

# ASMA

1996 Annual Survey of Manufactures

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M96(AS)-2

## Value of Product Shipments



U.S. Department of Commerce  
Economics and Statistics Administration  
BUREAU OF THE CENSUS

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**Table 1. Value of Shipments for Product Classes: 1992 to 1996—Con.**

[For meaning of abbreviations and symbols and explanation of terms, see introductory text]

Industry and product class code	Description	Value of product shipments (million dollars)					Standard error of estimate <sup>1</sup> (percent) for column—
		1996	1995	1994	1993	1992	
		A	B	C	D	E	
<b>20</b>	<b>FOOD AND KINDRED PRODUCTS—Con.</b>						
<b>2076–</b>	<b>Vegetable oil mills, n.e.c.</b>	<b>873.7</b>	<b>904.5</b>	<b>860.1</b>	<b>908.2</b>	<b>747.4</b>	<b>4</b>
20761	Linseed oil	102.5	68.7	63.7	79.1	79.5	1
20762	Vegetable oils, n.e.c.	487.8	568.8	506.2	519.1	465.2	7
20763	Other vegetable oil mill products, n.e.c.	262.6	261.0	261.1	248.8	188.2	1
20760	Vegetable oil mills, n.e.c., n.s.k.	20.8	6.0	29.2	61.2	14.5	6
<b>2077–</b>	<b>Animal and marine fats and oils</b>	<b>3 602.4</b>	<b>3 198.2</b>	<b>2 784.0</b>	<b>2 854.2</b>	<b>2 843.5</b>	<b>4</b>
20771	Grease and inedible tallow	1 313.8	1 244.5	1 048.3	983.9	975.1	5
20772	Feed and fertilizer byproducts	1 961.2	1 699.2	1 460.9	1 483.8	1 497.7	6
20773	Animal and marine oil mill products	241.9	190.3	225.2	186.7	203.2	15
20770	Animal and marine fats and oils, n.s.k.	85.4	64.1	49.7	199.7	167.5	38
<b>2079–</b>	<b>Edible fats and oils, n.e.c.</b>	<b>5 831.4</b>	<b>5 709.5</b>	<b>5 596.9</b>	<b>5 801.7</b>	<b>5 473.7</b>	<b>4</b>
20791	Shortening and cooking oils	4 517.2	4 434.4	4 159.3	4 252.6	4 020.2	3
20792	Margarine	1 246.5	1 215.0	1 409.7	1 485.3	1 415.2	14
20790	Edible fats and oils, n.e.c., n.s.k.	67.7	60.0	27.9	63.8	38.3	12
<b>2082–</b>	<b>Malt beverages</b>	<b>18 195.6</b>	<b>17 108.2</b>	<b>16 713.9</b>	<b>16 628.6</b>	<b>17 301.7</b>	<b>1</b>
20821	Canned beer and ale case goods	9 864.7	9 631.3	9 592.2	10 009.7	10 636.2	1
20822	Bottled beer and ale case goods	6 080.2	5 475.5	5 199.6	4 551.5	4 861.8	1
20823	Beer and ale in barrels and kegs	1 069.3	1 014.2	999.9	1 072.1	1 026.3	1
20824	All other malt beverages and brewing products	681.6	681.5	743.8	706.7	652.7	6
20820	Malt beverages, n.s.k.	499.7	305.7	178.4	288.6	124.7	8
<b>2083–</b>	<b>Malt</b>	<b>830.3</b>	<b>696.0</b>	<b>556.2</b>	<b>574.6</b>	<b>573.3</b>	<b>8</b>
20830	Malt and malt byproducts	830.3	696.0	556.2	574.6	573.3	8
<b>2084–</b>	<b>Wines, brandy, and brandy spirits</b>	<b>5 410.6</b>	<b>4 674.9</b>	<b>4 196.2</b>	<b>4 355.0</b>	<b>4 050.0</b>	<b>5</b>
20840	Wines, brandy, and brandy spirits	5 410.6	4 674.9	4 196.2	4 355.0	4 050.0	5
<b>2085–</b>	<b>Distilled and blended liquors</b>	<b>3 187.5</b>	<b>3 371.6</b>	<b>3 460.1</b>	<b>3 340.1</b>	<b>3 255.4</b>	<b>8</b>
20851	Distilled liquor, except brandy	430.2	529.8	557.6	640.2	643.6	22
20853	Bottled liquor, except brandy	2 733.9	2 820.2	2 881.7	2 662.4	2 584.0	8
20850	Distilled and blended liquors, n.s.k.	23.4	21.6	20.8	37.4	27.9	18
<b>2086–</b>	<b>Bottled and canned soft drinks</b>	<b>29 618.1</b>	<b>28 366.1</b>	<b>26 217.8</b>	<b>23 946.1</b>	<b>23 776.4</b>	<b>3</b>
20863	Bottled carbonated soft drinks	9 864.8	9 409.1	8 676.2	7 463.7	7 456.6	5
20864	Canned carbonated soft drinks	12 271.8	11 702.9	10 892.3	9 951.5	9 941.3	4
20865	Soft drink flavoring syrup sold in bulk	1 224.4	1 190.8	1 185.3	1 137.0	1 052.4	4
20866	Noncarbonated soft drinks	5 432.5	5 120.5	4 581.5	4 038.3	3 899.4	3
20860	Bottled and canned soft drinks, n.s.k.	824.7	942.8	882.6	1 355.7	1 426.7	18
<b>2087–</b>	<b>Flavoring extracts and syrups, n.e.c.</b>	<b>8 243.8</b>	<b>7 823.3</b>	<b>7 462.0</b>	<b>7 408.3</b>	<b>6 796.2</b>	<b>4</b>
20871	Flavoring extracts, emulsions, and other liquid flavors	810.4	733.2	652.3	554.3	513.9	9
20872	Liquid beverage bases not for use by soft drink bottlers	243.7	272.9	192.5	167.7	158.8	5
20873	Liquid beverage bases for use by soft drink bottlers	3 359.4	3 331.0	3 296.4	3 146.1	2 981.5	9
20874	Other flavoring agents (except chocolate syrups)	3 499.8	3 150.0	3 057.4	2 822.1	2 697.0	4
20870	Flavoring extracts and syrups, n.e.c., n.s.k.	330.5	336.2	263.5	718.1	445.0	16
<b>2091–</b>	<b>Canned and cured fish and seafoods</b>	<b>1 037.0</b>	<b>1 068.0</b>	<b>1 150.2</b>	<b>1 253.4</b>	<b>1 139.4</b>	<b>7</b>
20910	Canned and cured fish and other seafoods, including soup (except frozen seafoods and soup)	1 037.0	1 068.0	1 150.2	1 253.4	1 139.4	7
<b>2092–</b>	<b>Fresh or frozen prepared fish and seafoods</b>	<b>6 171.4</b>	<b>6 273.6</b>	<b>6 420.4</b>	<b>6 206.4</b>	<b>6 492.5</b>	<b>6</b>
20922	Prepared fresh fish and other fresh seafood <sup>4</sup>	1 438.1	1 324.4	1 114.6	1 004.0	983.6	14
20923	Frozen fish <sup>4</sup>	2 259.1	2 281.3	2 627.7	2 571.6	2 732.4	8
20925	Frozen shellfish <sup>4</sup>	1 480.1	1 531.6	1 533.8	1 450.3	1 549.8	10
20926	Other frozen seafoods <sup>4</sup>	576.9	621.5	618.6	590.9	596.9	9
20920	Fresh or frozen prepared fish and other seafood, n.s.k.	417.2	514.6	525.8	589.7	629.8	14
<b>2095–</b>	<b>Roasted coffee</b>	<b>5 992.9</b>	<b>6 024.6</b>	<b>5 719.7</b>	<b>5 045.9</b>	<b>4 703.3</b>	<b>2</b>
20951	Roasted coffee	5 078.2	5 100.9	4 618.1	4 002.0	3 763.4	2
20952	Concentrated coffee	759.0	787.8	958.3	841.2	819.7	1
20950	Roasted coffee, n.s.k.	155.7	135.8	143.3	202.7	120.3	12
<b>2096–</b>	<b>Potato chips and similar products</b>	<b>9 203.8</b>	<b>8 606.5</b>	<b>8 162.6</b>	<b>7 918.9</b>	<b>7 527.4</b>	<b>3</b>
20961	Potato chips and sticks, plain and flavored	4 185.5	4 059.3	3 687.8	3 446.8	3 263.2	4
20962	Corn chips and related products	3 855.0	3 419.3	3 173.7	3 136.0	3 010.7	4
20963	Other chips, sticks, etc.	1 023.7	972.1	1 130.5	1 074.1	1 071.0	16
20960	Potato chips and similar products, n.s.k.	139.7	155.9	170.6	262.0	182.5	51
<b>2097–</b>	<b>Manufactured ice</b>	<b>378.8</b>	<b>402.4</b>	<b>384.6</b>	<b>377.9</b>	<b>343.2</b>	<b>10</b>
20970	Manufactured ice	378.8	402.4	384.6	377.9	343.2	10
<b>2098–</b>	<b>Macaroni and spaghetti</b>	<b>1 369.0</b>	<b>1 454.2</b>	<b>1 316.1</b>	<b>1 445.4</b>	<b>1 280.0</b>	<b>1</b>
20980	Macaroni, spaghetti, and egg noodle products except canned and frozen, not packaged with other ingredients	1 369.0	1 454.2	1 316.1	1 445.4	1 280.0	1
<b>2099–</b>	<b>Food preparations, n.e.c.</b>	<b>15 378.1</b>	<b>15 001.8</b>	<b>14 323.1</b>	<b>14 708.3</b>	<b>14 176.5</b>	<b>3</b>
20991	Desserts (ready-to-mix)	733.7	673.8	642.2	715.9	708.8	2
20993	Sweetening syrups and molasses	545.8	580.3	521.7	616.0	611.6	9
20994	Baking powder and yeast	390.8	390.0	359.7	331.1	316.0	2
20996	Vinegar and cider	187.5	219.6	204.6	235.2	228.5	20
20999	Perishable prepared foods sold in bulk or packages, not frozen or canned	2 740.7	2 635.8	2 608.8	2 430.1	2 365.2	5
2099A	Macaroni and noodle products packaged with other ingredients, not canned or frozen	1 032.5	1 199.0	1 160.5	1 220.7	1 122.3	4
2099B	Dry mix preparations, except macaroni and noodles	2 652.9	2 549.4	2 435.3	2 070.0	2 198.8	7
2099D	Tea in consumer packages	1 106.3	1 103.9	1 099.7	1 176.0	1 106.1	3
2099E	Spices	1 387.6	1 241.7	1 128.6	1 163.9	1 122.3	14
2099F	Peanut butter	944.8	932.7	904.9	1 259.8	1 269.7	6
2099G	Other food preparations, n.e.c.	1 693.8	1 645.1	1 651.9	1 616.3	1 661.3	6
20990	Food preparations, n.e.c., n.s.k.	1 962.0	1 830.6	1 605.3	1 873.3	1 465.7	5

See footnotes at end of table.



**Table 1. Value of Shipments for Product Classes: 1992 to 1996—Con.**

[For meaning of abbreviations and symbols and explanation of terms, see introductory text]

Industry and product class code	Description	Value of product shipments (million dollars)					Standard error of estimate <sup>1</sup> (percent) for column—
		1996	1995	1994	1993	1992	
		A	B	C	D	E	
<b>21</b>	<b>TOBACCO PRODUCTS</b>						
<b>2111–</b>	<b>Cigarettes, including nontobacco cigarettes</b>	<b>28 246.6</b>	<b>26 967.4</b>	<b>24 200.1</b>	<b>22 705.5</b>	<b>28 839.4</b>	<b>1</b>
21110	Cigarettes, including nontobacco cigarettes <sup>4</sup>	28 246.6	26 967.4	24 200.1	22 705.5	28 839.4	1
<b>2121–</b>	<b>Cigars</b>	<b>326.9</b>	<b>292.6</b>	<b>262.2</b>	<b>268.3</b>	<b>264.6</b>	<b>8</b>
21210	Cigars <sup>4</sup>	326.9	292.6	262.2	268.3	264.6	8
<b>2131–</b>	<b>Chewing and smoking tobacco</b>	<b>1 803.2</b>	<b>1 971.0</b>	<b>1 851.9</b>	<b>1 599.8</b>	<b>1 507.6</b>	<b>2</b>
21310	Chewing and smoking tobacco <sup>4</sup>	1 803.2	1 971.0	1 851.9	1 599.8	1 507.6	2
<b>2141–</b>	<b>Tobacco stemming and redrying</b>	<b>3 179.1</b>	<b>2 973.0</b>	<b>2 901.1</b>	<b>3 155.5</b>	<b>3 748.5</b>	<b>1</b>
21411	Unstemmed leaf tobacco redried before packing <sup>4</sup>	(D)	(D)	(D)	(D)	(D)	(X)
21412	Tobacco, stemmed <sup>4</sup>	2 837.8	2 626.0	2 577.7	2 836.8	3 067.9	1
21413	Reconstituted tobacco <sup>4</sup>	(D)	(D)	(D)	(D)	(D)	(X)
21410	Tobacco stemming and redrying, n.s.k.	13.2	12.6	12.6	12.0	12.1	1
<b>22</b>	<b>TEXTILE MILL PRODUCTS</b>						
<b>2211–</b>	<b>Broadwoven fabrics mills, cotton</b>	<b>6 581.8</b>	<b>6 639.7</b>	<b>6 084.1</b>	<b>5 863.0</b>	<b>5 708.3</b>	<b>3</b>
2211B	Plain weave fabrics, except pile (gray goods)	900.5	876.7	909.5	950.4	941.4	13
2211C	Twill weave fabrics, except pile (gray goods)	1 542.0	1 646.7	1 429.5	1 421.6	1 381.7	1
2211D	All other weaves, except pile (gray goods)	431.1	431.8	517.9	571.1	535.1	9
2211E	Pile fabrics (gray goods)	339.9	354.3	292.8	216.4	300.9	10
2211F	Finished cotton broadwoven fabrics (finished in weaving mills) (see also code 22617) <sup>2</sup>	1 493.4	1 503.5	1 420.0	1 364.0	1 253.6	7
2211G	Cotton towels and washcloths (made in weaving mills) (see also code 23923) <sup>2 3</sup>	809.1	779.2	747.5	719.8	731.6	1
2211H	Fabricated cotton textile products, except towels and washcloths (made in weaving mills)	928.3	869.3	688.7	533.1	497.6	2
22110	Broadwoven fabrics mills, cotton, n.s.k.	137.6	178.3	78.3	86.6	66.4	11
<b>2221–</b>	<b>Broadwoven fabrics mills, manmade fiber and silk</b>	<b>9 549.2</b>	<b>9 715.6</b>	<b>9 442.2</b>	<b>8 853.2</b>	<b>8 500.1</b>	<b>2</b>
2221B	85 percent or more filament rayon and/or acetate fabrics, including blends chiefly rayon and/or acetate (gray goods)	819.7	822.2	832.9	688.4	639.7	7
2221C	85 percent or more filament fabrics, except rayon or acetate (gray goods)	2 607.0	2 486.2	2 493.3	2 425.3	2 222.9	1
2221D	85 percent or more spun yarn plain weave fabrics, except wool blends (gray goods)	1 582.5	1 792.0	1 856.3	2 007.5	1 952.7	1
2221E	85 percent or more spun yarn twill weave fabrics, except pile, excluding wool blends (gray goods)	304.2	325.7	303.5	349.0	301.7	4
2221F	Other 85 percent or more spun yarn fabrics, except pile, excluding wool blends (gray goods)	429.9	457.3	468.3	347.0	359.4	11
2221G	Combinations of spun yarn and filament fabrics, except wool blends, each less than 85% of total fiber content (gray)	932.8	989.3	934.1	960.8	1 009.3	8
2221H	Other manmade fiber fabrics and silk fabrics (gray goods)	313.7	386.6	357.7	201.3	246.2	4
2221J	Finished manmade fiber and silk broadwoven fabrics (finished in weaving mills) (see also code 22628) <sup>2</sup>	2 086.4	2 017.3	1 771.5	1 377.1	1 291.0	3
2221K	Sheets and pillowcases, wholly or chiefly manmade fibers and silk (made in weaving mills) (see also code 23922) <sup>2 3</sup>	(D)	(D)	(D)	(D)	(D)	(X)
2221M	Fabricated manmade fiber and silk textile products, except sheets and pillowcases (made in weaving mills)	(D)	(D)	(D)	(D)	(D)	(X)
22210	Broadwoven fabrics mills, manmade fiber and silk, n.s.k.	86.5	90.4	67.3	111.5	64.9	10
<b>2231–</b>	<b>Broadwoven fabrics mills, wool</b>	<b>1 426.6</b>	<b>1 463.3</b>	<b>1 518.3</b>	<b>1 502.1</b>	<b>1 388.1</b>	<b>2</b>
22311	Finished wool yarns, tops, or raw stock, not combed or spun at the same establishment	72.0	69.9	64.7	71.2	63.4	2
22312	Wool broadwoven fabrics (gray goods)	423.4	432.0	440.0	437.4	393.3	4
22316	Finished broadwoven wool fabrics and felts	892.1	915.1	971.5	950.7	887.0	2
22317	Receipts for commission finishing or sponging of wool fabrics	(D)	(D)	(D)	(D)	(D)	(X)
22319	Fabricated textile products, 36 percent or more wool (made in weaving mills)	(D)	(D)	(D)	(D)	(D)	(X)
22310	Broadwoven fabrics mills, wool, n.s.k.	18.2	17.9	18.6	26.7	19.7	61
<b>2241–</b>	<b>Narrow fabrics mills</b>	<b>1 416.5</b>	<b>1 455.9</b>	<b>1 437.0</b>	<b>1 298.4</b>	<b>1 223.0</b>	<b>9</b>
22411	Woven narrow fabrics (12 inches or less in width)	941.6	967.0	933.5	809.7	820.0	12
22414	Braided narrow fabrics (12 inches or less in width)	217.6	227.3	222.0	199.2	205.5	6
22415	Covered rubber thread	194.6	199.7	205.3	205.0	152.4	17
22410	Narrow fabrics mills, n.s.k.	62.6	61.8	76.2	84.5	45.1	26
<b>2251–</b>	<b>Women's hosiery, except socks</b>	<b>1 523.0</b>	<b>1 579.5</b>	<b>1 717.0</b>	<b>1 656.8</b>	<b>1 856.9</b>	<b>6</b>
22514	Women's and misses' finished hosiery, full-length and knee-length	172.2	193.3	204.0	150.0	338.7	12
22516	Women's and misses' finished panty hose, including tights	1 264.6	1 287.3	1 392.5	1 364.2	1 394.2	6
22518	Women's hosiery shipped in the greige	78.7	88.5	88.7	95.4	84.6	1
22510	Women's hosiery, except socks, n.s.k.	7.5	10.4	31.8	47.3	39.3	(A)
<b>2252–</b>	<b>Hosiery, n.e.c.</b>	<b>3 148.6</b>	<b>2 796.6</b>	<b>2 756.9</b>	<b>2 533.6</b>	<b>2 455.2</b>	<b>3</b>
22522	Men's finished seamless hosiery (sizes 10 and up)	1 359.2	1 281.7	1 306.5	1 065.7	1 134.7	3
22525	All other finished hosiery	1 380.5	1 205.5	1 114.3	1 124.0	1 004.0	6
22526	Seamless hosiery shipped in the greige	317.2	224.4	214.4	199.8	229.5	10
22520	Hosiery, n.e.c., n.s.k.	91.8	85.0	121.7	144.1	87.0	16
<b>2253–</b>	<b>Knit outerwear mills</b>	<b>5 052.5</b>	<b>4 944.9</b>	<b>4 551.1</b>	<b>4 277.6</b>	<b>3 513.6</b>	<b>3</b>
22534	Men's and boys' sweaters <sup>3</sup>	184.2	206.8	237.4	162.8	172.3	17
22535	Women's, misses', and juniors' sweaters <sup>3</sup>	303.1	354.5	294.9	301.6	301.6	29
22536	Girls', children's, and infants' sweaters <sup>3</sup>	29.7	36.9	45.7	52.6	25.8	11
2253A	Men's and boys' knit shirts (see also code 23213) <sup>2 3</sup>	2 827.0	2 540.8	2 077.5	1 993.1	1 449.2	1
2253B	Women's, misses', and juniors' knit shirts and blouses (see also code 23313) <sup>2 3</sup>	207.2	211.5	223.2	188.6	179.2	13
2253C	Girls', children's, and infants' knit shirts and blouses (see also code 23613) <sup>2 3</sup>	51.6	57.5	83.8	80.7	64.0	22
2253D	All other knit outerwear products <sup>3</sup>	588.3	748.0	896.6	784.6	743.1	16
2253E	Contract and commission receipts for knitting only or knitting and finishing outerwear	714.8	628.6	535.8	531.5	411.2	8
22530	Knit outerwear mills, n.s.k.	146.5	160.3	156.2	182.0	167.2	14
<b>2254–</b>	<b>Knit underwear mills</b>	<b>1 383.3</b>	<b>1 480.6</b>	<b>1 403.5</b>	<b>1 613.7</b>	<b>1 140.1</b>	<b>5</b>
22541	Men's and boys' knit underwear and nightwear (see also codes 23221 and 23222) <sup>2 3</sup>	(D)	(D)	(D)	(D)	(D)	(X)
22544	Women's and children's knit underwear and nightwear (see also codes 23412 and 23413) <sup>2 3</sup>	406.2	483.8	502.4	623.6	405.2	13
22540	Knit underwear mills, n.s.k.	(D)	(D)	(D)	(D)	(D)	(X)

See footnotes at end of table.

















