railroad Rolling Stock	35D	Construction, Mining, and Material Handling Equipment	2.1
		37I	Railroad Equipment	97.9

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36L/M	Ship and Boat Building	37G/H	Ships and Tank Components	65.5
		37J	Boats, Motorcycles, Bicycles, Travel Trailers, and Campers	34.5
36N	Other Transportation Equipment	37B	Motor Vehicles and Car Bodies	9.0
		37G/H	Ships and Tank Components	10.2
		37J	Boats, Motorcycles, Bicycles, Travel Trailers, and Campers	80.5
		39A	Miscellaneous Personal Goods, Such as Jewelry, Silverware, Toys and Games, Sporting Goods, Musical Instruments, and Burial Caskets	0.2
37A	Household Furniture and Kitchen Cabinet Manufacturing	24C	Wood Products, Except Containers, Buildings, and Mobile Homes	25.3
		25A	Household Furniture	70.6
		INC		4.0
37B	Office Furniture and Institutional Furniture Manufacturing	24C	Wood Products, Except Containers, Buildings, and Mobile Homes	1.6
		25A	Household Furniture	5.2
		25B	Furniture, Except Household	92.0
		34F	Miscellaneous Fabricated Metal Products, Except Containers, Cutlery, Building Materials, Ordnance and Ammunition	0.5
		39B	Miscellaneous Manufactures, Except Personal Goods	0.7
37C	Other Furniture Related Product Manufacturing	25A	Household Furniture	62.3
		25B	Furniture, Except Household	37.7
39A	Medical Equipment and Supplies Manufacturing	25B	Furniture, Except Household	1.5
		38C	Measuring and Controlling Devices	6.9
		38D	Medical Instruments and Supplies	77.3
		38E	Ophthalmic Goods, Watches, and Clocks	7.8
		INC		6.5
39B	Sporting Goods, Doll, Toy, and Game Manufacturing	30B	Rubber and Plastics Footwear, Hose, Belting, Gaskets, and Other Rubber Products, n.e.c.	0.8
		39A	Miscellaneous Personal Goods, Such as Jewelry, Silverware, Toys and Games, Sporting Goods, Musical Instruments, and Burial Caskets	97.3
		39B	Miscellaneous Manufactures, Except Personal Goods	1.9
39C	Office Supplies (Except Paper) Manufacturing	25B	Furniture, Except Household	1.3

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		35H	Computer and Office Equipment	5.7
		39B	Miscellaneous Manufactures, Except Personal Goods	93.0
39D	Other Miscellaneous Manufacturing	23A	Apparel and Other Finished Textile Products	1.1
		24C	Wood Products, Except Containers, Buildings, and Mobile Homes	3.5
		30B	Rubber and Plastics Footwear, Hose, Belting, Gaskets, and Other Rubber Products, n.e.c.	16.1
		31A	Leather Tanning and Finishing, and Footwear Cut Stock	0.1
		34F	Miscellaneous Fabricated Metal Products, Except Containers, Cutlery, Building Materials, Ordnance and Ammunition	0.1
		39A	Miscellaneous Personal Goods, Such as Jewelry, Silverware, Toys and Games, Sporting Goods, Musical Instruments, and Burial Caskets	30.9
		39B	Miscellaneous Manufactures, Except Personal Goods	48.2

NOTES: Percentages are based value of product shipments from the 1997 Economic Census.
 The percentages do not apply to years other than 1997 because product distributions may change.

INC in the SIC Category column indicates value of shipments coming into the manufacturing sector.
 For example: in NAICS category 11A, Grain and Oilseed Milling, 43.1 percent of the value of shipments originated from SIC category 20C, 1.5 percent originated from SIC category 20D, 52.1 percent originated from category 20E and 3.3 percent originated from outside of the manufacturing sector.