**Table 1. Value of Shipments for Product Classes: 1992 to 1996—Con.**

[For meaning of abbreviations and symbols and explanation of terms, see introductory text]

Industry and product class code	Description	Value of product shipments (million dollars)					Standard error of estimate <sup>1</sup> (percent) for column—
		1996	1995	1994	1993	1992	
		A	B	C	D	E	
<b>28</b>	<b>CHEMICALS AND ALLIED PRODUCTS—Con.</b>						
<b>2819–</b>	<b>Industrial inorganic chemicals, n.e.c.</b>	<b>14 286.2</b>	<b>13 705.2</b>	<b>11 904.5</b>	<b>12 601.9</b>	<b>12 702.3</b>	<b>2</b>
28193	Sulfuric acid <sup>3</sup>	568.6	563.1	363.2	496.3	549.0	25
28194	Inorganic acids, except nitric, sulfuric, and phosphoric <sup>3</sup>	661.4	580.0	581.6	567.0	537.8	3
28195	Aluminum oxide <sup>3</sup>	1 070.1	1 076.0	833.6	931.0	967.6	1
28196	Other inorganic aluminum compounds <sup>3</sup>	754.7	656.9	536.5	545.4	601.5	5
28197	Inorganic potassium and sodium compounds, n.e.c. <sup>3</sup>	2 009.7	1 925.7	1 789.8	2 125.1	1 921.9	8
28198	Chemical catalytic preparations <sup>3</sup>	1 835.0	1 619.8	1 181.2	1 347.2	1 358.2	6
28199	Other inorganic chemicals, n.e.c. <sup>3</sup>	7 018.9	6 972.9	6 227.3	6 048.6	6 357.6	1
28190	Industrial inorganic chemicals, n.e.c., n.s.k.	367.7	310.8	391.4	541.3	408.7	12
<b>2821–</b>	<b>Plastics materials and resins</b>	<b>42 750.5</b>	<b>44 016.9</b>	<b>38 042.8</b>	<b>33 588.8</b>	<b>33 299.3</b>	<b>1</b>
28213	Thermoplastic resins and plastics materials	34 545.7	36 034.3	31 023.5	27 567.2	27 559.8	1
28214	Thermosetting resins and plastics materials	7 707.4	7 652.3	6 741.6	5 787.2	5 564.5	4
28210	Plastics materials and resins, n.s.k.	497.4	330.4	277.6	234.4	175.0	11
<b>2822–</b>	<b>Synthetic rubber (vulcanizable elastomers)</b>	<b>5 138.6</b>	<b>5 430.4</b>	<b>4 982.8</b>	<b>4 643.2</b>	<b>4 318.1</b>	<b>1</b>
28220	Synthetic rubber	5 138.6	5 430.4	4 982.8	4 643.2	4 318.1	1
<b>2823–</b>	<b>Cellulosic manmade fibers</b>	<b>1 978.7</b>	<b>1 870.1</b>	<b>1 718.9</b>	<b>1 662.3</b>	<b>1 692.4</b>	<b>1</b>
28230	Rayon and acetate fibers	1 978.7	1 870.1	1 718.9	1 662.3	1 692.4	1
<b>2824–</b>	<b>Manmade organic fibers, noncellulosic</b>	<b>10 404.7</b>	<b>10 658.7</b>	<b>10 060.3</b>	<b>9 429.6</b>	<b>9 231.4</b>	<b>1</b>
28241	Nylon and other polyamide fibers	2 828.9	2 770.3	2 331.1	2 323.7	2 255.9	1
28242	Polyolefin	297.4	326.2	373.9	207.4	226.6	28
28244	Polyester	3 494.8	3 993.5	3 551.1	3 365.6	3 298.9	1
28248	Producer textured noncellulosic manmade fibers	2 730.4	2 627.2	2 886.9	2 608.7	2 503.6	1
28249	Other noncellulosic manmade fibers (except glass, carbon, and graphite)	1 030.3	906.0	913.4	909.9	943.0	1
28240	Manmade organic fibers, noncellulosic, n.s.k.	22.8	35.5	3.9	14.3	3.4	7
<b>2833–</b>	<b>Medicinals and botanicals</b>	<b>8 999.2</b>	<b>7 344.5</b>	<b>6 771.5</b>	<b>6 748.8</b>	<b>7 002.1</b>	<b>2</b>
28331	Synthetic organic medicinal chemicals, in bulk	7 186.2	5 545.7	5 094.1	4 849.3	5 774.9	3
28333	Other medicinal chemicals and botanical products, in bulk, n.e.c.	1 586.4	1 566.1	1 531.6	1 564.4	1 129.1	4
28330	Medicinals and botanicals, n.s.k.	226.6	232.8	145.7	335.2	98.1	1
<b>2834–</b>	<b>Pharmaceutical preparations</b>	<b>52 932.2</b>	<b>49 964.8</b>	<b>48 086.1</b>	<b>45 521.8</b>	<b>43 082.2</b>	<b>2</b>
28341	Pharmaceutical preparations affecting neoplasms, the endocrine system, and metabolic diseases, for human use <sup>3</sup>	4 846.1	4 102.1	3 686.4	3 814.7	3 532.9	7
28342	Pharmaceutical preparations acting on the central nervous system and the sense organs, for human use <sup>3</sup>	10 623.8	10 219.5	9 089.3	8 633.7	8 436.5	6
28343	Pharmaceutical preparations acting on the cardiovascular system, for human use <sup>3</sup>	6 828.5	6 157.7	5 675.7	5 166.4	5 087.0	2
28344	Pharmaceutical preparations acting on the respiratory system, for human use <sup>3</sup>	5 474.5	5 054.7	5 059.8	4 935.3	5 046.4	4
28345	Pharmaceutical preparations acting on the digestive or the genito-urinary systems, for human use <sup>3</sup>	8 369.7	8 347.2	8 625.5	7 825.1	7 032.9	1
28346	Pharmaceutical preparations acting on the skin, for human use <sup>3</sup>	2 181.8	2 293.8	2 168.0	2 008.7	1 789.8	6
28347	Vitamin, nutrient, and hematinic preparations, for human use <sup>3</sup>	4 854.7	4 493.6	4 289.7	3 575.8	3 172.9	10
28348	Pharmaceutical preparations affecting parasitic and infective diseases, for human use <sup>3</sup>	7 485.3	7 269.0	7 406.4	7 177.8	7 130.6	6
28349	Pharmaceutical preparations, for veterinary use <sup>3</sup>	1 614.8	1 469.1	1 515.4	1 391.2	1 305.8	2
28340	Pharmaceutical preparations, n.s.k.	652.9	558.2	570.0	993.2	547.5	5
<b>2835–</b>	<b>Diagnostic substances</b>	<b>8 036.1</b>	<b>7 925.9</b>	<b>7 178.5</b>	<b>6 453.2</b>	<b>6 196.2</b>	<b>4</b>
28351	Diagnostic substances, in vitro	6 725.7	6 689.6	5 901.1	5 242.1	5 099.4	5
28352	Diagnostic substances, in vivo	1 249.0	1 160.6	1 194.3	1 131.0	1 053.4	1
28350	Diagnostic substances, n.s.k.	61.5	75.7	83.1	80.1	43.5	12
<b>2836–</b>	<b>Biological products, except diagnostic</b>	<b>6 325.6</b>	<b>6 293.0</b>	<b>5 714.9</b>	<b>5 246.1</b>	<b>4 512.2</b>	<b>2</b>
28361	Blood and blood derivatives, for human use	1 462.5	1 624.3	1 430.6	1 211.3	1 051.9	4
28362	Vaccines, toxoids, and antigens, except allergens, for human use	1 063.8	1 192.2	1 080.6	995.4	983.2	1
28363	Other biologics for human use	2 337.6	2 120.1	1 981.5	1 737.8	1 418.9	1
28364	Biological products for veterinary, industrial, and other uses, n.e.c., except diagnostics	1 235.4	1 131.9	1 052.3	974.0	813.9	5
28360	Biological products, except diagnostic, n.s.k.	226.3	224.6	169.9	327.5	244.3	28
<b>2841–</b>	<b>Soap and other detergents</b>	<b>12 466.6</b>	<b>12 205.1</b>	<b>11 088.6</b>	<b>11 593.5</b>	<b>11 021.5</b>	<b>3</b>
28411	Soaps and detergents, commercial, industrial, and institutional	2 594.7	2 399.7	2 384.4	2 335.6	2 222.0	11
28412	Household detergents	6 984.1	7 046.3	6 228.6	6 172.3	6 033.8	1
28413	Soaps, except specialty cleaners, household	1 997.6	1 914.1	1 685.8	1 872.9	1 969.6	4
28414	Glycerin, natural <sup>4</sup>	223.4	248.5	195.3	176.6	138.3	1
28410	Soap and other detergents, n.s.k.	666.8	596.5	594.5	1 036.1	657.8	9
<b>2842–</b>	<b>Polishes and sanitation goods</b>	<b>7 327.1</b>	<b>7 755.1</b>	<b>7 601.4</b>	<b>7 492.3</b>	<b>6 476.6</b>	<b>4</b>
28422	Household bleaches (chlorine and nonchlorine) <sup>3</sup>	873.7	889.5	945.0	953.3	946.1	8
28423	Specialty cleaning and sanitation products	4 497.9	4 859.0	4 739.1	4 500.3	3 661.5	5
28424	Polishing preparations and related products	1 216.5	1 307.6	1 296.0	1 190.3	1 086.5	6
28420	Polishes and sanitation goods, n.s.k.	739.0	699.1	621.2	848.4	782.6	10
<b>2843–</b>	<b>Surfactants, finishing agents, and assistants</b>	<b>4 835.8</b>	<b>4 702.8</b>	<b>3 647.6</b>	<b>4 032.1</b>	<b>3 776.0</b>	<b>6</b>
28430	Surfactants, finishing agents, and assistants	4 835.8	4 702.8	3 647.6	4 032.1	3 776.0	6
<b>2844–</b>	<b>Toilet preparations</b>	<b>23 167.7</b>	<b>21 112.3</b>	<b>20 284.2</b>	<b>20 175.3</b>	<b>18 724.4</b>	<b>3</b>
28441	Shaving preparations	472.3	586.7	471.5	509.1	499.0	2
28442	Perfumes, toilet waters, and colognes	2 925.1	3 030.5	2 920.3	2 560.3	2 230.2	3
28443	Hair preparations (including shampoos)	6 200.0	5 174.6	5 027.2	4 721.7	4 638.0	8
28444	Dentifrices, mouthwashes, gargles, and rinses	1 995.9	1 746.9	1 933.0	1 971.3	1 717.4	3
28446	Creams, lotions and oils, excluding shaving, hair, and deodorant	3 960.8	3 569.4	3 454.1	3 233.2	3 084.0	3
28447	Other cosmetics and toilet preparations	6 919.9	6 329.1	5 782.1	5 998.6	5 722.9	2
28440	Toilet preparations, n.s.k.	693.7	675.1	696.1	1 181.2	832.9	9
<b>2851–</b>	<b>Paints and allied products</b>	<b>17 375.8</b>	<b>16 725.5</b>	<b>16 425.9</b>	<b>15 355.9</b>	<b>14 282.5</b>	<b>3</b>
28511	Architectural coatings <sup>3</sup>	6 367.8	6 151.2	6 168.3	5 545.6	5 327.8	3
28512	Product finishes for original equipment manufacturers (OEM), excluding marine coatings <sup>3</sup>	5 643.1	5 378.1	5 085.6	4 553.8	4 254.2	5
28513	Special purpose coatings including all marine coatings <sup>3</sup>	3 221.6	3 077.3	3 097.4	2 953.2	2 886.7	10
28515	Miscellaneous allied paint products <sup>3</sup>	1 552.7	1 503.7	1 456.6	1 316.8	1 251.7	6
28510	Paints and allied products, n.s.k.	590.6	615.2	618.1	986.5	562.0	5
<b>2861–</b>	<b>Gum and wood chemicals</b>	<b>945.9</b>	<b>940.5</b>	<b>885.5</b>	<b>776.4</b>	<b>796.2</b>	<b>4</b>
28610	Gum and wood chemicals, including wood distillation products	945.9	940.5	885.5	776.4	796.2	4

See footnotes at end of table.

**Table 1. Value of Shipments for Product Classes: 1992 to 1996—Con.**

[For meaning of abbreviations and symbols and explanation of terms, see introductory text]

Industry and product class code	Description	Value of product shipments (million dollars)					Standard error of estimate <sup>1</sup> (percent) for column—
		1996	1995	1994	1993	1992	
		A	B	C	D	E	
<b>28</b>	<b>CHEMICALS AND ALLIED PRODUCTS—Con.</b>						
<b>2865–</b>	<b>Cyclic crudes and intermediates</b> .....	<b>15 385.9</b>	<b>16 257.0</b>	<b>14 512.2</b>	<b>12 754.8</b>	<b>12 808.9</b>	<b>1</b>
28651	Cyclic intermediates .....	9 662.0	10 432.4	8 667.9	7 574.2	7 679.9	1
28652	Synthetic organic dyes .....	1 176.9	1 308.9	1 408.3	1 267.4	1 341.7	4
28653	Synthetic organic pigments, lakes, and toners .....	1 784.3	1 548.8	1 586.4	1 283.2	1 246.0	5
28655	Tar, tar crudes, and tar pitches .....	445.7	430.9	439.7	394.0	493.2	1
28656	Aromatics (benzene, toluene, xylene, etc.), not made in a refinery .....	2 209.6	2 452.0	2 337.9	2 028.7	1 965.1	2
28650	Cyclic crudes and intermediates, n.s.k. ....	107.5	84.0	72.1	207.2	83.0	1
<b>2869–</b>	<b>Industrial organic chemicals, n.e.c.</b> .....	<b>55 146.4</b>	<b>56 049.2</b>	<b>50 491.1</b>	<b>46 380.3</b>	<b>45 846.2</b>	<b>2</b>
28691	Liquefied refinery gases (aliphatics), not made in a refinery <sup>2</sup> .....	9 963.2	10 017.0	8 745.0	7 785.1	8 317.1	1
28692	Ethyl alcohol .....	1 664.5	1 808.0	1 562.2	1 506.6	1 464.1	11
28693	Synthetic organic chemicals, n.e.c. ....	3 523.2	3 456.1	3 259.3	3 359.5	3 582.1	9
28694	Bulk pesticides and other bulk synthetic organic agricultural chemicals .....	1 659.4	1 336.8	1 258.1	1 253.3	1 243.1	3
28696	Miscellaneous end-use chemicals and chemical products .....	7 255.8	7 341.5	6 245.4	6 475.7	6 222.9	4
28697	Miscellaneous cyclic and acyclic chemicals and chemical products .....	25 459.7	27 419.1	24 930.4	22 031.8	21 437.2	4
28698	Other industrial organic chemicals (data which are not reported to the International Trade Commission) .....	4 879.7	4 343.7	4 082.1	3 160.5	3 131.4	9
28690	Industrial organic chemicals, n.e.c., n.s.k. ....	740.8	327.0	408.6	807.8	448.3	5
<b>2873–</b>	<b>Nitrogenous fertilizers</b> .....	<b>4 863.5</b>	<b>4 761.2</b>	<b>4 428.0</b>	<b>3 737.2</b>	<b>3 589.0</b>	<b>4</b>
28731	Synthetic ammonia, nitric acid, and ammonium compounds <sup>3</sup> .....	3 675.2	3 699.4	3 443.4	2 862.9	2 691.4	5
28732	Urea <sup>3</sup> .....	915.0	769.8	735.9	641.6	708.8	7
28733	Fertilizer materials of organic origin .....	162.9	196.9	170.7	147.6	155.5	14
28730	Nitrogenous fertilizers, n.s.k. ....	110.4	95.1	78.0	85.1	33.3	3
<b>2874–</b>	<b>Phosphatic fertilizers</b> .....	<b>5 363.5</b>	<b>4 983.4</b>	<b>4 271.8</b>	<b>3 396.6</b>	<b>3 928.6</b>	<b>7</b>
28741	Phosphoric acid <sup>3</sup> .....	1 256.2	1 226.5	1 101.4	943.3	1 144.0	1
28742	Superphosphate and other phosphatic fertilizer materials <sup>3</sup> .....	3 814.7	3 462.8	2 848.2	2 138.8	2 534.1	10
28744	Mixed fertilizers <sup>2</sup> .....	170.7	169.2	292.3	252.5	232.4	51
28740	Phosphatic fertilizers, n.s.k. ....	121.9	124.7	29.8	62.0	18.2	2
<b>2875–</b>	<b>Fertilizers, mixing only</b> .....	<b>2 016.9</b>	<b>2 276.4</b>	<b>2 317.1</b>	<b>2 081.2</b>	<b>1 903.5</b>	<b>16</b>
28750	Mixed fertilizers, made by plants which do not manufacture fertilizer materials <sup>2</sup> .....	2 016.9	2 276.4	2 317.1	2 081.2	1 903.5	16
<b>2879–</b>	<b>Agricultural chemicals, n.e.c.</b> .....	<b>10 038.4</b>	<b>9 623.4</b>	<b>8 847.9</b>	<b>8 736.8</b>	<b>8 224.9</b>	<b>1</b>
28795	Insecticidal preparations primarily for agricultural, garden, and health service use .....	1 975.2	1 780.6	1 756.0	1 687.0	1 573.4	2
28796	Herbicidal preparations primarily for agricultural, garden, and health service use .....	5 799.3	5 572.5	4 726.3	4 471.8	4 202.6	1
28797	Fungicidal preparations primarily for agricultural, garden, and health service use .....	806.7	777.6	769.6	600.9	700.6	2
28798	Other pesticidal preparations and agricultural chemicals, n.e.c., primarily for agricultural use .....	562.1	533.9	515.5	562.3	594.7	4
28799	Household pesticidal preparations, including industrial exterminants .....	743.2	748.1	853.8	949.7	874.3	9
28790	Agricultural chemicals, n.e.c., n.s.k. ....	152.0	210.7	226.8	465.2	279.2	39
<b>2891–</b>	<b>Adhesives and sealants</b> .....	<b>6 141.3</b>	<b>5 593.7</b>	<b>5 426.5</b>	<b>5 807.0</b>	<b>5 414.6</b>	<b>5</b>
28913	Natural base glues and adhesives .....	487.4	468.6	410.1	246.5	191.8	13
28914	Synthetic resin and rubber adhesives, including all types of bonding and laminating adhesives .....	4 205.9	3 669.8	3 545.8	3 719.1	3 595.5	7
28916	Structural sealants (load bearing) .....	458.3	449.4	444.3	405.9	344.1	2
28917	Nonstructural caulking compounds and sealants .....	702.7	737.8	712.1	911.0	863.3	18
28910	Adhesives and sealants, n.s.k. ....	287.0	268.1	314.1	524.4	419.9	17
<b>2892–</b>	<b>Explosives</b> .....	<b>1 160.8</b>	<b>980.0</b>	<b>910.3</b>	<b>876.6</b>	<b>888.4</b>	<b>12</b>
28920	Explosives, propellants, and blasting accessories, except those shipped by Government-owned, contractor-operated plants .....	1 160.8	980.0	910.3	876.6	888.4	12
<b>2893–</b>	<b>Printing ink</b> .....	<b>4 032.4</b>	<b>3 869.0</b>	<b>3 464.3</b>	<b>3 247.9</b>	<b>3 063.8</b>	<b>7</b>
28931	Letterpress inks .....	138.5	146.0	142.4	125.7	140.5	5
28932	Lithographic and offset inks .....	1 955.6	1 847.4	1 633.6	1 424.9	1 394.5	14
28933	Gravure inks .....	524.9	536.8	485.9	529.2	464.5	3
28934	Flexographic inks .....	775.8	718.0	640.9	601.0	590.2	4
28935	Printing inks, n.e.c. ....	393.4	387.7	334.8	263.0	213.5	14
28930	Printing ink, n.s.k. ....	244.1	233.0	226.7	304.1	260.7	30
<b>2895–</b>	<b>Carbon black</b> .....	<b>873.3</b>	<b>796.3</b>	<b>806.3</b>	<b>702.5</b>	<b>607.5</b>	<b>17</b>
28950	Carbon black (channel and furnace process only) .....	873.3	796.3	806.3	702.5	607.5	17
<b>2899–</b>	<b>Chemical preparations, n.e.c.</b> .....	<b>10 710.4</b>	<b>10 976.1</b>	<b>10 342.1</b>	<b>10 130.3</b>	<b>9 466.0</b>	<b>3</b>
28991	Evaporated salt .....	566.1	572.3	583.1	537.5	536.7	2
28992	Fatty acids (produced for sale as such) .....	582.9	623.3	521.2	479.6	509.3	1
28994	Gelatin, except ready-to-eat desserts .....	356.1	379.2	337.6	324.3	314.1	1
28995	Chemical preparations, n.e.c., including essential oils, automotive chemicals, and water treating compounds .....	8 411.1	8 597.7	8 053.8	7 290.8	7 169.3	3
28990	Chemical preparations, n.e.c., n.s.k. ....	794.3	803.6	846.5	1 498.1	936.6	7
<b>29</b>	<b>PETROLEUM AND COAL PRODUCTS</b>						
<b>2911–</b>	<b>Petroleum refining</b> .....	<b>151 856.8</b>	<b>131 085.6</b>	<b>123 825.4</b>	<b>125 456.1</b>	<b>131 640.1</b>	<b>1</b>
29111	Gasoline, including finished base stocks and blending agents .....	77 595.1	67 002.3	62 451.0	65 251.1	70 094.6	1
29112	Jet fuel .....	13 816.9	10 974.7	10 734.2	11 440.6	11 948.7	1
29113	Kerosene .....	974.5	863.6	934.1	924.9	923.6	1
29114	Light fuel oils .....	31 496.5	24 944.7	24 898.7	25 156.1	26 389.0	1
29115	Heavy fuel oils .....	4 702.8	4 401.4	4 876.1	4 908.9	4 710.9	5
29117	Lubricating oils and greases, made in a refinery <sup>2</sup> .....	1 553.0	1 715.0	1 771.7	1 556.1	1 446.3	1
29118	Unfinished oils and lubricating oil base stock .....	6 788.7	5 480.5	5 148.5	4 417.7	4 768.1	4
29119	Asphalt .....	2 902.0	2 818.7	2 295.8	2 397.2	1 975.5	4
2911A	Liquefied refinery gases including other aliphatics (feed stock and other uses), made in a refinery <sup>2</sup> .....	6 287.7	7 106.1	5 619.4	5 262.1	5 315.9	1
2911D	Other finished petroleum products, including waxes .....	5 637.8	5 684.8	5 046.1	4 025.5	3 978.4	1
29110	Petroleum refining, n.s.k. ....	101.9	93.7	49.7	116.0	89.1	23
<b>2951–</b>	<b>Asphalt paving mixtures and blocks</b> .....	<b>4 718.5</b>	<b>4 403.2</b>	<b>4 157.2</b>	<b>4 130.4</b>	<b>3 652.5</b>	<b>6</b>
29510	Paving mixtures and blocks .....	4 718.5	4 403.2	4 157.2	4 130.4	3 652.5	6
<b>2952–</b>	<b>Asphalt felts and coatings</b> .....	<b>4 425.1</b>	<b>4 110.2</b>	<b>3 869.9</b>	<b>3 986.8</b>	<b>3 631.2</b>	<b>4</b>
29522	Roofing asphalts and pitches, coatings, and cements .....	739.8	650.7	669.3	578.9	543.9	10
29524	Prepared asphalt and tar roofing and siding products including saturated felts and boards for nonbuilding use .....	3 546.6	3 332.2	3 077.7	3 173.7	2 928.1	4
29520	Asphalt felts and coatings, n.s.k. ....	138.7	127.3	122.8	234.2	159.3	15

See footnotes at end of table.

**Table 1. Value of Shipments for Product Classes: 1992 to 1996—Con.**

[For meaning of abbreviations and symbols and explanation of terms, see introductory text]

Industry and product class code	Description	Value of product shipments (million dollars)					Standard error of estimate <sup>1</sup> (percent) for column— A
		1996	1995	1994	1993	1992	
		A	B	C	D	E	
<b>29</b>	<b>PETROLEUM AND COAL PRODUCTS—Con.</b>						
2992–29920	Lubricating oils and greases . . . . .	5 527.2	5 337.2	5 292.6	5 148.5	4 914.7	4
	Lubricating oils and greases, not made in a refinery <sup>2</sup> . . . . .	5 527.2	5 337.2	5 292.6	5 148.5	4 914.7	4
2999–29990	Petroleum and coal products, n.e.c. . . . .	1 035.1	871.8	838.5	964.2	802.8	17
	Petroleum and coal products, n.e.c. . . . .	1 035.1	871.8	838.5	964.2	802.8	17
<b>30</b>	<b>RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS</b>						
3011–30110	Tires and inner tubes . . . . .	13 752.6	13 835.2	12 815.5	12 240.9	11 315.8	1
30111	Passenger car pneumatic tires (casings) . . . . .	6 652.8	6 620.9	6 412.4	6 331.9	5 927.7	1
30112	Truck and bus (including off-the-highway pneumatic tires) . . . . .	4 933.6	5 060.0	4 450.5	4 023.9	3 608.0	1
30117	Tractor and implement pneumatic tires . . . . .	674.5	630.4	567.7	515.0	433.2	1
30118	Industrial and utility pneumatic tires . . . . .	222.2	245.7	192.2	165.8	179.3	20
30119	Other pneumatic tires . . . . .	187.4	165.8	137.6	147.8	158.2	2
3011A	Solid and semipneumatic tires . . . . .	156.8	125.9	123.3	110.8	116.2	10
3011C	Inner tubes . . . . .	131.3	128.0	132.8	127.0	116.1	1
3011D	Tread rubber, tire sundries, and repair materials . . . . .	757.3	799.8	763.9	742.4	721.9	12
30110	Tires and inner tubes, n.s.k. . . . .	36.9	58.7	35.1	76.3	55.2	10
3021–30210	Rubber and plastics footwear . . . . .	777.4	763.6	839.5	719.1	803.4	9
30214	Protective footwear <sup>3</sup> . . . . .	278.5	279.1	288.0	228.9	234.9	11
30215	Shoes with soles vulcanized, molded, or cemented to fabrics uppers <sup>3</sup> . . . . .	472.4	458.6	521.2	456.8	544.0	13
30210	Rubber and plastics footwear, n.s.k. . . . .	26.6	25.8	30.3	33.3	24.6	43
3052–30520	Rubber and plastics hose and belting . . . . .	3 298.0	3 215.1	3 072.1	2 889.6	2 629.0	4
30521	Rubber and plastics belts and belting, flat . . . . .	550.9	479.0	450.0	520.7	470.7	21
30522	Rubber and plastics transmission belts and belting other than flat . . . . .	725.9	675.0	638.5	599.0	556.0	1
3052A	Hose for on- and off-highway motor vehicles (made of rubber and other materials; e.g., plastics, nylon) . . . . .	810.2	819.1	839.5	668.3	571.3	1
3052B	Industrial hose without fittings . . . . .	289.1	272.4	249.6	241.3	211.6	5
3052C	Water hose without fittings . . . . .	104.7	116.7	114.2	127.6	129.8	7
3052D	Rubber and plastics garden hose (with or without fittings) . . . . .	228.9	203.4	207.5	201.5	209.9	9
3052F	Air hose (other than pneumatic power transfer) . . . . .	111.7	113.7	110.8	131.0	119.9	4
3052G	Pneumatic and hydraulic hose, n.e.c., without fittings (made of rubber and other materials; e.g., plastics, nylon) . . . . .	410.7	438.5	387.4	309.7	287.9	2
30520	Rubber and plastics hose and belting, n.s.k. . . . .	65.9	97.3	74.7	90.6	71.8	25
3053–30530	Gaskets, packing, and sealing devices . . . . .	4 411.8	4 170.8	3 860.6	3 282.9	3 152.7	5
30534	Compression packings . . . . .	113.9	106.2	102.7	96.4	102.9	5
30535	Nonmetallic gaskets and gasketing . . . . .	1 311.2	1 178.3	1 187.0	936.0	888.5	10
30536	Molded packings and seals . . . . .	920.7	900.9	850.6	702.7	687.7	7
30537	Metallic gaskets and machined seals . . . . .	588.4	555.0	516.1	478.9	517.8	8
30538	Axial mechanical face seals . . . . .	516.4	475.9	357.3	210.5	214.9	27
30539	Rotary oil seals . . . . .	683.7	637.3	584.4	497.1	493.5	3
30530	Gaskets, packing, and sealing devices, n.s.k. . . . .	277.4	317.3	262.6	361.3	247.5	19
3061–30610	Mechanical rubber goods . . . . .	5 995.6	5 842.6	5 301.6	4 873.9	4 476.8	5
30611	Molded rubber mechanical goods, automotive . . . . .	2 363.1	2 240.8	2 100.9	1 854.2	1 685.6	5
30612	Molded rubber mechanical goods, transportation, except automotive (including off-highway) . . . . .	586.0	533.7	452.1	434.9	315.4	26
30613	Other molded rubber mechanical goods . . . . .	1 263.5	1 315.7	1 112.7	916.9	964.1	14
30614	Extruded rubber mechanical goods, automotive (except tubing) . . . . .	883.7	813.6	836.9	782.9	721.7	1
30615	Other extruded rubber mechanical goods, except automotive . . . . .	467.7	517.9	419.3	440.7	429.3	24
30616	Lathe-cut rubber mechanical goods, automotive . . . . .	80.5	79.6	76.1	74.2	67.6	1
30617	Other lathe-cut rubber mechanical goods, except automotive . . . . .	44.2	45.3	46.9	39.7	50.0	1
30610	Mechanical rubber goods, n.s.k. . . . .	306.8	295.9	256.6	330.2	243.1	9
3069–30690	Fabricated rubber products, n.e.c. . . . .	7 875.4	7 720.3	7 384.2	7 178.5	6 600.1	4
30693	Sponge, expanded and foam rubber products . . . . .	1 344.6	1 340.5	1 263.3	1 038.6	1 001.8	8
30694	Rubber floor and wall coverings . . . . .	638.7	587.7	555.9	504.3	438.9	5
30695	Prophylactics . . . . .	(D)	(D)	(D)	(D)	(D)	(X)
30696	Shoe products, rubber, elastomer resin . . . . .	134.5	130.5	130.7	156.7	140.0	3
30698	Rubber druggist and medical sundries, including household gloves . . . . .	(D)	(D)	(D)	(D)	(D)	(X)
30699	Compounds or mixtures for sale or interplant transfer . . . . .	1 384.9	1 371.7	1 277.1	1 247.1	1 210.2	11
3069C	Industrial rubber products, n.e.c. . . . .	1 768.3	1 652.6	1 563.5	1 358.8	1 239.7	9
3069D	Rubber coated fabrics and rubber clothing . . . . .	302.5	364.1	393.9	331.2	348.7	27
3069E	Other rubber goods . . . . .	815.5	882.4	893.5	928.3	907.1	13
30690	Fabricated rubber products, n.e.c., n.s.k. . . . .	692.0	629.6	605.2	812.5	565.8	8
3081–30810	Unsupported plastics film and sheet . . . . .	14 376.4	14 218.0	12 649.5	11 391.9	11 078.7	2
30810	Plastics film and sheet, unsupported . . . . .	14 376.4	14 218.0	12 649.5	11 391.9	11 078.7	2
3082–30820	Unsupported plastics profile shapes . . . . .	4 465.2	4 320.0	4 018.0	3 611.9	3 344.2	4
30820	Plastics unsupported rods, tubes, profiles, and other shapes . . . . .	4 465.2	4 320.0	4 018.0	3 611.9	3 344.2	4
3083–30830	Laminated plastics plate and sheet . . . . .	2 618.0	2 579.4	2 411.2	2 283.1	2 134.9	3
30830	Plastics laminates (excluding flexible packaging) . . . . .	2 618.0	2 579.4	2 411.2	2 283.1	2 134.9	3
3084–30840	Plastics pipe . . . . .	3 861.2	3 690.2	3 474.3	2 784.8	2 394.1	5
30840	Plastics pipe . . . . .	3 861.2	3 690.2	3 474.3	2 784.8	2 394.1	5
3085–30850	Plastics bottles . . . . .	6 369.2	6 324.8	5 600.5	5 112.2	4 577.8	3
30850	Plastics bottles . . . . .	6 369.2	6 324.8	5 600.5	5 112.2	4 577.8	3
3086–30860	Plastics foam products . . . . .	12 017.2	11 186.2	10 812.6	10 016.9	9 317.5	3
30861	Transportation plastics foam products . . . . .	2 133.4	1 960.4	2 006.0	1 636.3	1 567.3	5
30862	Packaging . . . . .	1 991.5	1 882.5	1 841.2	1 794.3	1 659.4	5
30863	Building and construction . . . . .	2 322.2	1 980.3	1 696.5	1 280.6	1 177.8	13
30864	Furniture and furnishings . . . . .	2 309.2	2 148.5	2 286.8	2 137.5	1 950.6	5
30865	Consumer and institutional . . . . .	1 768.6	1 718.9	1 601.2	1 700.2	1 667.4	6
30866	Other . . . . .	865.3	784.5	701.0	541.7	628.2	11
30860	Plastics foam products, n.s.k. . . . .	680.8	711.2	679.9	926.3	666.8	8
3087–30870	Custom compound purchased resins . . . . .	6 179.4	5 951.4	5 428.0	4 885.7	4 403.8	3
30870	Custom compounding of purchased resins and color concentrates . . . . .	6 179.4	5 951.4	5 428.0	4 885.7	4 403.8	3
3088–30880	Plastics plumbing fixtures . . . . .	1 685.2	1 600.7	1 434.2	1 348.0	1 149.5	5
30880	Plastics plumbing fixtures <sup>3</sup> . . . . .	1 685.2	1 600.7	1 434.2	1 348.0	1 149.5	5

See footnotes at end of table.

**Table 1. Value of Shipments for Product Classes: 1992 to 1996—Con.**

[For meaning of abbreviations and symbols and explanation of terms, see introductory text]

Industry and product class code	Description	Value of product shipments (million dollars)					Standard error of estimate <sup>1</sup> (percent) for column—
		1996	1995	1994	1993	1992	
		A	B	C	D	E	
<b>30</b>	<b>RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS—Con.</b>						
<b>3089–30891</b>	<b>Plastics products, n.e.c.</b> .....	<b>57 898.1</b>	<b>55 453.0</b>	<b>51 783.1</b>	<b>46 538.1</b>	<b>42 858.7</b>	<b>2</b>
30891	Transportation fabricated plastics products (except foam and reinforced plastics).....	11 090.0	10 766.8	10 655.3	9 016.0	8 167.8	3
30892	Electrical and electronic fabricated plastics (except foam and reinforced plastics).....	4 857.6	4 574.2	4 006.8	3 386.6	3 244.9	6
30893	Industrial machinery plastics products, except foam.....	1 215.8	1 280.5	1 161.5	1 066.9	933.4	7
30894	Plastics packaging (except film and sheet, foam, and bottles).....	7 707.0	7 600.9	6 804.1	5 987.1	6 048.7	3
30895	Plastics dinnerware, tableware, kitchenware, and oven/microwave ware (except foam and cups).....	1 563.9	1 629.7	1 407.6	1 238.3	1 298.8	4
30896	Consumer, institutional, and commercial fabricated plastics products (except foam and wire coated), n.e.c.....	12 955.3	12 044.2	11 460.2	9 946.4	9 145.5	3
30897	Plastics furniture components and furnishings (excluding foam and reinforced plastics).....	819.8	929.3	919.9	708.4	732.0	9
30898	Building and construction fabricated plastics products, except foam, plumbing fixtures, hardware, or reinforced plastics.....	6 481.6	6 011.7	5 457.2	4 968.5	4 290.9	4
30899	Plastics shoe products, including taps, soles, slabs, and quarterlinings.....	338.2	254.5	165.4	102.5	115.7	33
3089A	Reinforced and fiberglass plastics products, n.e.c.....	5 330.7	5 020.8	4 761.0	4 266.7	3 878.8	3
30890	Plastics products, n.e.c., n.s.k.....	5 538.2	5 340.3	4 984.1	5 850.6	5 002.3	4
<b>31</b>	<b>LEATHER AND LEATHER PRODUCTS</b>						
<b>3111–31116</b>	<b>Leather tanning and finishing</b> .....	<b>3 184.3</b>	<b>3 137.6</b>	<b>3 064.3</b>	<b>3 217.9</b>	<b>2 951.5</b>	<b>3</b>
31116	Finished and unfinished leather.....	2 868.7	2 809.6	2 700.0	2 789.0	2 632.0	3
31119	Contract and commission receipts for tanning or finishing leather owned by others.....	179.7	189.6	152.4	146.6	186.3	10
31110	Leather tanning and finishing, n.s.k.....	135.8	138.3	211.8	282.3	133.2	16
<b>3131–31310</b>	<b>Boot and shoe cut stock and findings</b> .....	<b>317.4</b>	<b>322.7</b>	<b>333.3</b>	<b>329.8</b>	<b>315.1</b>	<b>14</b>
31310	Boot and shoe cut stock and findings.....	317.4	322.7	333.3	329.8	315.1	14
<b>3142–31420</b>	<b>House slippers</b> .....	<b>115.8</b>	<b>122.0</b>	<b>207.7</b>	<b>256.2</b>	<b>258.8</b>	<b>(A)</b>
31420	House slippers.....	115.8	122.0	207.7	256.2	258.8	(A)
<b>3143–31430</b>	<b>Men's footwear, except athletic</b> .....	<b>1 923.7</b>	<b>1 926.1</b>	<b>2 040.1</b>	<b>1 969.8</b>	<b>1 806.6</b>	<b>10</b>
31430	Men's footwear, except athletic <sup>3</sup> .....	1 923.7	1 926.1	2 040.1	1 969.8	1 806.6	10
<b>3144–31440</b>	<b>Women's footwear, except athletic</b> .....	<b>735.1</b>	<b>959.4</b>	<b>1 190.3</b>	<b>1 187.6</b>	<b>1 228.6</b>	<b>11</b>
31440	Women's footwear, except athletic <sup>3</sup> .....	735.1	959.4	1 190.3	1 187.6	1 228.6	11
<b>3149–31490</b>	<b>Footwear, except rubber, n.e.c.</b> .....	<b>353.6</b>	<b>394.1</b>	<b>300.8</b>	<b>293.2</b>	<b>314.2</b>	<b>16</b>
31490	Footwear, except rubber, n.e.c. <sup>3</sup> .....	353.6	394.1	300.8	293.2	314.2	16
<b>3151–31510</b>	<b>Leather gloves and mittens</b> .....	<b>125.1</b>	<b>93.5</b>	<b>114.7</b>	<b>114.8</b>	<b>114.0</b>	<b>30</b>
31510	Gloves and mittens, all leather <sup>3</sup> .....	125.1	93.5	114.7	114.8	114.0	30
<b>3161–31610</b>	<b>Luggage</b> .....	<b>829.6</b>	<b>777.7</b>	<b>879.8</b>	<b>814.3</b>	<b>863.6</b>	<b>17</b>
31610	Suitcases, briefcases, bags, and musical instrument cases.....	829.6	777.7	879.8	814.3	863.6	17
<b>3171–31710</b>	<b>Women's and children's handbags and purses</b> .....	<b>300.7</b>	<b>315.3</b>	<b>327.9</b>	<b>365.7</b>	<b>410.7</b>	<b>24</b>
31710	Women's and children's handbags and purses.....	300.7	315.3	327.9	365.7	410.7	24
<b>3172–31720</b>	<b>Personal leather goods, n.e.c.</b> .....	<b>384.4</b>	<b>438.3</b>	<b>504.7</b>	<b>502.8</b>	<b>522.3</b>	<b>11</b>
31720	Personal leather goods, n.e.c.....	384.4	438.3	504.7	502.8	522.3	11
<b>3199–31990</b>	<b>Leather goods, n.e.c.</b> .....	<b>521.0</b>	<b>512.1</b>	<b>542.6</b>	<b>567.7</b>	<b>497.8</b>	<b>11</b>
31990	Leather products, n.e.c.....	521.0	512.1	542.6	567.7	497.8	11
<b>32</b>	<b>STONE, CLAY, AND GLASS PRODUCTS</b>						
<b>3211–32113</b>	<b>Flat glass</b> .....	<b>2 554.6</b>	<b>2 474.0</b>	<b>2 474.2</b>	<b>2 150.8</b>	<b>1 994.0</b>	<b>1</b>
32113	Laminated glass <sup>2</sup> ..... (D)	(D)	(D)	(D)	(D)	(D)	(X)
32114	Other glass products..... (D)	(D)	(D)	(D)	(D)	(D)	(X)
32115	Flat glass <sup>3</sup> .....	1 769.9	1 733.1	1 625.7	1 422.0	1 400.7	1
32110	Flat glass, n.s.k.....	.9	.7	.3	.1	.6	61
<b>3221–32210</b>	<b>Glass containers</b> .....	<b>4 270.7</b>	<b>4 342.5</b>	<b>4 650.4</b>	<b>4 782.3</b>	<b>4 816.2</b>	<b>1</b>
32210	Glass containers.....	4 270.7	4 342.5	4 650.4	4 782.3	4 816.2	1
<b>3229–32293</b>	<b>Pressed and blown glass, n.e.c.</b> .....	<b>5 468.9</b>	<b>5 154.5</b>	<b>4 746.2</b>	<b>4 339.7</b>	<b>4 088.2</b>	<b>2</b>
32293	Glass fiber, textile-type.....	1 864.7	1 731.2	1 522.8	1 357.5	1 264.4	1
32295	Machine-made table, kitchen, art, and novelty glassware <sup>2 3</sup> .....	956.3	908.5	881.3	796.8	784.8	1
32296	Machine-made lighting, automotive, and electronic glassware <sup>2 3</sup> .....	1 592.3	1 511.6	1 397.7	1 270.6	1 157.3	1
32297	All other machine-made glassware <sup>2 3</sup> .....	716.6	681.7	653.0	640.2	646.4	7
32298	Handmade pressed and blown glassware <sup>2 3</sup> ..... (S)	(S)	(S)	(S)	119.9	118.5	(X)
32290	Pressed and blown glass, n.e.c., n.s.k.....	177.0	152.2	139.2	154.6	116.7	9
<b>3231–32311</b>	<b>Products of purchased glass</b> .....	<b>8 897.9</b>	<b>7 986.6</b>	<b>7 793.5</b>	<b>7 456.3</b>	<b>6 885.4</b>	<b>3</b>
32311	Machine-made pressed and blown glassware <sup>2 3</sup> .....	1 330.2	1 330.9	1 247.5	1 211.5	1 153.1	4
32312	Handmade pressed and blown glassware <sup>2 3</sup> ..... (S)	(S)	(S)	(S)	146.5	151.2	(X)
32313	Laminated glass <sup>2</sup> ..... (D)	(D)	(D)	(D)	(D)	(D)	(X)
32315	Mirrors (decorated or undecorated).....	1 150.0	949.6	912.7	846.9	803.3	1
32318	Other glass products..... (D)	(D)	(D)	(D)	(D)	(D)	(X)
32310	Products of purchased glass, n.s.k.....	598.4	501.0	476.0	514.1	380.2	8
<b>3241–32410</b>	<b>Cement, hydraulic</b> .....	<b>5 650.1</b>	<b>5 172.0</b>	<b>4 698.6</b>	<b>4 050.6</b>	<b>3 928.6</b>	<b>4</b>
32410	Cement, hydraulic (including cost of shipping containers).....	5 650.1	5 172.0	4 698.6	4 050.6	3 928.6	4
<b>3251–32510</b>	<b>Brick and structural clay tile</b> .....	<b>1 293.4</b>	<b>1 175.6</b>	<b>1 213.0</b>	<b>1 124.9</b>	<b>1 053.7</b>	<b>5</b>
32510	Brick and clay tile <sup>3</sup> .....	1 293.4	1 175.6	1 213.0	1 124.9	1 053.7	5
<b>3253–32530</b>	<b>Ceramic wall and floor tile</b> .....	<b>839.2</b>	<b>790.3</b>	<b>734.6</b>	<b>738.6</b>	<b>677.7</b>	<b>9</b>
32530	Clay floor and wall tile <sup>3</sup> .....	839.2	790.3	734.6	738.6	677.7	9
<b>3255–32550</b>	<b>Clay refractories</b> .....	<b>950.6</b>	<b>965.7</b>	<b>895.6</b>	<b>794.5</b>	<b>779.1</b>	<b>6</b>
32550	Clay refractories <sup>3</sup> .....	950.6	965.7	895.6	794.5	779.1	6
<b>3259–32591</b>	<b>Structural clay products, n.e.c.</b> .....	<b>171.0</b>	<b>144.7</b>	<b>136.7</b>	<b>108.5</b>	<b>122.5</b>	<b>14</b>
32591	Vitrified clay sewer pipe and fittings <sup>3</sup> .....	51.2	45.9	45.2	36.3	42.9	9
32592	Other structural clay products, n.e.c. (except clay refractories).....	67.1	66.5	64.9	51.3	63.5	1
32590	Structural clay products, n.e.c., n.s.k.....	52.7	32.3	26.6	20.9	16.2	43
<b>3261–32610</b>	<b>Vitreous plumbing fixtures</b> .....	<b>977.0</b>	<b>916.8</b>	<b>924.3</b>	<b>861.9</b>	<b>807.2</b>	<b>1</b>
32610	Vitreous plumbing fixtures, accessories, and fittings.....	977.0	916.8	924.3	861.9	807.2	1

See footnotes at end of table.

**Table 1. Value of Shipments for Product Classes: 1992 to 1996—Con.**

[For meaning of abbreviations and symbols and explanation of terms, see introductory text]

Industry and product class code	Description	Value of product shipments (million dollars)					Standard error of estimate <sup>1</sup> (percent) for column—
		1996	1995	1994	1993	1992	
		A	B	C	D	E	
<b>32</b>	<b>STONE, CLAY, AND GLASS PRODUCTS—Con.</b>						
<b>3262–32620</b>	<b>Vitreous china table and kitchenware</b> .....	<b>330.6</b>	<b>339.8</b>	<b>337.9</b>	<b>333.8</b>	<b>290.6</b>	<b>1</b>
	Vitreous china and porcelain table and kitchenware (including bone and feldspar) for household, hotel, or commercial use .....	330.6	339.8	337.9	333.8	290.6	1
<b>3263–32630</b>	<b>Semivitreous table and kitchenware</b> .....	<b>70.0</b>	<b>49.5</b>	<b>57.3</b>	<b>55.2</b>	<b>45.4</b>	<b>10</b>
	Earthenware table and kitchenware (semivitreous) .....	70.0	49.5	57.3	55.2	45.4	10
<b>3264–32640</b>	<b>Porcelain electrical supplies</b> .....	<b>1 630.3</b>	<b>1 491.4</b>	<b>1 232.9</b>	<b>908.4</b>	<b>886.9</b>	<b>17</b>
	Porcelain, steatite, and other ceramic electrical products .....	1 630.3	1 491.4	1 232.9	908.4	886.9	17
<b>3269–32690</b>	<b>Pottery products, n.e.c.</b> .....	<b>730.2</b>	<b>639.0</b>	<b>664.7</b>	<b>652.6</b>	<b>601.4</b>	<b>7</b>
	Pottery products, n.e.c. (including china decorating for the trade) .....	730.2	639.0	664.7	652.6	601.4	7
<b>3271–32710</b>	<b>Concrete block and brick</b> .....	<b>2 595.7</b>	<b>2 221.2</b>	<b>2 014.3</b>	<b>1 778.6</b>	<b>1 669.9</b>	<b>8</b>
	Concrete brick and block .....	2 595.7	2 221.2	2 014.3	1 778.6	1 669.9	8
<b>3272–32720</b>	<b>Concrete products, n.e.c.</b> .....	<b>7 937.9</b>	<b>7 118.3</b>	<b>6 354.6</b>	<b>5 929.0</b>	<b>5 586.7</b>	<b>4</b>
	Concrete pipe .....	1 741.1	1 679.2	1 370.9	1 344.1	1 234.5	7
	Precast concrete products .....	3 782.7	3 478.8	3 262.0	2 843.3	2 694.2	4
	Prestressed concrete products .....	1 679.4	1 300.5	1 029.4	926.2	914.3	11
	Concrete products, n.e.c., n.s.k. ....	734.7	659.7	692.4	815.5	743.7	10
<b>3273–32730</b>	<b>Ready-mixed concrete</b> .....	<b>14 801.3</b>	<b>13 706.6</b>	<b>12 584.5</b>	<b>11 539.7</b>	<b>10 911.5</b>	<b>2</b>
	Ready-mixed concrete .....	14 801.3	13 706.6	12 584.5	11 539.7	10 911.5	2
<b>3274–32740</b>	<b>Lime</b> .....	<b>750.6</b>	<b>768.1</b>	<b>769.1</b>	<b>853.2</b>	<b>850.9</b>	<b>23</b>
	Lime (including cost of containers) .....	750.6	768.1	769.1	853.2	850.9	23
<b>3275–32751</b>	<b>Gypsum products</b> .....	<b>3 712.2</b>	<b>3 220.8</b>	<b>2 728.7</b>	<b>2 132.9</b>	<b>1 948.0</b>	<b>8</b>
	Gypsum building materials .....	3 372.7	2 883.2	2 388.9	1 789.6	1 614.3	9
	Other gypsum products .....	287.6	263.6	294.4	290.5	291.8	7
	Gypsum products, n.s.k. ....	51.9	74.0	45.4	52.8	41.9	16
<b>3281–32811</b>	<b>Cut stone and stone products</b> .....	<b>1 307.2</b>	<b>1 050.5</b>	<b>1 023.7</b>	<b>981.3</b>	<b>944.5</b>	<b>17</b>
	Dressed dimension granite (including gneiss, syenite, diorite, and cut granite) ..	695.3	552.0	519.8	446.7	451.4	30
	Dressed dimension limestone (including dolomite, travertine, calcareous, tufa, and cut limestone) .....	169.5	153.8	142.8	121.2	122.9	12
	Dressed dimension marble and other stone .....	274.1	208.3	208.4	179.3	160.7	24
	Cut stone and stone products, n.s.k. ....	168.2	136.4	152.8	234.1	209.5	21
<b>3291–32915</b>	<b>Abrasive products</b> .....	<b>3 988.9</b>	<b>3 751.5</b>	<b>3 574.7</b>	<b>3 315.4</b>	<b>3 268.2</b>	<b>9</b>
	Nonmetallic sized grains, powders, and flour abrasives (including graded products only) .....	501.0	515.6	613.6	591.7	556.6	26
	Nonmetallic abrasive products (including diamond abrasives) .....	847.2	806.2	834.1	706.0	754.9	2
	Nonmetallic coated abrasive products and buffing wheels, polishing wheels, and laps .....	1 804.4	1 616.9	1 648.2	1 441.9	1 540.1	2
	Metal abrasives (including scouring pads) .....	730.4	686.8	339.7	339.6	294.1	43
	Abrasive products, n.s.k. ....	105.9	126.1	139.1	236.3	122.5	13
<b>3292–32922</b>	<b>Asbestos products</b> .....	—	—	—	—	<b>68.6</b>	<b>(X)</b>
	Asbestos friction materials .....	—	—	—	—	57.0	(X)
	Other asbestos products .....	—	—	—	—	9.4	(X)
	Asbestos products, n.s.k. ....	—	—	—	—	2.2	(X)
<b>3295–32950</b>	<b>Minerals, ground or treated</b> .....	<b>1 863.2</b>	<b>1 854.6</b>	<b>1 762.8</b>	<b>1 761.3</b>	<b>1 700.9</b>	<b>8</b>
	Minerals and earths, ground or otherwise treated .....	1 863.2	1 854.6	1 762.8	1 761.3	1 700.9	8
<b>3296–32961</b>	<b>Mineral wool</b> .....	<b>3 756.0</b>	<b>3 791.9</b>	<b>3 565.2</b>	<b>3 169.8</b>	<b>3 075.4</b>	<b>2</b>
	Mineral wool for thermal and acoustical envelope insulation (for insulating homes, commercial and industrial buildings) .....	2 810.3	2 789.6	2 500.3	2 117.3	2 042.6	2
	Mineral wool for industrial, equipment, and appliance insulation .....	868.4	946.0	939.5	891.3	889.2	5
	Mineral wool, n.s.k. ....	77.3	56.3	125.5	161.1	143.6	23
<b>3297–32970</b>	<b>Nonclay refractories</b> .....	<b>1 376.8</b>	<b>1 319.4</b>	<b>1 196.1</b>	<b>1 182.0</b>	<b>1 201.1</b>	<b>8</b>
	Nonclay refractories (except dead-burned magnesia) <sup>3</sup> .....	1 376.8	1 319.4	1 196.1	1 182.0	1 201.1	8
<b>3299–32990</b>	<b>Nonmetallic mineral products, n.e.c.</b> .....	<b>920.2</b>	<b>857.0</b>	<b>852.6</b>	<b>794.8</b>	<b>727.5</b>	<b>6</b>
	Other nonmetallic mineral products, n.e.c. ....	920.2	857.0	852.6	794.8	727.5	6
<b>33</b>	<b>PRIMARY METAL INDUSTRIES</b>						
<b>3312–33121</b>	<b>Blast furnaces and steel mills</b> .....	<b>54 276.6</b>	<b>54 882.2</b>	<b>50 704.6</b>	<b>44 781.5</b>	<b>42 167.7</b>	<b>1</b>
	Coke oven and blast furnace products, including ferroalloys <sup>4</sup> .....	1 932.8	1 961.3	1 902.0	1 796.4	1 740.4	1
	Steel ingot and semifinished shapes <sup>3</sup> .....	4 542.1	4 578.2	3 879.0	3 975.3	3 677.8	3
	Hot-rolled sheet and strip, including tin mill products <sup>3</sup> .....	22 135.7	23 010.5	21 543.9	18 499.1	17 284.1	1
	Hot-rolled bars and bar shapes, plates, structural shapes, and piling <sup>3</sup> .....	12 784.2	13 066.8	11 748.0	10 346.8	10 032.5	3
	Steel wire (made in steel mills) (see also code 33155) <sup>2,3</sup> .....	252.7	300.8	387.0	294.1	352.1	1
	Steel pipe and tubes (made in steel mills) (see also code 33170) <sup>2,3</sup> .....	2 976.8	2 677.5	2 139.4	1 905.5	1 692.9	1
	Cold-rolled steel sheet and strip (made in steel mills) (see also code 33167) <sup>2,3</sup> ..	7 976.1	7 676.8	7 673.8	6 698.1	6 151.0	1
	Cold-finished steel bars and bar shapes (made in steel mills) (see also code 33168) <sup>2,3</sup> .....	831.5	837.9	715.0	634.8	657.7	4
	Seamless rolled ring forgings, ferrous (made in steel mills) (see also code 34627) <sup>2</sup> .....	125.1	96.6	79.7	77.6	77.3	46
	Open die or smith forgings (hammer or press), ferrous (made in steel mills) (see also code 34628) <sup>2</sup> .....	162.0	166.1	157.0	116.4	114.0	1
	Other steel mill products, including steel rails, except wire products <sup>3</sup> .....	531.3	458.5	465.4	417.2	382.8	2
	Blast furnaces and steel mills, n.s.k. ....	26.3	51.2	14.7	20.0	5.2	3
<b>3313–33132</b>	<b>Electrometallurgical products<sup>4</sup></b> .....	<b>1 205.1</b>	<b>1 121.2</b>	<b>988.8</b>	<b>985.5</b>	<b>1 013.8</b>	<b>6</b>
	Ferrosilicon .....	(D)	(D)	(D)	(D)	(D)	(X)
	Ferrosilicon .....	270.3	238.0	240.0	294.6	287.2	6
	Other ferroalloys .....	(D)	(D)	(D)	(D)	(D)	(X)
	Electrometallurgical products, n.s.k. ....	4.1	5.5	5.2	12.7	6.5	1

See footnotes at end of table.

**Table 1. Value of Shipments for Product Classes: 1992 to 1996—Con.**

[For meaning of abbreviations and symbols and explanation of terms, see introductory text]

Industry and product class code	Description	Value of product shipments (million dollars)					Standard error of estimate <sup>1</sup> (percent) for column—
		1996	1995	1994	1993	1992	
		A	B	C	D	E	
<b>33</b>	<b>PRIMARY METAL INDUSTRIES—Con.</b>						
<b>3315–33151</b>	<b>Steel wire and related products</b>	<b>5 395.8</b>	<b>5 671.7</b>	<b>5 394.7</b>	<b>4 916.4</b>	<b>4 519.5</b>	<b>13</b>
	Noninsulated ferrous wire rope, cable, and strand (made in wiredrawing plants) (see also code 34961) <sup>2, 3</sup>	918.2	1 022.0	1 027.5	955.8	937.3	3
33152	Steel nails, staples, tacks, spikes, and brads <sup>3</sup>	941.1	1 170.1	936.7	707.4	645.4	59
33155	Steel wire (not made in steel mills) (see also code 33125) <sup>2, 3</sup>	1 966.4	1 995.5	2 016.0	1 981.5	1 760.7	13
33156	Fencing and fence gates (made in wiredrawing plants) (see also code 34966) <sup>2, 3</sup>	367.6	364.3	362.4	373.8	357.4	5
33157	Ferrous wire cloth and other ferrous woven wire products (made in wiredrawing plants) (see also code 34964) <sup>2</sup>	124.2	123.9	114.3	109.9	109.9	5
33159	Other fabricated ferrous wire products (except springs) (made in wiredrawing plants) (see also code 34968) <sup>2</sup>	952.7	879.6	815.8	654.1	627.4	27
33150	Steel wire and related products, n.s.k.	125.5	116.3	122.1	133.9	81.5	7
<b>3316–33167</b>	<b>Cold-finishing of steel shapes</b>	<b>5 246.9</b>	<b>5 488.5</b>	<b>5 543.6</b>	<b>5 258.4</b>	<b>4 564.8</b>	<b>5</b>
	Cold-rolled steel sheet and strip (not made in steel mills) (see also code 33127) <sup>2, 3</sup>	3 737.5	4 010.1	4 008.3	3 766.9	3 311.4	3
33168	Cold-finished steel bars and bar shapes (not made in steel mills) (see also code 33128) <sup>2, 3</sup>	1 405.4	1 354.9	1 418.8	1 340.9	1 176.2	16
33160	Cold-finishing of steel shapes, n.s.k.	104.0	123.5	116.6	150.6	77.2	13
<b>3317–33170</b>	<b>Steel pipe and tubes</b>	<b>6 373.6</b>	<b>6 304.2</b>	<b>6 037.6</b>	<b>5 242.4</b>	<b>4 879.7</b>	<b>3</b>
	Steel pipe and tubes (not made in steel mills) (see also code 33126) <sup>2, 3</sup>	6 373.6	6 304.2	6 037.6	5 242.4	4 879.7	3
<b>3321–33210</b>	<b>Gray and ductile iron foundries</b>	<b>10 490.1</b>	<b>9 910.3</b>	<b>9 444.6</b>	<b>8 278.1</b>	<b>7 463.2</b>	<b>2</b>
	Ductile iron pressure pipe and fittings	1 263.4	1 259.9	1 269.8	1 087.1	1 125.5	2
33212	Other ductile iron castings	3 022.7	2 890.1	2 670.5	1 973.6	1 778.4	5
33216	Molds and stools for heavy steel ingots	44.2	30.3	58.2	135.9	112.1	9
33217	Cast iron pressure pipe and fittings	35.8	35.8	51.4	50.7	46.8	27
33218	Cast iron soil pipe and fittings (including special fittings)	185.1	163.3	172.2	219.2	189.1	8
33219	Other gray iron castings	5 677.1	5 282.9	5 008.7	4 425.2	3 908.9	2
33210	Gray and ductile iron foundries, n.s.k.	261.8	248.0	213.8	386.4	302.4	15
<b>3322–33220</b>	<b>Malleable iron foundries</b>	<b>344.2</b>	<b>341.1</b>	<b>325.7</b>	<b>309.9</b>	<b>301.9</b>	<b>4</b>
	Standard malleable iron castings	208.1	208.4	195.1	185.4	188.7	5
33222	Pearlitic malleable iron castings	131.0	129.4	129.5	115.5	105.5	1
33220	Malleable iron foundries, n.s.k.	5.1	3.2	1.1	9.0	7.7	(A)
<b>3324–33240</b>	<b>Steel investment foundries</b>	<b>2 157.3</b>	<b>1 885.4</b>	<b>1 572.6</b>	<b>1 582.7</b>	<b>1 628.9</b>	<b>9</b>
	Steel investment castings	2 157.3	1 885.4	1 572.6	1 582.7	1 628.9	9
<b>3325–33250</b>	<b>Steel foundries, n.e.c.</b>	<b>2 599.8</b>	<b>2 569.8</b>	<b>2 360.8</b>	<b>2 115.5</b>	<b>2 011.4</b>	<b>4</b>
	Carbon steel castings, except investment	1 099.9	1 104.0	1 048.7	944.4	879.8	6
33252	High alloy steel castings, except investment	650.8	615.3	513.7	480.5	432.2	2
33255	Other alloy steel castings, except investment	684.4	699.7	620.7	474.3	487.4	12
33250	Steel foundries, n.e.c., n.s.k.	164.7	150.8	177.8	216.4	212.0	14
<b>3331–33310</b>	<b>Primary copper</b>	<b>5 066.1</b>	<b>6 855.5</b>	<b>5 241.4</b>	<b>4 792.4</b>	<b>4 827.0</b>	<b>2</b>
	Copper smelter products	2 207.9	3 168.6	2 248.6	1 984.5	1 907.3	1
33312	Refined primary copper and copper-base alloy (see also code 33412) <sup>2</sup>	2 858.1	3 686.8	2 992.7	2 805.9	2 917.5	3
33310	Primary copper, n.s.k.	.1	.1	.1	2.1	2.2	1
<b>3334–33347</b>	<b>Primary aluminum</b>	<b>5 628.3</b>	<b>6 032.7</b>	<b>4 754.6</b>	<b>4 554.3</b>	<b>5 028.0</b>	<b>1</b>
	Aluminum ingot (produced in primary aluminum reduction plants) (see also codes 33417 and 33533) <sup>2</sup>	4 318.8	4 501.8	3 483.1	3 385.2	4 032.3	1
33348	Aluminum extrusion billet (produced in primary aluminum reduction plants) (see also codes 33418 and 33534) <sup>2</sup>	1 302.4	1 527.6	1 271.1	1 138.5	992.7	1
33340	Primary aluminum, n.s.k.	7.1	3.3	.4	30.7	2.9	52
<b>3339–33390</b>	<b>Primary nonferrous metals, n.e.c.</b>	<b>4 183.3</b>	<b>4 044.4</b>	<b>3 562.7</b>	<b>2 788.1</b>	<b>2 873.1</b>	<b>3</b>
	Zinc residues and other zinc smelter products (D)	(D)	(D)	(D)	(D)	(D)	(X)
33392	Refined primary zinc (see also code 33414) <sup>2</sup> (D)	(D)	(D)	(D)	(D)	(D)	(X)
33395	Precious metals and precious metal alloys (see also code 33415) <sup>2</sup>	1 005.5	1 397.8	1 358.3	889.0	698.4	5
33398	Other primary nonferrous metals, n.e.c.	2 587.2	2 113.5	1 724.2	1 356.9	1 555.7	4
33390	Primary nonferrous metals, n.e.c., n.s.k.	81.8	70.1	63.5	143.0	121.3	44
<b>3341–33417</b>	<b>Secondary nonferrous metals</b>	<b>6 682.6</b>	<b>7 133.3</b>	<b>6 671.5</b>	<b>5 445.7</b>	<b>5 707.9</b>	<b>4</b>
	Copper (see also code 33312) <sup>2</sup>	805.6	823.9	769.4	695.6	838.9	13
33413	Lead <sup>2</sup>	771.5	707.6	644.5	479.3	574.3	6
33414	Zinc (see also code 33392) <sup>2</sup>	275.1	291.7	271.1	269.9	286.0	6
33415	Precious metals and precious metal alloys (see also code 33395) <sup>2</sup>	1 179.3	1 202.8	1 426.3	1 382.0	1 343.3	5
33416	Other secondary nonferrous metals <sup>2</sup>	487.2	497.4	517.7	95.3	106.7	17
33417	Aluminum ingot (produced by secondary smelters) (see also codes 33347 and 33553) <sup>2</sup>	2 692.3	3 110.8	2 687.8	2 061.2	1 979.9	5
33418	Aluminum extrusion billet (produced by secondary smelters) (see also codes 33348 and 33554) <sup>2</sup>	282.9	323.5	229.1	129.8	143.8	22
33410	Secondary nonferrous metals, n.s.k.	188.6	175.6	125.5	332.6	435.0	51
<b>3351–33510</b>	<b>Copper rolling and drawing</b>	<b>8 116.1</b>	<b>7 692.2</b>	<b>6 678.8</b>	<b>5 419.1</b>	<b>5 496.4</b>	<b>11</b>
	Copper wire, bare and tinned (nonelectrical)	546.8	511.9	473.7	470.2	227.9	25
33513	Copper and copper-base alloy rod, bar, and shapes	2 890.7	2 695.5	2 354.4	2 105.4	2 312.1	6
33514	Copper and copper-base alloy sheet, strip, and plate	2 510.0	2 362.9	2 135.9	1 220.9	1 352.7	34
33515	Copper and copper-base alloy pipe and tube	2 137.3	2 094.7	1 693.6	1 535.7	1 531.7	4
33510	Copper rolling and drawing, n.s.k.	31.2	27.2	21.1	86.9	72.0	28
<b>3353–33530</b>	<b>Aluminum sheet, plate, and foil</b>	<b>11 452.6</b>	<b>12 624.1</b>	<b>9 549.1</b>	<b>8 902.4</b>	<b>9 533.8</b>	<b>1</b>
	Aluminum plate (thickness of 0.25 inches or more) (including continuous cast)	797.0	792.6	840.6	503.1	579.8	7
33532	Aluminum sheet and strip (including continuous cast)	9 740.4	10 895.2	8 008.6	7 646.6	8 261.1	1
33533	Plain aluminum foil (D)	(D)	(D)	(D)	(D)	(D)	(X)
33534	Aluminum welded tube (D)	(D)	(D)	(D)	(D)	(D)	(X)
33530	Aluminum sheet, plate, and foil, n.s.k.	27.6	16.2	8.3	83.8	–	1
<b>3354–33540</b>	<b>Aluminum extruded products</b>	<b>5 034.8</b>	<b>5 111.5</b>	<b>4 578.6</b>	<b>3 859.7</b>	<b>3 758.2</b>	<b>4</b>
	Extruded aluminum rod, bar, and other extruded shapes	4 052.4	4 153.3	3 665.9	3 042.2	2 973.5	4
33542	Extruded and drawn aluminum tube	910.7	890.9	836.9	678.2	538.8	8
33540	Aluminum extruded products, n.s.k.	71.7	67.3	75.8	139.2	245.9	35
<b>3355–33551</b>	<b>Aluminum rolling and drawing, n.e.c.</b>	<b>952.9</b>	<b>1 172.2</b>	<b>1 287.4</b>	<b>1 038.0</b>	<b>1 061.8</b>	<b>4</b>
	Aluminum and aluminum-base alloy wire and cable, except covered or insulated (produced in aluminum rolling mills) (see also code 33571)	(D)	(D)	(D)	(D)	(D)	(X)
33552	Rolled aluminum rod, bar (including continuous cast) (D)	(D)	(D)	(D)	(D)	(D)	(X)
33553	Aluminum ingot (produced in aluminum rolling mills) (see also codes 33347 and 33417) <sup>2, 4</sup>	149.6	255.0	368.1	382.4	413.2	1
33554	Aluminum extrusion billet (produced in aluminum rolling mills) (see also codes 33348 and 33418) <sup>2, 4</sup>	177.7	237.1	249.8	162.8	152.4	1
33550	Aluminum rolling and drawing, n.e.c., n.s.k.	35.3	30.0	33.5	41.0	36.9	1

See footnotes at end of table.

**Table 1. Value of Shipments for Product Classes: 1992 to 1996—Con.**

[For meaning of abbreviations and symbols and explanation of terms, see introductory text]

Industry and product class code	Description	Value of product shipments (million dollars)					Standard error of estimate <sup>1</sup> (percent) for column—
		1996	1995	1994	1993	1992	
		A	B	C	D	E	
<b>33</b>	<b>PRIMARY METAL INDUSTRIES—Con.</b>						
<b>3356–33569</b>	<b>Nonferrous rolling and drawing, n.e.c.</b> . . . . .	<b>3 730.9</b>	<b>3 293.6</b>	<b>2 765.1</b>	<b>2 765.2</b>	<b>2 712.7</b>	<b>3</b>
33561	Nickel and nickel-base alloy mill shapes (including nickel-copper alloys) . . . . .	997.4	906.3	694.7	619.1	682.3	1
33562	Titanium and titanium-base alloy mill shapes (excluding wire) . . . . .	1 072.3	688.8	542.3	478.0	501.6	2
33563	Precious metal mill shapes . . . . .	662.8	703.1	601.3	603.3	636.8	7
33569	All other nonferrous metal mill shapes . . . . .	949.6	987.2	897.8	898.3	752.2	6
33560	Nonferrous rolling and drawing, n.e.c., n.s.k. . . . .	48.8	8.2	28.9	166.5	139.8	83
<b>3357–33571</b>	<b>Nonferrous wire and cable, n.e.c.</b> . . . . .	<b>16 360.3</b>	<b>15 450.2</b>	<b>14 185.0</b>	<b>12 760.3</b>	<b>12 275.2</b>	<b>3</b>
33571	Aluminum and aluminum-base alloy wire and cable, except covered or insulated (produced in nonferrous wire drawing plants) (see also code 33551) . . . . .	201.2	193.9	208.4	365.8	383.7	70
33572	Copper and copper-base alloy wire, strand, and cable, (for electrical transmission) . . . . .	633.1	597.7	598.1	512.4	604.3	15
33573	Other bare nonferrous metal wire, made in nonferrous wire drawing plants <sup>2</sup> . . . . .	334.1	313.4	214.2	185.1	173.9	19
33575	Nonferrous wire cloth and other woven wire products (made in nonferrous wire drawing plants) (see also code 34965) <sup>2</sup> . . . . .	(D)	(D)	(D)	(D)	(D)	(X)
33576	Apparatus wire and cord and flexible cord sets (see also code 34966) <sup>2,3</sup> . . . . .	1 002.7	940.4	955.1	709.4	757.2	1
33577	Magnet wire <sup>3</sup> . . . . .	1 406.9	1 500.7	1 223.0	998.7	999.9	5
33578	Power wire and cable <sup>3</sup> . . . . .	1 713.6	1 593.0	1 498.8	1 275.7	1 278.3	11
33579	Fiber optic cable <sup>3</sup> . . . . .	1 945.7	1 617.4	1 404.5	1 300.3	1 069.9	4
3357A	Electronic wire and cable <sup>3</sup> . . . . .	2 753.4	2 716.1	2 419.6	1 957.3	1 821.9	5
3357B	Telephone and telegraph wire and cable <sup>3</sup> . . . . .	1 844.9	1 575.7	1 557.0	1 611.7	1 532.8	1
3357C	Control and signal wire and cable <sup>3</sup> . . . . .	543.3	594.7	482.9	381.8	394.7	8
3357D	Building wire and cable <sup>3</sup> . . . . .	2 684.5	2 723.5	2 660.4	2 079.2	2 083.1	9
3357E	Other wire and cable, n.e.c. <sup>3</sup> . . . . .	1 141.1	949.4	840.5	792.8	645.8	9
33570	Nonferrous wire drawing and insulating, n.s.k. . . . .	(D)	(D)	(D)	(D)	(D)	(X)
<b>3363–33630</b>	<b>Aluminum die-castings</b> . . . . .	<b>3 973.1</b>	<b>3 885.2</b>	<b>3 401.2</b>	<b>2 729.4</b>	<b>2 542.9</b>	<b>15</b>
33630	Aluminum and aluminum-base alloy die-castings . . . . .	3 973.1	3 885.2	3 401.2	2 729.4	2 542.9	15
<b>3364–33640</b>	<b>Nonferrous die-castings, except aluminum</b> . . . . .	<b>1 591.5</b>	<b>1 383.5</b>	<b>1 209.5</b>	<b>1 270.6</b>	<b>1 089.7</b>	<b>17</b>
33640	Nonferrous die-castings (except aluminum) . . . . .	1 591.5	1 383.5	1 209.5	1 270.6	1 089.7	17
<b>3365–33650</b>	<b>Aluminum foundries</b> . . . . .	<b>3 029.6</b>	<b>2 771.2</b>	<b>2 428.8</b>	<b>2 093.2</b>	<b>1 875.3</b>	<b>7</b>
33650	Aluminum and aluminum-base alloy castings (except die-castings) . . . . .	3 029.6	2 771.2	2 428.8	2 093.2	1 875.3	7
<b>3366–33660</b>	<b>Copper foundries</b> . . . . .	<b>819.9</b>	<b>878.2</b>	<b>844.3</b>	<b>695.4</b>	<b>750.4</b>	<b>25</b>
33660	Copper and copper-base alloy castings (except die-castings) . . . . .	819.9	878.2	844.3	695.4	750.4	25
<b>3369–33690</b>	<b>Nonferrous foundries, n.e.c.</b> . . . . .	<b>765.3</b>	<b>618.9</b>	<b>538.3</b>	<b>450.8</b>	<b>468.7</b>	<b>13</b>
33690	Other nonferrous castings, n.e.c. (except die-castings) . . . . .	765.3	618.9	538.3	450.8	468.7	13
<b>3398–33980</b>	<b>Metal heat treating</b> . . . . .	<b>3 091.7</b>	<b>3 225.5</b>	<b>2 551.7</b>	<b>1 921.5</b>	<b>1 887.3</b>	<b>15</b>
33980	Heat treating of metal for the trade <sup>4</sup> . . . . .	3 091.7	3 225.5	2 551.7	1 921.5	1 887.3	15
<b>3399–33991</b>	<b>Primary metal products, n.e.c.</b> . . . . .	<b>2 545.4</b>	<b>2 408.4</b>	<b>2 110.7</b>	<b>1 849.9</b>	<b>1 667.0</b>	<b>7</b>
33991	Metal powders, paste, and flakes . . . . .	1 932.7	1 872.5	1 562.4	1 221.5	1 107.2	8
33992	Primary metal products, n.e.c. . . . .	403.2	351.3	316.0	385.6	404.6	11
33990	Primary metal products, n.e.c., n.s.k. . . . .	209.5	184.6	232.2	242.9	155.1	17
<b>34</b>	<b>FABRICATED METAL PRODUCTS</b>						
<b>3411–34110</b>	<b>Metal cans</b> . . . . .	<b>11 672.6</b>	<b>11 694.3</b>	<b>11 003.4</b>	<b>11 095.3</b>	<b>11 665.3</b>	<b>2</b>
34111	Steel cans and tinware products . . . . .	4 844.4	4 684.2	4 753.5	4 584.6	4 775.0	3
34112	Aluminum cans . . . . .	6 713.1	6 887.1	6 093.5	6 337.7	6 747.0	1
34110	Metal cans, n.s.k. . . . .	115.1	123.0	156.4	173.0	143.2	35
<b>3412–34120</b>	<b>Metal barrels, drums, and pails</b> . . . . .	<b>1 137.7</b>	<b>1 205.9</b>	<b>1 364.7</b>	<b>1 118.1</b>	<b>1 132.2</b>	<b>14</b>
34121	Steel pails <sup>3</sup> . . . . .	244.1	214.3	205.6	214.8	257.3	13
34122	Steel shipping barrels and drums (more than 12 gallon capacity) <sup>3</sup> . . . . .	723.4	857.6	850.7	760.7	753.8	22
34123	All other metal barrels . . . . .	89.6	82.0	52.5	69.0	71.2	20
34120	Metal barrels, drums, and pails, n.s.k. . . . .	80.5	52.0	255.8	73.6	50.0	22
<b>3421–34210</b>	<b>Cutlery</b> . . . . .	<b>2 086.3</b>	<b>1 887.8</b>	<b>1 801.3</b>	<b>1 635.7</b>	<b>1 507.1</b>	<b>2</b>
34211	Cutlery, scissors, shears, trimmers, and snips . . . . .	766.3	728.1	703.5	609.9	665.3	4
34212	Razor blades and razors, except electric . . . . .	1 283.8	1 128.8	1 066.2	974.5	803.9	1
34210	Cutlery, n.s.k. . . . .	36.2	30.9	31.6	51.3	37.9	9
<b>3423–34230</b>	<b>Hand and edge tools, n.e.c.</b> . . . . .	<b>4 738.6</b>	<b>4 606.4</b>	<b>4 333.7</b>	<b>4 102.1</b>	<b>3 680.6</b>	<b>5</b>
34231	Mechanics' hand service tools . . . . .	1 986.3	1 877.2	1 740.1	1 725.5	1 626.0	9
34234	Edge tools, hand-operated . . . . .	408.9	386.2	374.7	321.8	306.5	23
34235	Dies and interchangeable cutting tools, for machines and power-driven handtools . . . . .	930.2	910.6	791.5	691.3	595.4	11
34236	Other handtools, n.e.c. . . . .	1 220.3	1 263.1	1 155.5	924.3	915.7	7
34230	Hand and edge tools, n.e.c., n.s.k. . . . .	192.9	169.3	271.9	439.1	236.9	20
<b>3425–34250</b>	<b>Saw blades and handsaws</b> . . . . .	<b>1 596.4</b>	<b>1 396.5</b>	<b>1 323.4</b>	<b>826.1</b>	<b>719.2</b>	<b>25</b>
34250	Handsaws, saw blades (hand and power), and saw accessories . . . . .	1 596.4	1 396.5	1 323.4	826.1	719.2	25
<b>3429–34290</b>	<b>Hardware, n.e.c.</b> . . . . .	<b>10 223.7</b>	<b>9 881.0</b>	<b>9 780.1</b>	<b>8 831.4</b>	<b>8 418.6</b>	<b>4</b>
34292	Furniture hardware (excluding cabinet hardware) . . . . .	926.8	890.4	862.9	727.7	702.5	8
34293	Vacuum and insulated bottles, jugs, and chests . . . . .	(D)	(D)	(D)	(D)	(D)	(X)
34294	Builders' hardware . . . . .	4 605.7	4 176.5	3 983.3	3 512.8	3 434.2	7
34296	Motor vehicle hardware . . . . .	2 784.3	2 903.6	3 010.5	2 728.1	2 574.1	3
34297	Other transportation equipment hardware (except motor vehicle hardware) . . . . .	(D)	(D)	(D)	(D)	(D)	(X)
34298	Other hardware, n.e.c. . . . .	798.3	776.3	759.2	696.9	748.3	7
34290	Hardware, n.e.c., n.s.k. . . . .	584.3	591.9	671.4	730.3	430.9	9
<b>3431–34310</b>	<b>Metal sanitary ware</b> . . . . .	<b>804.5</b>	<b>758.4</b>	<b>749.5</b>	<b>639.3</b>	<b>690.6</b>	<b>1</b>
34310	Metal plumbing fixtures <sup>3</sup> . . . . .	804.5	758.4	749.5	639.3	690.6	1
<b>3432–34321</b>	<b>Plumbing fixture fittings and trim</b> . . . . .	<b>3 959.8</b>	<b>3 370.8</b>	<b>3 185.8</b>	<b>2 855.8</b>	<b>2 576.5</b>	<b>8</b>
34321	Single lever controls, two or three handle bath or shower fittings, and anti-scald bath or shower valves (brass goods) . . . . .	953.8	905.6	898.9	842.4	788.8	1
34322	Lavatory and sink fittings (except single control), including drains and overflows (brass goods) . . . . .	735.9	646.2	659.7	620.9	578.8	6
34323	Miscellaneous plumbing fixtures, fittings, and trim (brass goods) . . . . .	2 065.4	1 617.5	1 411.5	1 155.5	1 061.2	15
34320	Plumbing fixture fittings and trim, n.s.k. . . . .	204.8	201.5	215.7	237.0	147.7	7

See footnotes at end of table.





**Table 1. Value of Shipments for Product Classes: 1992 to 1996—Con.**

[For meaning of abbreviations and symbols and explanation of terms, see introductory text]

Industry and product class code	Description	Value of product shipments (million dollars)					Standard error of estimate <sup>1</sup> (percent) for column—
		1996	1995	1994	1993	1992	
		A	B	C	D	E	
<b>34</b>	<b>FABRICATED METAL PRODUCTS—Con.</b>						
<b>3469–</b>	<b>Metal stampings, n.e.c.</b>	<b>12 156.6</b>	<b>11 893.1</b>	<b>10 591.5</b>	<b>9 771.8</b>	<b>8 948.5</b>	<b>4</b>
34692	Job stampings, except automotive	7 327.6	7 372.3	6 333.9	5 454.6	5 076.9	4
34694	Stamped and spun utensils, cooking and kitchen, aluminum	630.8	624.2	562.6	541.5	541.3	9
34695	Stamped and spun utensils, cooking and kitchen, except aluminum	431.5	431.4	440.2	435.6	448.4	10
34696	Metal spinning products	257.4	239.4	157.1	98.9	109.5	25
34699	Other stamped and pressed metal end products, including vitreous enameled products	2 363.7	2 175.4	2 005.6	1 958.8	1 856.6	14
34690	Metal stampings, n.e.c., n.s.k.	1 145.6	1 050.4	1 092.1	1 282.3	915.7	10
<b>3471–</b>	<b>Plating and polishing</b>	<b>5 652.4</b>	<b>5 642.8</b>	<b>5 106.9</b>	<b>5 009.9</b>	<b>4 458.1</b>	<b>4</b>
34710	Electroplating, plating, and polishing	5 652.4	5 642.8	5 106.9	5 009.9	4 458.1	4
<b>3479–</b>	<b>Metal coating and allied services</b>	<b>7 634.3</b>	<b>7 120.9</b>	<b>6 599.1</b>	<b>5 946.0</b>	<b>5 202.3</b>	<b>3</b>
34790	Etching, engraving, coating, and allied services	7 634.3	7 120.9	6 599.1	5 946.0	5 202.3	3
<b>3482–</b>	<b>Small arms ammunition</b>	<b>777.8</b>	<b>851.6</b>	<b>899.9</b>	<b>939.7</b>	<b>905.0</b>	<b>5</b>
34820	Small arms ammunition, 30 mm or less (or 1.18 inches or less) for small firearms (rifles, shotguns, and sidearms)	777.8	851.6	899.9	939.7	905.0	5
<b>3483–</b>	<b>Ammunition, except for small arms, n.e.c.</b>	<b>1 087.6</b>	<b>1 321.0</b>	<b>1 440.2</b>	<b>1 773.6</b>	<b>2 355.5</b>	<b>4</b>
34831	Artillery ammunition, more than 30 mm (or more than 1.18 inches)	492.9	490.1	669.6	916.0	1 028.4	7
34833	Ammunition, except for small arms, n.e.c.	595.4	833.4	768.2	849.0	1 322.4	5
34830	Ammunition, except for small arms, n.e.c., n.s.k.	(S)	(S)	2.5	8.7	4.7	(X)
<b>3484–</b>	<b>Small arms</b>	<b>1 197.2</b>	<b>1 307.4</b>	<b>1 303.3</b>	<b>1 349.1</b>	<b>1 273.3</b>	<b>3</b>
34841	Machine guns, 30 mm or less (or 1.18 inches or less)	185.2	187.4	190.3	203.5	256.2	1
34842	Small arms, 30 mm or less (or 1.18 inches or less)	971.0	1 071.2	1 060.1	1 046.9	949.6	2
34840	Small arms, n.s.k.	41.0	48.7	53.0	98.7	67.5	52
<b>3489–</b>	<b>Ordinance and accessories, n.e.c.</b>	<b>1 071.9</b>	<b>940.0</b>	<b>715.3</b>	<b>811.9</b>	<b>791.8</b>	<b>4</b>
34891	Guns, howitzers, mortars, and related equipment, more than 30 mm (or more than 1.18 inches)	583.5	477.0	403.6	388.0	354.3	7
34892	Ordinance and accessories, n.e.c.	473.8	452.7	291.6	409.6	426.5	2
34890	Ordinance and accessories, n.e.c., n.s.k.	14.5	10.3	20.1	14.3	11.0	15
<b>3491–</b>	<b>Industrial valves</b>	<b>7 702.2</b>	<b>7 168.1</b>	<b>6 651.1</b>	<b>6 470.4</b>	<b>6 194.1</b>	<b>4</b>
34911	Gates, globes, angles, straightway (Y-type) checks, stop and check, cross, 3- and 4-way, etc.	1 382.7	1 280.8	1 105.6	1 148.0	1 139.8	13
34912	Valves for water works and municipal equipment (IBBW, AWWA, and UL)	845.8	787.6	706.3	548.4	542.6	14
34913	Ball valves (all metals, pressures, and types), including manual and power-operated, on/off valves	1 119.0	1 013.1	1 019.6	918.3	947.0	5
34914	Butterfly valves (all metals, pressures, and types), including manual and power-operated, on/off valves	395.9	358.8	346.2	393.6	376.0	12
34915	Plug valves (all metals, pressures, and types), such as lubricated, cylindrical eccentric, and sleeve-lined	301.2	285.2	267.3	257.9	274.6	5
34916	Industrial valves, n.e.c.	964.8	891.2	758.0	797.9	669.0	16
34917	Nuclear valves (N-stamp only)	77.2	83.8	90.3	91.5	100.4	6
34918	Automatic valves (regulating and control type) and parts (except nuclear) <sup>3</sup>	2 027.2	1 902.6	1 794.1	1 671.7	1 585.2	3
34919	Solenoid-operated valves and parts, except nuclear and fluid power transfer <sup>3</sup>	456.8	437.3	473.6	394.0	393.4	10
34910	Industrial valves, n.s.k.	131.6	127.8	90.2	249.2	166.1	18
<b>3492–</b>	<b>Fluid power valves and hose fittings</b>	<b>4 569.1</b>	<b>4 411.5</b>	<b>4 167.1</b>	<b>3 381.1</b>	<b>3 350.5</b>	<b>3</b>
3492A	Aerospace-type hydraulic fluid power valves <sup>3</sup>	307.4	250.5	273.6	229.5	347.8	3
3492B	Aerospace-type pneumatic fluid power valves <sup>3</sup>	105.3	95.4	83.4	88.8	108.6	1
3492C	Nonaerospace-type hydraulic directional control valves <sup>3</sup>	455.6	449.1	458.2	385.9	314.6	18
3492D	Nonaerospace-type hydraulic valves, except directional control <sup>3</sup>	597.5	564.1	466.4	355.4	374.5	8
3492E	Nonaerospace-type pneumatic directional control valves <sup>3</sup>	449.3	426.1	393.8	331.0	324.2	2
3492F	Nonaerospace-type pneumatic valves, except directional control <sup>3</sup>	174.9	169.8	169.9	141.6	125.9	1
3492G	Parts for fluid power valves <sup>3</sup>	182.7	170.8	151.1	143.3	137.0	5
3492H	Aerospace-type hydraulic and pneumatic hose or tube end fittings and assemblies <sup>3</sup>	429.2	477.7	482.4	313.0	327.4	13
3492J	Nonaerospace-type flared (metal) fittings, couplings for, and assemblies of tubing used in fluid power transfer systems <sup>3</sup>	366.0	369.8	317.5	204.0	189.7	21
3492K	Nonaerospace-type flareless fittings and couplings (including nonmetal fittings) used in fluid power transfer systems <sup>3</sup>	448.1	430.2	382.6	349.9	339.9	4
3492M	Nonaerospace-type hydraulic and pneumatic fittings and couplings for hose <sup>3</sup>	689.3	648.4	592.8	451.6	421.3	2
3492N	Nonaerospace-type hydraulic and pneumatic assemblies of hose <sup>3</sup>	251.2	245.4	273.3	242.0	238.6	5
34920	Fluid power valves and hose fittings, n.s.k.	112.6	114.3	122.2	145.1	101.0	10
<b>3493–</b>	<b>Steel springs, except wire</b>	<b>566.9</b>	<b>565.6</b>	<b>538.8</b>	<b>498.0</b>	<b>466.0</b>	<b>9</b>
34931	Hot formed springs	307.3	311.3	292.1	246.3	246.3	6
34932	Cold formed springs	238.0	234.2	225.0	217.5	197.4	19
34930	Steel springs, except wire, n.s.k.	21.5	20.2	21.8	34.1	22.3	22
<b>3494–</b>	<b>Valves and pipe fittings, n.e.c.</b>	<b>2 347.0</b>	<b>2 333.0</b>	<b>2 177.1</b>	<b>1 990.3</b>	<b>1 905.9</b>	<b>5</b>
34944	Plumbing and heating valves and specialties, except plumbers' brass goods	381.7	361.7	345.0	357.5	356.1	10
34945	Metal fittings, flanges, and unions for piping systems	1 759.1	1 759.2	1 643.6	1 344.9	1 320.8	6
34940	Valves and pipe fittings, n.e.c., n.s.k.	206.2	212.0	188.5	287.9	229.0	11
<b>3495–</b>	<b>Wire springs</b>	<b>2 193.1</b>	<b>2 088.0</b>	<b>1 822.3</b>	<b>1 859.5</b>	<b>1 534.9</b>	<b>7</b>
34952	Precision mechanical springs	848.4	831.2	764.2	771.3	654.4	9
34953	Other wire springs	1 168.5	1 090.2	906.0	885.4	748.7	10
34950	Wire springs, n.s.k.	176.1	166.6	152.1	202.8	131.7	9
<b>3496–</b>	<b>Miscellaneous fabricated wire products</b>	<b>4 614.0</b>	<b>4 295.4</b>	<b>3 759.3</b>	<b>3 767.1</b>	<b>3 437.6</b>	<b>6</b>
34961	Noninsulated ferrous wire rope, cable, and strand (not made in wiredrawing plants) (see also code 33151) <sup>2</sup>	694.1	603.7	458.8	483.1	450.7	17
34964	Ferrous wire cloth and other ferrous woven wire products (not made in wiredrawing plants) (see also code 33157) <sup>2</sup>	311.9	305.2	271.6	229.0	204.2	12
34965	Nonferrous wire cloth and other woven wire products (not made in wiredrawing plants) (see also code 33575) <sup>2</sup>	135.7	143.5	140.4	123.3	120.1	4
34966	Fencing and fence gates (not made in wiredrawing plants) (see also code 33576) <sup>2</sup>	163.0	158.9	140.6	143.1	140.5	13
34968	Other fabricated ferrous wire products (except springs) (not made in wiredrawing plants) (see also code 33159) <sup>2</sup>	3 106.7	2 895.9	2 570.9	2 430.4	2 306.6	8
34960	Miscellaneous fabricated wire products, n.s.k.	202.7	188.3	177.0	358.2	215.5	13
<b>3497–</b>	<b>Metal foil and leaf</b>	<b>3 347.7</b>	<b>3 250.3</b>	<b>3 044.6</b>	<b>3 002.2</b>	<b>2 913.1</b>	<b>4</b>
34971	Converted unmounted aluminum foil packaging products	906.6	966.0	898.1	836.1	885.8	1
34972	Laminated aluminum foil rolls and sheets for flexible packaging uses	1 516.9	1 415.0	1 354.4	1 447.3	1 405.5	4
34973	Converted foil for nonpackaging applications and foil and leaf	900.0	845.4	774.2	659.4	608.2	12
34970	Metal foil and leaf, n.s.k.	24.1	23.9	17.9	59.4	13.6	1
<b>3498–</b>	<b>Fabricated pipe and fittings</b>	<b>4 008.5</b>	<b>3 888.3</b>	<b>3 181.7</b>	<b>2 892.6</b>	<b>2 807.3</b>	<b>7</b>
34980	Fabricated pipe and pipe fittings made from purchased pipe	4 008.5	3 888.3	3 181.7	2 892.6	2 807.3	7

See footnotes at end of table.

**Table 1. Value of Shipments for Product Classes: 1992 to 1996—Con.**

[For meaning of abbreviations and symbols and explanation of terms, see introductory text]

Industry and product class code	Description	Value of product shipments (million dollars)					Standard error of estimate <sup>1</sup> (percent) for column—
		1996	1995	1994	1993	1992	
		A	B	C	D	E	
<b>34</b>	<b>FABRICATED METAL PRODUCTS—Con.</b>						
<b>3499–</b>	<b>Fabricated metal products, n.e.c.</b> .....	<b>9 042.7</b>	<b>8 469.6</b>	<b>7 898.7</b>	<b>7 117.3</b>	<b>6 558.0</b>	<b>8</b>
34991	Safes and vaults .....	351.0	329.2	251.7	209.1	164.2	10
34992	Collapsible tubes .....	80.8	82.7	53.7	44.7	56.0	26
34993	Flat metal strapping .....	368.5	390.8	348.3	302.6	298.5	6
34995	Metal ladders .....	349.9	348.2	322.6	282.3	252.2	6
34996	Powder metallurgy parts, excluding bearings, gears, and machine cutting tools and all cemented carbide parts .....	996.1	994.6	925.9	851.2	828.0	3
34998	All other fabricated metal products, n.e.c. ....	5 293.3	4 789.8	4 348.8	3 460.1	3 362.3	12
34990	Fabricated metal products, n.e.c., n.s.k. ....	1 603.2	1 534.3	1 647.7	1 967.2	1 596.8	6
<b>35</b>	<b>INDUSTRIAL MACHINERY AND EQUIPMENT</b>						
<b>3511–</b>	<b>Turbines, turbine generators, and turbine generator sets</b> .....	<b>6 307.9</b>	<b>6 133.5</b>	<b>6 545.6</b>	<b>6 353.7</b>	<b>6 003.2</b>	<b>1</b>
35110	Turbine generator sets, turbines, turbine generators, and parts .....	6 307.9	6 133.5	6 545.6	6 353.7	6 003.2	1
<b>3519–</b>	<b>Internal combustion engines, n.e.c.</b> .....	<b>16 976.1</b>	<b>16 558.3</b>	<b>15 102.6</b>	<b>12 504.2</b>	<b>11 616.8</b>	<b>2</b>
35191	Gasoline and gas-gasoline engines (except aircraft, automobile, highway truck, bus, tank, and outboard marine) <sup>3</sup> .....	2 144.0	2 087.8	2 118.2	1 647.4	1 549.3	1
35193	Diesel, semidiesel, and dual-fuel engines (except automobile, highway truck, bus, and tank) <sup>3</sup> .....	2 359.5	1 863.6	1 510.0	1 390.4	1 486.7	7
35194	Diesel, semidiesel, and dual-fuel engines for automobiles, highway trucks, and buses <sup>3</sup> .....	5 305.3	5 991.7	5 375.5	4 314.4	3 165.7	3
35195	Outboard motors (internal combustion) .....	(D)	(D)	(D)	(D)	(D)	(X)
35196	Piston-type natural gas engines, including LPG engines (excluding gas turbines) <sup>3</sup> .....	307.0	318.5	250.2	213.3	175.5	1
35197	Tank (except gas turbine) and converted internal combustion engines .....	(D)	(D)	(D)	(D)	(D)	(X)
35199	Parts and accessories for internal combustion engines, except aircraft and gasoline automotive engines and gas turbines .....	5 075.4	4 494.8	4 252.7	3 642.8	3 860.1	3
35190	Internal combustion engines, n.e.c., n.s.k. ....	135.5	168.9	115.1	157.4	159.2	18
<b>3523–</b>	<b>Farm machinery and equipment</b> .....	<b>13 190.7</b>	<b>12 598.6</b>	<b>11 911.2</b>	<b>10 340.0</b>	<b>8 939.9</b>	<b>3</b>
35231	Farm-type (power take off hp) wheel tractors (2- and 4-wheel drive) (sold with or without attachments) <sup>3</sup> .....	(D)	(D)	(D)	(D)	(D)	(X)
35232	Farm dairy equipment, sprayers and dusters (except aerial types), farm elevators, and farm blowers <sup>3</sup> .....	704.3	615.0	541.1	478.0	384.9	9
35233	Planting, seeding, and fertilizing machinery, excluding turf machinery <sup>3</sup> .....	757.5	695.5	786.3	692.8	520.8	2
35235	Harvesting machinery, except hay and straw <sup>3</sup> .....	2 541.9	2 393.3	1 979.7	1 626.4	1 564.5	1
35236	Haying machinery <sup>3</sup> .....	603.9	629.1	678.9	507.6	434.8	1
3523C	Plows, including plowshares (primary tillage), harrows, rollers, pulverizers, and cultivators and weeders <sup>3</sup> .....	557.5	465.7	421.5	271.8	267.7	22
3523E	All other farm machinery and equipment (excluding parts) <sup>3</sup> .....	(D)	(D)	(D)	(D)	(D)	(X)
35239	Parts for farm machinery, for sale separately <sup>3</sup> .....	1 758.9	1 728.6	1 898.5	1 593.2	1 486.0	9
3523F	Commercial turf and grounds care equipment <sup>3</sup> .....	992.6	1 024.0	968.3	841.1	834.0	14
35230	Farm machinery and equipment, n.s.k. ....	747.5	717.7	656.1	1 200.0	620.5	13
<b>3524–</b>	<b>Lawn and garden equipment</b> .....	<b>5 907.9</b>	<b>6 061.0</b>	<b>5 729.9</b>	<b>4 883.6</b>	<b>4 344.2</b>	<b>3</b>
35241	Consumer nonriding lawn, garden, and snow equipment <sup>3</sup> .....	2 634.5	2 577.6	2 464.3	2 152.4	1 946.0	3
35244	Consumer riding lawn, garden, and snow equipment <sup>3</sup> .....	2 264.6	2 465.1	2 282.3	1 911.2	1 645.0	1
35246	Parts and attachments for consumer lawn, garden, and snow equipment <sup>3</sup> .....	900.4	922.5	904.9	687.6	637.2	13
35240	Lawn and garden equipment, n.s.k. ....	108.4	95.7	78.3	132.4	116.0	26
<b>3531–</b>	<b>Construction machinery</b> .....	<b>20 259.3</b>	<b>18 298.9</b>	<b>16 122.5</b>	<b>14 121.8</b>	<b>12 000.5</b>	<b>3</b>
3531A	Wheel tractors, contractors' off-highway (2- and 4-wheel), rubber-tired dozers, and self-propelled wheeled log skidders <sup>3</sup> .....	(D)	(D)	(D)	(D)	(D)	(X)
3531B	Crawler tractors, 20 net engine horsepower rating or more (sold with or without attachments) (excluding parts) <sup>3</sup> .....	(D)	(D)	(D)	(D)	(D)	(X)
3531C	Tractor shovel loaders (sold with or without attachments) (excluding parts) <sup>3</sup> .....	3 052.3	2 945.3	2 572.3	2 595.4	1 836.7	2
3531E	Power cranes, draglines, and shovels (excavators) (including surface mining equipment and attachments) (excluding parts) <sup>3</sup> .....	2 607.3	2 460.1	2 387.3	1 845.6	1 656.9	5
3531F	Mixers, pavers, and related equipment (excluding parts) <sup>3</sup> .....	1 275.1	1 195.7	1 055.9	822.4	642.4	13
3531G	Scrapers, graders, rollers, off-highway trucks and coal haulers, trailers, wagons, rough terrain forklifts, except parts <sup>3</sup> .....	3 250.3	2 697.0	2 270.0	1 949.0	1 602.2	8
3531M	Parts for construction machinery and equipment, sold separately .....	3 566.6	3 383.3	3 172.4	2 648.8	2 523.3	4
3531N	Construction machinery for mounting on tractors and other prime movers (excluding parts and snow clearing attachments) <sup>3</sup> .....	484.4	456.1	378.5	323.5	326.0	11
3531P	Other construction machinery and equipment (excluding parts) <sup>3</sup> .....	3 604.3	3 038.8	2 444.4	1 922.0	1 838.9	4
35310	Construction machinery, n.s.k. ....	454.3	401.1	326.7	669.7	390.3	35
<b>3532–</b>	<b>Mining machinery</b> .....	<b>2 201.8</b>	<b>2 099.5</b>	<b>1 639.2</b>	<b>1 745.0</b>	<b>1 416.9</b>	<b>7</b>
35325	Underground mining machinery (except parts sold separately) <sup>3</sup> .....	478.5	507.5	292.6	437.3	328.5	8
35326	Mineral processing and beneficiation machinery (except parts sold separately) .....	126.9	112.2	116.0	136.1	76.6	26
35327	Crushing, pulverizing, and screening machinery (excluding portable plants), except parts sold separately <sup>3</sup> .....	232.8	235.2	205.5	224.6	191.0	7
35328	Drills and other mining machinery, n.e.c. (except parts sold separately) <sup>3</sup> .....	379.8	356.6	282.8	171.3	142.2	23
35329	Parts and attachments for mining machinery and equipment (sold separately) .....	917.6	830.3	702.0	635.3	609.6	9
35320	Mining machinery, n.s.k. ....	66.2	57.7	40.3	140.5	69.1	88
<b>3533–</b>	<b>Oil and gas field machinery</b> .....	<b>3 813.5</b>	<b>3 023.1</b>	<b>2 975.6</b>	<b>2 938.7</b>	<b>2 980.7</b>	<b>7</b>
35337	Rotary oil and gas field drilling machinery and equipment .....	1 149.8	876.6	800.3	720.5	897.3	4
35338	Other oil and gas field drilling machinery and equipment .....	219.3	168.3	164.9	228.3	183.6	11
35339	Oil and gas field production machinery and equipment (except pumps) .....	1 693.4	1 368.3	1 413.6	1 190.3	1 188.5	12
3533A	Portable drilling rigs and parts <sup>3</sup> .....	316.2	277.7	234.6	346.7	253.9	25
3533B	Oil and gas field derricks and well surveying machinery .....	289.3	201.4	186.5	58.1	65.7	16
35330	Oil and gas field machinery, n.s.k. ....	145.5	130.8	175.7	394.9	307.6	84
<b>3534–</b>	<b>Elevators and moving stairways</b> .....	<b>1 387.3</b>	<b>1 212.9</b>	<b>1 066.2</b>	<b>957.8</b>	<b>918.3</b>	<b>6</b>
35341	Elevators and moving stairways .....	1 070.4	914.3	797.5	715.1	696.8	7
35342	Parts and attachments for elevators and moving stairways (sold separately) .....	261.7	234.9	196.1	174.2	178.5	10
35340	Elevators and moving stairways, n.s.k. ....	55.3	63.7	72.6	68.4	43.0	17
<b>3535–</b>	<b>Conveyors and conveying equipment</b> .....	<b>5 122.6</b>	<b>4 925.1</b>	<b>4 472.3</b>	<b>4 072.3</b>	<b>3 626.7</b>	<b>5</b>
35353	Unit handling conveyors and conveying systems, except hoists and farm elevators .....	2 618.0	2 497.7	2 300.7	2 108.7	1 808.4	6
35354	Parts, attachments, and accessories for unit handling conveyors and conveying systems (sold separately) .....	204.4	200.1	203.4	156.8	143.0	16
35355	Bulk material handling conveyors and conveying systems, except hoists and farm elevators .....	1 588.8	1 495.7	1 310.9	1 006.1	994.4	11
35356	Parts, attachments, and accessories for bulk material handling conveyors and conveying systems (sold separately) .....	445.4	470.2	408.5	376.1	375.1	9
35350	Conveyors and conveying equipment, n.s.k. ....	265.9	261.5	248.9	424.6	305.8	31

See footnotes at end of table.

**Table 1. Value of Shipments for Product Classes: 1992 to 1996—Con.**

[For meaning of abbreviations and symbols and explanation of terms, see introductory text]

Industry and product class code	Description	Value of product shipments (million dollars)					Standard error of estimate <sup>1</sup> (percent) for column—
		1996	1995	1994	1993	1992	
		A	B	C	D	E	
<b>35</b>	<b>INDUSTRIAL MACHINERY AND EQUIPMENT—Con.</b>						
<b>3536–</b>	<b>Hoists, cranes, and monorails</b> .....	<b>1 245.7</b>	<b>1 241.9</b>	<b>1 131.2</b>	<b>937.3</b>	<b>812.4</b>	<b>11</b>
35363	Hoists .....	694.7	678.0	604.9	445.6	381.3	18
35364	Overhead traveling cranes and monorail systems .....	500.7	498.7	480.5	414.6	380.7	9
35360	Hoists, cranes, and monorails, n.s.k. ....	50.2	65.3	45.8	77.1	50.4	26
<b>3537–</b>	<b>Industrial trucks and tractors</b> .....	<b>4 608.8</b>	<b>4 419.2</b>	<b>3 819.0</b>	<b>3 197.7</b>	<b>2 681.5</b>	<b>4</b>
35373	Industrial trucks, tractors, mobile straddle carriers and cranes, and automatic stacking machines .....	3 414.5	3 321.1	2 850.7	2 056.5	1 780.5	4
35374	Parts and attachments for industrial trucks and tractors (sold separately) .....	985.2	879.1	783.4	640.4	596.7	7
35370	Industrial trucks and tractors, n.s.k. ....	209.1	219.0	184.9	500.8	304.3	33
<b>3541–</b>	<b>Machine tools, metal cutting types</b> .....	<b>4 082.1</b>	<b>3 906.1</b>	<b>3 434.5</b>	<b>2 915.3</b>	<b>3 092.7</b>	<b>5</b>
3541D	Boring machines (excluding machining centers) and drilling machines (excluding machining centers) <sup>3</sup> .....	220.8	234.3	175.9	120.1	151.4	24
35413	Gear cutting machines <sup>3</sup> .....	122.5	89.8	77.3	81.8	87.4	13
35414	Grinding, polishing, buffing, honing, and lapping machines, except gear-tooth grinding, lapping, polishing, and buffing <sup>3</sup> .....	503.6	504.8	480.9	307.9	395.8	7
35415	Lathes (turning machines) <sup>3</sup> .....	440.2	455.9	452.3	385.4	329.3	11
35416	Milling machines (excluding machining centers) <sup>3</sup> .....	229.9	240.2	215.7	172.4	221.7	16
3541A	Machining centers (multifunction numerically controlled machines) <sup>3</sup> .....	690.6	591.9	493.8	462.9	454.1	16
3541B	Station type machines <sup>3</sup> .....	544.2	510.8	446.4	427.6	485.6	19
3541C	Other metal cutting machine tools (except those designed primarily for home workshops, laboratories, garages, etc.) <sup>3</sup> .....	290.5	280.8	264.6	256.1	224.1	12
35418	Machine tools designed primarily for home workshops, labs, garages, etc. (metalworking and primarily metalworking) .....	41.2	35.1	35.5	43.0	60.9	28
35419	Parts for metal cutting machine tools (sold separately) and rebuilt metal cutting machine tools .....	837.7	788.3	644.3	547.3	606.2	8
35410	Machine tools, metal cutting types, n.s.k. ....	160.9	174.3	147.7	110.8	76.2	11
<b>3542–</b>	<b>Machine tools, metal forming types</b> .....	<b>2 006.0</b>	<b>1 840.5</b>	<b>1 663.1</b>	<b>1 608.6</b>	<b>1 428.3</b>	<b>7</b>
35421	Punching and shearing machines (including power and manual) and bending and forming machines (power only) <sup>3</sup> .....	580.2	451.0	436.0	464.5	382.6	13
35422	Metalworking presses (except forging and die-stamping presses) <sup>3</sup> .....	420.7	414.0	373.2	354.7	329.8	4
35423	Other metal forming machine tools, including forging and die-stamping machines (except metalworking presses) <sup>3</sup> .....	472.9	446.1	417.0	481.9	320.9	18
35424	Parts for metal forming machine tools (sold separately) and rebuilt metal forming machine tools .....	422.2	404.8	377.8	272.6	376.2	13
35420	Machine tools, metal forming types, n.s.k. ....	110.0	124.6	59.2	35.0	18.8	44
<b>3543–</b>	<b>Industrial patterns</b> .....	<b>805.6</b>	<b>754.9</b>	<b>729.5</b>	<b>698.6</b>	<b>669.5</b>	<b>8</b>
35430	Industrial patterns, except shoe patterns .....	805.6	754.9	729.5	698.6	669.5	8
<b>3544–</b>	<b>Special dies, tools, jigs, and fixtures</b> .....	<b>13 834.1</b>	<b>13 594.8</b>	<b>12 235.2</b>	<b>10 990.2</b>	<b>10 229.6</b>	<b>2</b>
35441	Special dies and tools, die sets, jigs, and fixtures .....	7 600.5	7 562.7	6 796.5	5 298.3	5 096.2	3
35442	Industrial molds and mold boxes .....	4 921.9	4 761.4	4 264.5	3 746.2	3 747.8	4
35440	Special dies, tools, jigs, and fixtures, n.s.k. ....	1 311.7	1 270.7	1 174.3	1 945.7	1 385.6	7
<b>3545–</b>	<b>Machine tool accessories</b> .....	<b>5 145.9</b>	<b>4 863.5</b>	<b>4 401.0</b>	<b>3 798.4</b>	<b>3 605.6</b>	<b>5</b>
35451	Small cutting tools for machine tools and metalworking machinery .....	2 816.8	2 699.1	2 453.5	2 091.9	2 054.4	6
35454	Other attachments and accessories for machine tools and metalworking machinery .....	1 197.2	1 052.7	942.0	746.9	665.8	17
35455	Precision measuring tools (inspection, quality control, tool room, and machinists') .....	591.5	584.4	480.3	398.7	407.3	6
35450	Machine tool accessories, n.s.k. ....	540.4	527.4	525.1	560.9	478.1	13
<b>3546–</b>	<b>Power-driven handtools</b> .....	<b>3 426.2</b>	<b>3 368.1</b>	<b>3 281.2</b>	<b>3 074.2</b>	<b>2 414.5</b>	<b>5</b>
35462	Power-driven handtools, pneumatic, hydraulic, and powder-actuated .....	853.2	834.9	771.8	707.1	634.4	1
35463	Power-driven handtools, engine (internal combustion) driven .....	445.4	420.2	423.2	419.2	295.2	1
35464	Power-driven handtools, battery-powered (cordless) .....	345.4	355.7	344.6	429.4	291.4	1
35465	Power-driven handtools, electric (excluding battery-powered) .....	1 603.3	1 578.7	1 563.5	1 346.9	1 091.4	10
35460	Power-driven handtools, n.s.k. ....	178.9	178.7	178.0	171.6	102.2	1
<b>3547–</b>	<b>Rolling mill machinery</b> .....	<b>684.5</b>	<b>609.9</b>	<b>482.0</b>	<b>515.9</b>	<b>436.5</b>	<b>13</b>
35471	Hot rolling mill machinery (including combination hot and cold) (except tube rolling) .....	236.7	255.5	171.7	170.6	147.3	1
35472	Cold rolling mill machinery .....	44.8	38.4	48.5	81.3	66.9	52
35473	Other rolling mill machinery (including tube mill machinery) and parts for all rolling mill machinery .....	326.5	236.7	220.7	213.7	181.0	25
35470	Rolling mill machinery, n.s.k. ....	76.5	79.4	41.2	50.2	41.3	2
<b>3548–</b>	<b>Welding apparatus</b> .....	<b>3 452.2</b>	<b>3 336.4</b>	<b>3 042.7</b>	<b>2 716.5</b>	<b>2 390.9</b>	<b>6</b>
35481	Arc welding machines, components, and accessories (except electrodes), excluding stud welding equipment .....	1 341.0	1 311.9	1 135.3	1 051.9	886.1	7
35482	Arc welding electrodes, metal .....	867.3	872.4	851.0	682.8	631.7	19
35483	Resistance welders, components, accessories, and electrodes .....	377.8	385.9	380.3	334.7	280.6	10
35484	Gas welding and cutting equipment, parts, attachments, and accessories .....	294.3	248.7	241.0	281.7	252.8	8
35485	Other welding equipment, components, and accessories (excluding arc, resistance, and gas) .....	493.5	423.1	345.9	211.6	242.6	7
35480	Welding apparatus, n.s.k. ....	78.2	94.3	89.1	153.7	97.1	26
<b>3549–</b>	<b>Metalworking machinery, n.e.c.</b> .....	<b>2 800.1</b>	<b>2 683.8</b>	<b>2 314.9</b>	<b>1 691.6</b>	<b>1 511.8</b>	<b>11</b>
35492	Assembly machines .....	1 936.9	1 973.4	1 698.9	966.7	872.0	14
35495	Other metalworking machinery (except handheld and ultrasonic) .....	741.3	596.7	528.0	531.0	487.2	12
35490	Metalworking machinery, n.e.c., n.s.k. ....	121.8	113.8	88.0	193.9	152.6	29
<b>3552–</b>	<b>Textile machinery</b> .....	<b>1 475.3</b>	<b>1 620.2</b>	<b>1 615.0</b>	<b>1 612.3</b>	<b>1 334.3</b>	<b>8</b>
35521	Textile machinery, except parts, attachments, and accessories .....	835.7	977.8	967.8	916.5	699.8	8
35522	Parts and attachments for textile machinery .....	526.9	558.6	527.5	485.9	477.6	16
35520	Textile machinery, n.s.k. ....	112.6	83.7	119.7	209.9	156.9	29
<b>3553–</b>	<b>Woodworking machinery</b> .....	<b>1 138.3</b>	<b>1 227.4</b>	<b>1 053.0</b>	<b>871.4</b>	<b>774.4</b>	<b>10</b>
35533	Woodworking machinery, including parts, attachments, and accessories .....	821.3	869.1	713.2	550.3	478.4	13
35534	Woodworking machinery for home workshops, garages, service shops .....	223.7	257.4	245.4	183.7	181.6	1
35530	Woodworking machinery, n.s.k. ....	93.3	101.0	94.4	137.4	114.5	17
<b>3554–</b>	<b>Paper industries machinery</b> .....	<b>3 038.9</b>	<b>2 970.2</b>	<b>2 478.5</b>	<b>2 252.9</b>	<b>2 224.6</b>	<b>5</b>
35543	Paper industries machinery .....	2 148.9	2 138.6	1 670.9	1 387.2	1 376.7	7
35544	Parts and attachments for paper industries machinery (sold separately) .....	713.2	704.1	670.8	680.7	685.3	4
35540	Paper industries machinery, n.s.k. ....	176.8	127.4	136.9	185.0	162.6	17

See footnotes at end of table.



**Table 1. Value of Shipments for Product Classes: 1992 to 1996—Con.**

[For meaning of abbreviations and symbols and explanation of terms, see introductory text]

Industry and product class code	Description	Value of product shipments (million dollars)					Standard error of estimate <sup>1</sup> (percent) for column— A
		1996	1995	1994	1993	1992	
		A	B	C	D	E	
<b>35</b>	<b>INDUSTRIAL MACHINERY AND EQUIPMENT—Con.</b>						
<b>3572–</b>	<b>Computer storage devices</b> .....	<b>11 012.0</b>	<b>10 816.8</b>	<b>8 622.7</b>	<b>9 200.5</b>	<b>8 581.8</b>	<b>2</b>
35721	Computer storage devices <sup>3</sup> .....	8 207.4	8 150.4	6 216.0	7 200.2	6 729.5	2
35722	Parts, attachments, and subassemblies for computer storage devices <sup>3</sup> .....	1 830.8	2 306.7	1 998.8	1 559.4	1 398.3	4
35720	Computer storage devices, n.s.k. ....	973.8	359.7	407.9	440.9	454.0	6
<b>3575–</b>	<b>Computer terminals</b> .....	<b>1 449.8</b>	<b>1 442.9</b>	<b>1 723.7</b>	<b>1 998.8</b>	<b>2 290.8</b>	<b>4</b>
35751	Computer terminals <sup>3</sup> .....	1 130.5	1 219.2	1 309.4	1 525.1	1 791.9	5
35752	Parts, attachments, and subassemblies for computer terminals <sup>3</sup> .....	198.1	77.3	205.7	122.4	194.7	3
35750	Computer terminals, n.s.k. ....	121.2	146.5	208.7	351.3	304.2	26
<b>3577–</b>	<b>Computer peripheral equipment, n.e.c.</b> .....	<b>20 506.3</b>	<b>16 614.4</b>	<b>14 483.6</b>	<b>14 616.1</b>	<b>13 237.9</b>	<b>2</b>
35771	Computer peripheral equipment, n.e.c. <sup>3</sup> .....	13 648.1	13 304.9	10 717.5	10 574.9	9 016.5	2
35772	Parts, attachments, and subassemblies for computer peripheral equipment, n.e.c. <sup>3</sup> .....	5 908.9	2 627.9	2 786.7	2 992.1	3 228.6	1
35770	Computer peripheral equipment, n.e.c., n.s.k. ....	949.2	681.7	979.3	1 049.0	992.7	16
<b>3578–</b>	<b>Calculating and accounting equipment</b> .....	<b>1 655.3</b>	<b>1 519.0</b>	<b>1 424.4</b>	<b>1 463.3</b>	<b>1 306.6</b>	<b>3</b>
35784	Accounting machines and cash registers <sup>3</sup> .....	1 449.1	1 270.7	1 146.7	1 230.0	1 092.3	2
35789	Parts and attachments for calculators, accounting machines, cash registers, funds-transfer and point-of-sale terminals <sup>3</sup> .....	127.0	181.1	145.8	84.1	72.9	19
35780	Calculating and accounting equipment, n.s.k. ....	79.2	67.2	131.9	149.1	141.3	26
<b>3579–</b>	<b>Office machines, n.e.c.</b> .....	<b>2 990.3</b>	<b>3 011.6</b>	<b>3 048.1</b>	<b>3 036.1</b>	<b>2 978.4</b>	<b>4</b>
35792	Automatic typing and word processing machines <sup>3</sup> .....	174.1	248.0	298.6	368.1	480.9	42
35793	Duplicating machines <sup>3</sup> .....	(D)	(D)	(D)	(D)	(D)	(X)
35795	Mailing, letter handling, and addressing machines <sup>3</sup> .....	1 244.7	1 260.9	1 141.9	1 307.6	1 171.8	1
35799	Standard typewriters, dictating, transcribing, recording machines, and all other office machines, n.e.c. <sup>3</sup> .....	(D)	(D)	(D)	(D)	(D)	(X)
3579A	Parts and attachments for standard typewriters, dictating, duplicating, and other office machines, n.e.c. <sup>3</sup> .....	476.6	418.9	351.0	349.7	274.3	12
35790	Office machines, n.e.c., n.s.k. ....	430.3	422.2	565.2	354.8	403.6	9
<b>3581–</b>	<b>Automatic merchandising machines</b> .....	<b>1 021.0</b>	<b>978.3</b>	<b>900.7</b>	<b>832.9</b>	<b>786.8</b>	<b>4</b>
35811	Automatic merchandising machines, coin-operated (vending) <sup>3</sup> .....	736.9	715.9	657.0	609.5	559.0	5
35812	Coin-operated mechanisms and parts for automatic merchandising machines .....	228.5	208.3	187.8	166.2	193.5	9
35810	Automatic merchandising machines, n.s.k. ....	55.6	54.1	55.9	57.3	34.3	10
<b>3582–</b>	<b>Commercial laundry equipment</b> .....	<b>620.9</b>	<b>645.8</b>	<b>633.9</b>	<b>617.1</b>	<b>555.8</b>	<b>3</b>
35820	Commercial laundry, dry cleaning, and pressing machinery and equipment .....	620.9	645.8	633.9	617.1	555.8	3
<b>3585–</b>	<b>Refrigeration and heating equipment</b> .....	<b>25 512.3</b>	<b>23 769.6</b>	<b>22 440.5</b>	<b>19 766.9</b>	<b>18 097.9</b>	<b>1</b>
35851	Heat transfer equipment (except electrically operated dehumidifiers), mechanically refrigerated, self-contained <sup>3</sup> .....	6 281.7	6 083.8	5 650.5	5 166.8	4 443.3	2
35852	Unitary air-conditioners <sup>3</sup> .....	5 211.1	4 698.1	4 483.4	4 008.6	3 799.6	2
35853	Commercial refrigerators and related equipment .....	2 232.3	2 175.6	2 180.8	1 901.4	1 827.7	5
35854	Compressors and compressor units, all refrigerants <sup>3</sup> .....	4 869.4	4 420.1	3 905.9	3 247.9	3 083.6	1
35855	Refrigeration condensing units (complete) <sup>3</sup> .....	278.1	270.6	253.0	230.2	209.6	3
35856	Room air-conditioners and dehumidifiers <sup>3</sup> .....	1 366.8	1 299.5	1 183.1	822.1	879.0	2
35859	Refrigeration and air-conditioning equipment, n.e.c. ....	945.1	854.6	813.8	734.6	682.2	9
3585C	Warm air furnaces, including duct furnaces and humidifiers, and electric comfort heating equipment <sup>3</sup> .....	1 906.9	1 786.6	1 827.3	1 519.3	1 300.4	2
3585D	Parts and accessories for air-conditioning and heat transfer equipment .....	2 075.3	1 862.0	1 858.0	1 587.5	1 483.7	6
35850	Refrigeration and heating equipment, n.s.k. ....	345.6	318.7	284.9	548.4	388.9	10
<b>3586–</b>	<b>Measuring and dispensing pumps</b> .....	<b>1 167.5</b>	<b>1 233.8</b>	<b>1 253.5</b>	<b>1 014.1</b>	<b>780.2</b>	<b>5</b>
35860	Measuring and dispensing pumps <sup>3</sup> .....	1 167.5	1 233.8	1 253.5	1 014.1	780.2	5
<b>3589–</b>	<b>Service industry machinery, n.e.c.</b> .....	<b>7 412.3</b>	<b>6 693.4</b>	<b>5 905.6</b>	<b>5 436.6</b>	<b>5 152.2</b>	<b>9</b>
35891	Commercial cooking and food-warming equipment .....	1 763.7	1 678.2	1 473.8	1 460.4	1 307.9	4
35893	Commercial and industrial vacuum cleaners, including parts and attachments .....	349.0	396.2	389.1	264.6	319.5	8
35892	Service industry machines and parts .....	4 786.2	4 104.9	3 591.1	3 133.0	3 133.8	13
35890	Service industry machinery, n.e.c., n.s.k. ....	513.5	514.1	451.7	578.6	391.0	16
<b>3592–</b>	<b>Carburetors, pistons, rings, and valves</b> .....	<b>2 357.8</b>	<b>2 311.6</b>	<b>2 161.5</b>	<b>2 011.5</b>	<b>1 844.6</b>	<b>4</b>
35921	Carburetors, new and rebuilt (all types) .....	919.6	917.3	891.0	800.5	714.5	1
35922	Pistons, piston rings, and piston pins (engine) .....	1 041.1	977.3	816.0	731.8	716.2	7
35923	Valves (engine intake and exhaust) .....	348.8	361.6	399.1	419.7	362.4	6
35920	Carburetors, pistons, rings, and valves, n.s.k. ....	48.3	55.5	55.5	59.5	51.5	37
<b>3593–</b>	<b>Fluid power cylinders and actuators</b> .....	<b>2 215.3</b>	<b>2 154.2</b>	<b>2 032.4</b>	<b>1 893.9</b>	<b>1 803.7</b>	<b>7</b>
35932	Aerospace-type fluid power cylinders and actuators, hydraulic and pneumatic <sup>3</sup> .....	456.0	465.5	378.3	436.8	436.2	9
35934	Nonaerospace-type hydraulic fluid power cylinders and actuators, linear and rotary <sup>3</sup> .....	1 026.0	1 002.1	870.0	750.4	724.4	7
35935	Nonaerospace-type pneumatic fluid power cylinders and actuators, linear and rotary <sup>3</sup> .....	398.0	361.9	420.7	322.9	308.6	27
35939	Parts for hydraulic and pneumatic fluid power cylinders and actuators <sup>3</sup> .....	261.6	254.9	267.6	233.2	217.1	15
35930	Fluid power cylinders and actuators, n.s.k. ....	73.6	69.7	95.9	150.5	117.3	35
<b>3594–</b>	<b>Fluid power pumps, motors, and hydrostatic transmission components</b> .....	<b>1 988.2</b>	<b>2 008.7</b>	<b>1 766.6</b>	<b>1 479.8</b>	<b>1 483.1</b>	<b>8</b>
35943	Nonaerospace-type reciprocating pumps <sup>3</sup> .....	508.3	498.4	394.3	290.3	273.1	6
35944	Nonaerospace-type rotary and other fluid power pumps <sup>3</sup> .....	368.8	387.0	399.3	413.0	392.5	15
35945	Nonaerospace-type fluid power motors <sup>3</sup> .....	557.1	576.3	461.8	256.7	248.5	22
35946	Aerospace-type fluid power pumps and motors <sup>3</sup> .....	137.3	126.0	106.5	93.2	150.8	2
35949	Parts for fluid power pumps, motors, and hydrostatic transmissions <sup>3</sup> .....	371.1	373.2	341.0	289.4	314.7	9
35940	Fluid power pumps, motors, and hydrostatic transmission components, n.s.k. ....	45.7	47.7	63.7	137.1	103.5	32
<b>3596–</b>	<b>Scales and balances, except laboratory</b> .....	<b>581.5</b>	<b>595.5</b>	<b>589.0</b>	<b>660.1</b>	<b>632.5</b>	<b>14</b>
35961	Vehicle and industrial scales .....	286.3	296.4	242.0	278.1	273.5	25
35962	Retail, commercial, household, and mailing scales .....	164.5	174.5	225.2	231.3	202.7	15
35963	Parts, attachments, and accessories for scales and balances .....	84.3	80.6	74.8	92.3	121.0	26
35960	Scales and balances, except laboratory, n.s.k. ....	46.5	44.0	47.0	58.4	35.3	1
<b>3599–</b>	<b>Machinery, except electrical, n.e.c.</b> .....	<b>29 216.4</b>	<b>26 973.9</b>	<b>22 571.8</b>	<b>19 195.3</b>	<b>18 223.8</b>	<b>4</b>
35994	Miscellaneous machinery products (including flexible metal hose and tubing, metal bellows, etc.) .....	3 932.1	3 614.3	2 681.9	1 498.8	1 826.2	15
35995	Receipts for machine shop job work and job order repairs .....	19 763.2	18 470.0	15 789.1	12 794.2	12 483.8	4
35990	Machinery, except electrical, n.e.c., n.s.k. ....	5 521.1	4 889.6	4 100.8	4 902.3	3 913.7	5

See footnotes at end of table.





**Table 1. Value of Shipments for Product Classes: 1992 to 1996—Con.**

[For meaning of abbreviations and symbols and explanation of terms, see introductory text]

Industry and product class code	Description	Value of product shipments (million dollars)					Standard error of estimate <sup>1</sup> (percent) for column—
		1996	1995	1994	1993	1992	
		A	B	C	D	E	
<b>36</b>	<b>ELECTRONIC AND OTHER ELECTRIC EQUIPMENT—Con.</b>						
<b>3692–36920</b>	<b>Primary batteries, dry and wet</b> .....	<b>2 153.8</b>	<b>1 927.5</b>	<b>1 969.0</b>	<b>2 147.2</b>	<b>1 925.0</b>	<b>11</b>
	Primary batteries, dry and wet .....	2 153.8	1 927.5	1 969.0	2 147.2	1 925.0	11
<b>3694–36940</b>	<b>Engine electrical equipment</b> .....	<b>8 469.2</b>	<b>7 760.1</b>	<b>8 232.0</b>	<b>7 372.7</b>	<b>6 590.8</b>	<b>2</b>
36941	Ignition harness and cable sets .....	1 188.7	1 248.4	1 215.9	951.1	936.3	4
36942	Battery charging alternators, generators, and regulators .....	1 472.5	1 325.9	1 535.3	1 399.6	1 149.0	1
36943	Cranking motors (starters) .....	1 127.3	855.3	987.6	1 036.6	902.3	2
36944	Spark plugs .....	456.5	429.9	432.3	449.5	411.8	1
36947	Complete engine electrical equipment, n.e.c. ....	3 441.2	3 082.3	3 150.2	2 637.6	2 524.2	1
36949	Parts for engine electrical and/or electronic equipment .....	576.4	600.4	703.7	562.5	430.2	9
36940	Engine electrical equipment, n.s.k. ....	206.5	217.9	207.0	335.8	237.0	17
<b>3695–36950</b>	<b>Magnetic and optical recording media</b> .....	<b>5 509.0</b>	<b>5 241.2</b>	<b>4 972.3</b>	<b>4 589.4</b>	<b>4 406.9</b>	<b>3</b>
	Magnetic and optical recording media (unrecorded) <sup>3</sup> .....	5 509.0	5 241.2	4 972.3	4 589.4	4 406.9	3
<b>3699–36991</b>	<b>Electronic and electrical equipment and supplies, n.e.c.</b> .....	<b>5 159.4</b>	<b>5 000.9</b>	<b>4 592.7</b>	<b>4 616.3</b>	<b>4 687.5</b>	<b>5</b>
	Electronic teaching machines, teaching aids, trainers, and simulators, including kits <sup>3</sup> .....	800.0	867.1	839.7	932.2	1 244.9	3
36992	Laser systems and equipment, except communication <sup>3</sup> .....	1 302.1	1 095.0	899.2	818.9	735.6	13
36995	Ultrasonic equipment (except medical and dental) <sup>3</sup> .....	244.9	206.1	154.6	123.3	131.6	31
36996	Apparatus wire and cordage manufactured from purchased insulated wire <sup>2</sup> .....	431.0	376.5	390.6	321.6	332.4	11
36999	Electronic systems and equipment, n.e.c. (including automatic garage door openers, and amplifiers) <sup>3</sup> .....	1 276.5	1 303.3	1 256.2	1 203.5	1 146.2	7
3699A	Electrical products, n.e.c. (excluding garage door openers) .....	513.2	580.5	524.3	549.9	516.0	16
36990	Electrical machinery, equipment, and supplies, not elsewhere classified, n.s.k. ....	591.7	572.4	528.1	666.9	580.8	12
<b>37</b>	<b>TRANSPORTATION EQUIPMENT</b>						
<b>3711–37111</b>	<b>Motor vehicles and car bodies</b> .....	<b>198 112.3</b>	<b>198 252.2</b>	<b>194 977.3</b>	<b>163 324.0</b>	<b>147 447.1</b>	<b>1</b>
	Passenger cars, knockdown or assembled, chassis for sale separately and passenger car bodies .....	97 992.7	101 963.5	106 889.0	89 033.9	84 069.4	1
37113	Buses, including military and firefighting vehicles (chassis of own manufacture) ..	1 707.1	1 574.2	1 479.4	1 300.8	1 177.2	2
37114	Combat vehicles and wheeled tactical vehicles or carriers .....	(D)	(D)	(D)	(D)	(D)	(X)
37116	Trucks, truck tractors, and bus chassis (chassis of own manufacture) 10,000 pounds or less .....	82 878.5	75 073.5	68 823.3	56 322.1	49 234.4	1
37117	Trucks, truck tractors, and bus chassis (chassis of own manufacture) 10,001 to 19,500 pounds .....	(D)	(D)	(D)	(D)	(D)	(X)
37118	Trucks, truck tractors, and bus chassis (chassis of own manufacture) 19,501 to 33,000 pounds .....	(D)	(D)	(D)	(D)	(D)	(X)
37119	Trucks, truck tractors, and bus chassis (chassis of own manufacture) 33,001 pounds or more .....	9 282.6	10 731.9	9 794.1	7 996.5	6 321.8	1
37110	Motor vehicles and car bodies, n.s.k. ....	(D)	(D)	(D)	(D)	(D)	(X)
<b>3713–37131</b>	<b>Truck and bus bodies</b> .....	<b>7 817.2</b>	<b>7 391.7</b>	<b>6 330.0</b>	<b>5 358.3</b>	<b>4 181.5</b>	<b>9</b>
	Truck, bus, and other vehicle bodies (except passenger car bodies) for sale separately .....	4 962.1	4 994.9	4 082.8	3 089.1	2 176.3	2
37132	Complete vehicles produced on purchased chassis .....	2 486.0	1 983.5	1 828.0	1 747.3	1 550.6	28
37130	Truck and bus bodies, n.s.k. ....	369.1	413.4	419.2	521.8	454.6	10
<b>3714–3714A</b>	<b>Motor vehicle parts and accessories</b> .....	<b>109 245.7</b>	<b>106 837.0</b>	<b>98 016.1</b>	<b>85 479.6</b>	<b>74 733.1</b>	<b>1</b>
37142	Gasoline engines and gasoline engine parts for motor vehicles, new .....	24 258.8	22 694.2	21 671.4	20 149.4	17 243.7	1
37144	Filters for internal combustion engines and motor vehicles, new .....	2 205.6	2 098.8	2 227.0	2 249.5	2 155.5	1
37145	Exhaust system parts, new .....	4 374.1	4 056.1	3 989.2	3 504.3	3 187.6	2
37146	Drive train components, new, except wheels and brakes .....	28 713.1	29 529.4	25 997.2	22 683.2	19 647.6	2
37147	Motor vehicle wheels, new .....	2 814.1	2 836.7	2 629.7	2 243.5	1 943.2	3
37148	Brake parts and assemblies, new .....	9 155.2	8 989.6	8 478.6	7 196.9	6 030.6	2
37149	All other motor vehicle parts and accessories, new, n.e.c. ....	33 439.9	32 578.0	29 294.0	23 329.7	20 909.3	2
3714A	Rebuilt parts for motor vehicles, excluding carburetors and engine electrical equipment .....	1 908.7	1 917.5	1 763.6	1 421.2	1 427.0	5
37140	Motor vehicle parts and accessories, n.s.k. ....	2 376.2	2 136.6	1 965.4	2 702.1	2 188.6	4
<b>3715–37150</b>	<b>Truck trailers</b> .....	<b>4 946.5</b>	<b>6 072.1</b>	<b>4 923.3</b>	<b>3 938.9</b>	<b>3 175.9</b>	<b>4</b>
	Truck trailers and chassis, with axle rating of 10,000 pounds or more .....	4 316.7	5 477.5	4 514.9	3 584.8	2 859.7	3
37152	Truck trailers and chassis, with axle rating of less than 10,000 pounds .....	248.7	242.2	177.6	118.2	122.0	39
37150	Truck trailers, n.s.k. ....	381.1	352.4	230.9	235.9	194.1	20
<b>3716–37160</b>	<b>Motor homes produced on purchased chassis</b> .....	<b>3 645.6</b>	<b>3 312.9</b>	<b>3 639.8</b>	<b>3 440.6</b>	<b>3 164.0</b>	<b>5</b>
	Motor homes built on purchased chassis .....	3 645.6	3 312.9	3 639.8	3 440.6	3 164.0	5
<b>3721–37210</b>	<b>Aircraft</b> .....	<b>44 583.6</b>	<b>44 456.5</b>	<b>46 813.7</b>	<b>51 005.9</b>	<b>56 569.3</b>	<b>1</b>
	Military aircraft .....	15 362.5	15 358.8	15 902.3	14 776.3	16 664.6	2
37215	Civilian aircraft <sup>3</sup> .....	21 235.6	19 152.8	20 859.7	26 758.2	31 362.6	1
37217	Modification, conversion, and overhaul of previously accepted aircraft .....	3 576.5	4 405.3	4 374.1	4 332.9	3 860.2	2
37218	Other aeronautical services on complete aircraft, n.e.c. ....	4 171.4	5 241.4	5 490.5	4 670.0	4 443.0	1
37210	Aircraft, n.s.k. ....	237.6	298.1	187.1	468.5	238.9	16
<b>3724–37240</b>	<b>Aircraft engines and engine parts</b> .....	<b>17 016.5</b>	<b>15 810.7</b>	<b>15 218.3</b>	<b>17 995.2</b>	<b>20 932.6</b>	<b>1</b>
	Aircraft engines for military aircraft .....	1 838.7	1 591.6	1 763.8	2 414.3	3 260.4	2
37242	Aircraft engines for civilian aircraft <sup>3</sup> .....	5 226.4	4 852.6	4 673.0	5 293.9	6 667.5	2
37243	Aeronautical services on aircraft engines .....	2 250.1	1 921.4	1 905.4	2 568.5	2 678.5	1
37244	Aircraft engine parts and accessories .....	7 368.6	7 211.0	6 646.8	7 434.2	7 965.2	2
37240	Aircraft engines and engine parts, n.s.k. ....	332.7	234.0	229.4	284.3	360.9	12
<b>3728–37280</b>	<b>Aircraft parts and auxiliary equipment, n.e.c.</b> .....	<b>18 831.6</b>	<b>17 701.4</b>	<b>17 710.0</b>	<b>18 683.5</b>	<b>21 940.2</b>	<b>1</b>
	Aircraft propellers and helicopter rotors .....	342.5	337.4	312.0	404.1	532.3	2
37283	Research and development on aircraft parts (except engines) .....	1 797.9	1 222.0	1 048.5	821.3	1 311.1	1
37284	Aircraft hydraulic and pneumatic subassemblies .....	1 299.6	1 246.7	919.7	933.4	1 055.3	3
37285	Aircraft parts and auxiliary equipment, excluding hydraulic and pneumatic subassemblies and engines .....	14 760.3	14 211.1	14 774.6	15 702.3	18 246.7	2
37280	Aircraft parts and auxiliary equipment, n.e.c., n.s.k. ....	631.3	684.2	655.2	822.5	794.8	10
<b>3731–37310</b>	<b>Ship building and repairing<sup>4</sup></b> .....	<b>9 721.5</b>	<b>9 589.5</b>	<b>9 876.5</b>	<b>9 801.3</b>	<b>10 381.3</b>	<b>4</b>
	Nonpropelled ships, new construction .....	813.7	559.0	588.4	477.0	449.3	19
37312	Self-propelled ships, U.S. military, new construction .....	5 247.5	5 638.7	5 953.7	5 705.6	6 034.1	1
37313	Self-propelled ships, nonmilitary, new construction .....	602.0	459.6	573.0	678.4	648.3	5
37314	Ship repair, military .....	1 843.2	1 769.8	1 718.5	1 672.6	1 968.7	4
37316	Ship repair, nonmilitary .....	1 057.3	995.7	893.4	881.9	881.1	7
37310	Ship building and repairing, n.s.k. ....	158.0	166.8	149.5	385.9	399.8	(A)

See footnotes at end of table.



**Table 1. Value of Shipments for Product Classes: 1992 to 1996—Con.**

[For meaning of abbreviations and symbols and explanation of terms, see introductory text]

Industry and product class code	Description	Value of product shipments (million dollars)					Standard error of estimate <sup>1</sup> (percent) for column—
		1996	1995	1994	1993	1992	
		A	B	C	D	E	
<b>37</b>	<b>TRANSPORTATION EQUIPMENT—Con.</b>						
<b>3732–37322</b>	<b>Boat building and repairing</b> . . . . .	<b>5 214.4</b>	<b>5 072.4</b>	<b>4 887.4</b>	<b>4 632.2</b>	<b>4 331.0</b>	<b>3</b>
	Outboard motorboats, including commercial and military (except sailboats with auxiliary power and lifeboats) . . . . .	1 293.5	1 259.8	1 313.2	1 242.0	1 163.9	5
37323	Inboard motorboats . . . . .	1 143.9	1 043.1	897.8	707.8	732.2	7
37324	Inboard-outdrive boats . . . . .	1 296.0	1 259.8	1 184.2	1 069.5	1 040.0	5
37327	All other boats (excluding military and commercial) . . . . .	366.6	365.0	351.8	305.7	259.1	14
37328	Boat repair, military and nonmilitary . . . . .	294.8	298.5	374.5	353.8	349.7	28
37320	Boat building and repairing, n.s.k. . . . .	819.8	846.2	766.0	953.4	786.1	6
<b>3743–37431</b>	<b>Railroad equipment</b> . . . . .	<b>6 482.7</b>	<b>6 720.7</b>	<b>5 995.4</b>	<b>4 884.0</b>	<b>4 329.8</b>	<b>1</b>
	Locomotives, both new and rebuilt, and parts . . . . .	2 321.0	2 271.0	2 103.6	1 682.4	1 618.4	2
37432	Freight train and passenger train cars, new, excluding parts . . . . .	2 582.7	2 756.0	2 474.7	1 750.2	1 491.0	1
37433	Street, subway, trolley, and rapid transit cars, all rebuilt railcars, and parts for all railcars . . . . .	1 508.5	1 618.3	1 331.0	1 304.0	1 130.4	3
37430	Railroad equipment, n.s.k. . . . .	70.4	75.4	86.1	147.3	90.0	23
<b>3751–37511</b>	<b>Motorcycles, bicycles, and parts</b> . . . . .	<b>2 839.1</b>	<b>2 653.6</b>	<b>2 548.8</b>	<b>2 639.7</b>	<b>2 153.0</b>	<b>3</b>
	Bicycles and parts (excluding children's two-wheel sidewalk cycles with solid or semipneumatic tires) . . . . .	995.7	1 048.0	1 102.7	1 082.9	1 023.2	2
37512	Motorcycles, motorbikes, motor scooters, mopeds, and parts . . . . .	1 585.2	1 387.3	1 228.2	1 277.3	968.4	3
37510	Motorcycles, bicycles, and parts, n.s.k. . . . .	258.2	218.4	217.9	279.5	161.4	16
<b>3761–37611</b>	<b>Guided missiles and space vehicles</b> . . . . .	<b>10 536.1</b>	<b>11 756.4</b>	<b>10 982.9</b>	<b>13 452.4</b>	<b>13 972.1</b>	<b>1</b>
	Complete missiles . . . . .	1 480.1	2 245.7	2 769.2	2 476.8	4 064.8	1
37612	Complete space vehicles (excluding propulsion systems) . . . . .	5 209.0	5 480.4	4 918.5	6 014.6	5 797.1	1
37613	Research and development on complete missiles . . . . .	1 518.2	1 518.1	875.6	2 010.3	1 351.8	1
37614	Research and development on complete space vehicles . . . . .	642.4	737.1	608.4	758.1	588.2	1
37616	All other services on complete guided missiles . . . . .	1 032.7	1 091.4	1 172.7	1 241.8	1 354.8	1
37617	All other services on complete space vehicles . . . . .	653.6	681.7	623.4	858.3	814.8	1
37610	Guided missiles and space vehicles, n.s.k. . . . .	(Z)	2.0	15.0	92.4	.5	(A)
<b>3764–37645</b>	<b>Space propulsion units and parts</b> . . . . .	<b>2 803.0</b>	<b>2 984.0</b>	<b>3 705.0</b>	<b>5 862.4</b>	<b>5 206.6</b>	<b>1</b>
	Complete missile or space vehicle engines and/or propulsion units . . . . .	1 515.9	1 785.2	2 041.4	2 506.3	2 649.5	1
37646	Research and development on complete missile or space vehicle engines and/or propulsion units . . . . .	664.9	594.8	671.6	631.9	620.4	1
37647	Other services on complete missile or space vehicle engines and/or propulsion units . . . . .	224.1	223.9	448.7	2 186.3	1 304.6	1
37648	Missile and space vehicle engine and/or propulsion parts and accessories . . . . .	383.4	371.5	528.1	523.4	626.2	1
37640	Space propulsion units and parts, n.s.k. . . . .	14.7	8.6	15.2	14.5	5.9	1
<b>3769–37692</b>	<b>Space vehicle equipment, n.e.c.</b> . . . . .	<b>2 451.4</b>	<b>2 602.4</b>	<b>2 726.5</b>	<b>3 312.7</b>	<b>4 179.1</b>	<b>2</b>
	Missile and space vehicle components, parts, and subassemblies . . . . .	2 054.5	2 173.9	2 389.6	2 813.2	3 449.5	2
37694	Research and development on missile and space vehicle parts and components, n.e.c. . . . .	377.8	411.0	322.5	477.4	705.1	4
37690	Space vehicle equipment, n.e.c., n.s.k. . . . .	19.1	17.5	14.4	22.1	24.5	14
<b>3792–37921</b>	<b>Travel trailers and campers</b> . . . . .	<b>2 515.9</b>	<b>2 547.0</b>	<b>2 644.0</b>	<b>2 344.6</b>	<b>2 151.8</b>	<b>5</b>
	Travel trailers . . . . .	1 685.1	1 744.0	1 838.8	1 626.0	1 465.4	7
37922	Camping trailers, campers, pickup covers, and parts . . . . .	698.0	664.4	646.7	603.5	585.7	5
37920	Travel trailers and campers, n.s.k. . . . .	132.8	138.6	158.5	115.1	100.8	11
<b>3795–37950</b>	<b>Tanks and tank components</b> . . . . .	<b>1 363.1</b>	<b>1 564.1</b>	<b>1 897.0</b>	<b>2 284.0</b>	<b>2 700.1</b>	<b>2</b>
	Tanks and tank components . . . . .	1 363.1	1 564.1	1 897.0	2 284.0	2 700.1	2
<b>3799–37993</b>	<b>Transportation equipment, n.e.c.</b> . . . . .	<b>4 861.3</b>	<b>4 223.9</b>	<b>3 673.0</b>	<b>3 483.0</b>	<b>2 820.7</b>	<b>6</b>
	Golf carts and industrial in-plant personnel carriers, self-propelled, and parts . . . . .	685.9	588.1	558.0	482.1	382.4	1
37996	Automobile and light truck trailers . . . . .	881.4	736.1	639.4	731.3	686.1	28
37999	Transportation equipment, n.e.c., including all-terrain vehicles . . . . .	2 854.5	2 516.2	2 087.0	1 763.8	1 439.6	5
37990	Transportation equipment, n.e.c., n.s.k. . . . .	439.5	383.6	388.5	505.8	312.6	15
<b>38</b>	<b>INSTRUMENTS AND RELATED PRODUCTS</b>						
<b>3812–38121</b>	<b>Search, detection, navigation, guidance, aeronautical, and nautical systems, instruments, and equipment</b> . . . . .	<b>26 652.5</b>	<b>27 754.6</b>	<b>29 159.7</b>	<b>31 203.2</b>	<b>34 171.4</b>	<b>1</b>
	Aeronautical, nautical, and navigational instruments, not sending or receiving radio signals <sup>3</sup> . . . . .	2 328.6	2 112.7	2 121.9	2 191.6	2 553.9	4
38122	Search, detection, navigation, and guidance systems and equipment <sup>3</sup> . . . . .	23 912.1	25 172.8	26 550.5	28 441.4	31 032.4	1
38120	Search, detection, navigation, guidance, aeronautical, and nautical systems, instruments, and equipment, n.s.k. . . . .	411.8	469.1	487.3	570.2	585.1	20
<b>3821–38210</b>	<b>Laboratory apparatus and furniture</b> . . . . .	<b>2 119.1</b>	<b>1 982.0</b>	<b>1 941.1</b>	<b>1 832.7</b>	<b>1 845.5</b>	<b>7</b>
	Laboratory apparatus and furniture <sup>3</sup> . . . . .	2 119.1	1 982.0	1 941.1	1 832.7	1 845.5	7
<b>3822–38220</b>	<b>Environmental controls</b> . . . . .	<b>2 920.2</b>	<b>2 739.6</b>	<b>2 755.0</b>	<b>2 432.7</b>	<b>2 370.0</b>	<b>5</b>
	Automatic controls for monitoring residential and commercial environments and appliance regulating controls <sup>3</sup> . . . . .	2 920.2	2 739.6	2 755.0	2 432.7	2 370.0	5
<b>3823–38230</b>	<b>Process control instruments</b> . . . . .	<b>7 455.7</b>	<b>6 923.2</b>	<b>6 599.3</b>	<b>6 213.1</b>	<b>5 996.6</b>	<b>4</b>
	Process control instruments <sup>3</sup> . . . . .	7 455.7	6 923.2	6 599.3	6 213.1	5 996.6	4
<b>3824–38242</b>	<b>Fluid meters and counting devices</b> . . . . .	<b>3 546.9</b>	<b>3 513.2</b>	<b>3 508.8</b>	<b>3 065.5</b>	<b>2 731.3</b>	<b>3</b>
	Integrating and totalizing meters for gas and liquids <sup>3</sup> . . . . .	972.2	931.8	889.3	803.1	773.3	4
38243	Counting devices <sup>3</sup> . . . . .	369.7	382.1	344.5	285.2	272.0	10
38244	Motor vehicle instruments <sup>3</sup> . . . . .	2 124.5	2 139.6	2 203.1	1 832.9	1 593.4	3
38240	Fluid meters and counting devices, n.s.k. . . . .	80.4	59.8	71.9	144.3	92.6	54
<b>3825–38251</b>	<b>Instruments to measure electricity</b> . . . . .	<b>11 964.4</b>	<b>10 881.6</b>	<b>9 019.5</b>	<b>8 179.8</b>	<b>7 984.9</b>	<b>6</b>
	Integrating instruments, electrical <sup>3</sup> . . . . .	532.4	510.5	497.7	464.8	441.1	10
38252	Test equipment for testing electrical, radio, and communication circuits, and motors <sup>3</sup> . . . . .	10 306.7	9 293.7	7 481.0	6 656.5	6 581.3	6
38253	Other instruments to measure electricity <sup>3</sup> . . . . .	564.6	542.9	530.0	533.3	527.5	12
38250	Instruments to measure electricity, n.s.k. . . . .	560.7	534.6	510.8	525.2	434.9	11
<b>3826–38260</b>	<b>Analytical instruments</b> . . . . .	<b>6 650.0</b>	<b>6 526.6</b>	<b>5 647.4</b>	<b>5 267.3</b>	<b>5 126.4</b>	<b>2</b>
	Analytical and scientific instruments, except optical <sup>3</sup> . . . . .	6 650.0	6 526.6	5 647.4	5 267.3	5 126.4	2
<b>3827–38271</b>	<b>Optical instruments and lenses</b> . . . . .	<b>2 681.8</b>	<b>2 553.6</b>	<b>2 425.0</b>	<b>2 553.9</b>	<b>2 508.8</b>	<b>14</b>
	Sighting, tracking, and fire-control equipment, optical-type <sup>3</sup> . . . . .	593.3	646.6	653.0	839.8	825.7	28
38274	Optical instruments and lenses, n.e.c. <sup>3</sup> . . . . .	1 948.4	1 784.1	1 657.7	1 549.8	1 601.2	17
38270	Optical instruments and lenses, n.s.k. . . . .	140.1	122.9	114.3	164.3	81.9	10

See footnotes at end of table.

**Table 1. Value of Shipments for Product Classes: 1992 to 1996—Con.**

[For meaning of abbreviations and symbols and explanation of terms, see introductory text]

Industry and product class code	Description	Value of product shipments (million dollars)					Standard error of estimate <sup>1</sup> (percent) for column— A
		1996	1995	1994	1993	1992	
		A	B	C	D	E	
<b>38</b>	<b>INSTRUMENTS AND RELATED PRODUCTS—Con.</b>						
<b>3829–</b>	<b>Measuring and controlling devices, n.e.c.</b> .....	<b>4 889.2</b>	<b>4 626.9</b>	<b>4 317.5</b>	<b>4 359.3</b>	<b>4 350.2</b>	<b>5</b>
38291	Aircraft engine instruments, except flight <sup>3</sup> .....	531.9	454.9	492.9	572.7	624.2	10
38292	Physical properties testing and inspection equipment and kinematic testing and measuring equipment <sup>3</sup> .....	1 559.7	1 462.0	1 226.6	1 196.5	1 169.1	10
38294	Nuclear radiation detection and monitoring instruments <sup>3</sup> .....	520.7	517.9	526.6	538.8	580.7	9
38295	Commercial, geophysical, meteorological, and general-purpose instruments <sup>3</sup> .....	1 414.0	1 363.8	1 318.6	1 317.3	1 435.5	6
38296	Survey and drafting instruments and associated equipment <sup>3</sup> .....	440.2	391.2	372.6	287.6	243.5	19
38290	Measuring and controlling devices, n.e.c., n.s.k. ....	422.7	437.1	380.2	446.3	297.3	7
<b>3841–</b>	<b>Surgical and medical instruments</b> .....	<b>16 191.6</b>	<b>14 935.9</b>	<b>14 264.0</b>	<b>14 759.0</b>	<b>13 275.9</b>	<b>3</b>
38411	Surgical and medical instruments and apparatus .....	14 796.4	13 501.0	12 594.9	12 749.7	11 769.6	2
38412	Hospital furniture .....	504.8	489.6	405.8	398.0	415.8	5
38410	Surgical and medical instruments, n.s.k. ....	890.3	945.3	1 263.3	1 611.3	1 090.5	29
<b>3842–</b>	<b>Surgical appliances and supplies</b> .....	<b>14 304.4</b>	<b>13 317.1</b>	<b>13 144.9</b>	<b>13 284.6</b>	<b>12 437.8</b>	<b>4</b>
38421	Surgical, orthopedic, prosthetic, and therapeutic appliances and supplies .....	11 621.9	10 697.7	10 433.3	9 868.2	9 654.5	5
38423	Personal industrial safety devices .....	1 277.2	1 271.3	1 352.2	1 454.9	1 345.2	8
38424	Electronic hearing aids .....	476.1	476.3	404.6	387.8	376.6	3
38420	Surgical appliances and supplies, n.s.k. ....	929.1	871.7	954.9	1 573.7	1 061.5	11
<b>3843–</b>	<b>Dental equipment and supplies</b> .....	<b>2 171.8</b>	<b>2 026.5</b>	<b>1 917.0</b>	<b>1 664.2</b>	<b>1 620.6</b>	<b>7</b>
38431	Dental professional equipment and supplies .....	1 460.2	1 311.9	1 084.2	1 018.5	998.8	8
38432	Dental laboratory equipment and supplies .....	539.8	516.0	456.2	408.9	415.4	10
38430	Dental equipment and supplies, n.s.k. ....	171.8	198.6	376.6	236.7	206.5	25
<b>3844–</b>	<b>X-ray apparatus and tubes</b> .....	<b>2 960.4</b>	<b>2 695.0</b>	<b>2 493.8</b>	<b>2 510.4</b>	<b>2 360.1</b>	<b>3</b>
38440	Irradiation (ionizing radiation) equipment, including X-ray, beta ray, gamma ray, and nuclear <sup>3</sup> .....	2 960.4	2 695.0	2 493.8	2 510.4	2 360.1	3
<b>3845–</b>	<b>Electromedical equipment</b> .....	<b>8 501.5</b>	<b>6 988.1</b>	<b>6 894.9</b>	<b>6 514.6</b>	<b>6 306.3</b>	<b>11</b>
38450	Electromedical equipment (diagnostic, therapeutic, patient monitoring, etc.), excluding ionizing radiation equipment <sup>3</sup> .....	8 501.5	6 988.1	6 894.9	6 514.6	6 306.3	11
<b>3851–</b>	<b>Ophthalmic goods</b> .....	<b>2 858.3</b>	<b>2 677.2</b>	<b>2 635.2</b>	<b>2 658.7</b>	<b>2 390.0</b>	<b>4</b>
38511	Ophthalmic fronts and temples .....	246.8	222.5	197.4	206.7	174.5	21
38514	Glass ophthalmic focus lenses .....	174.5	163.9	164.3	156.1	158.1	6
38515	Plastics ophthalmic focus lenses .....	569.3	525.0	542.8	519.9	424.9	5
38516	Contact lenses .....	1 138.8	1 125.2	1 065.0	1 020.1	923.7	1
38517	Ophthalmic goods, except fronts, temples, and lenses .....	457.9	419.6	356.5	383.8	403.1	16
38510	Ophthalmic goods, n.s.k. ....	271.0	220.9	309.2	372.2	305.8	11
<b>3861–</b>	<b>Photographic equipment and supplies</b> .....	<b>19 128.7</b>	<b>19 159.2</b>	<b>20 226.5</b>	<b>19 686.0</b>	<b>18 861.1</b>	<b>3</b>
38611	Still picture equipment .....	888.3	937.1	893.2	1 029.1	928.8	9
38612	Photocopying equipment (includes diffusion transfer, dye transfer, electrostatic, light and heat sensitive types, etc.) .....	(D)	(D)	(D)	(D)	(D)	(X)
38613	Motion picture equipment .....	234.4	202.6	172.6	251.5	212.6	15
38614	Microfilming, blueprinting, and whiteprinting equipment .....	(D)	(D)	(D)	(D)	(D)	(X)
38615	Photographic sensitized film and plates, silver halide type (except X-ray) .....	6 266.0	5 656.6	5 527.8	5 302.9	5 574.3	6
38616	Sensitized photographic paper and cloth, silver halide type .....	(D)	(D)	(D)	(D)	(D)	(X)
38617	Sensitized photographic film, plates, paper, and cloth, other than silver halide type .....	1 423.5	1 463.2	1 420.7	1 506.7	1 335.0	12
38618	Prepared photographic chemicals .....	2 458.7	2 748.1	2 525.7	2 250.7	1 862.3	1
38619	X-ray film and plates .....	(D)	(D)	(D)	(D)	(D)	(X)
38610	Photographic equipment and supplies, n.s.k. ....	730.1	743.6	983.8	1 007.4	765.4	8
<b>3873–</b>	<b>Watches, clocks, watchcases, and parts</b> .....	<b>616.7</b>	<b>658.6</b>	<b>705.0</b>	<b>696.8</b>	<b>658.2</b>	<b>7</b>
38731	Watches, watchcases, movements or modules, and watch parts .....	113.7	108.8	119.4	114.0	107.6	4
38732	Clocks, timing mechanisms, time switches, clock movements, clock cases, and parts .....	409.4	435.5	464.1	460.3	460.3	6
38730	Watches, clocks, watchcases, and parts, n.s.k. ....	93.6	114.2	121.4	122.5	90.3	37
<b>39</b>	<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b>						
<b>3911–</b>	<b>Jewelry, precious metal</b> .....	<b>4 015.8</b>	<b>4 034.3</b>	<b>4 062.8</b>	<b>4 006.2</b>	<b>3 739.4</b>	<b>6</b>
39111	Jewelry, made of platinum metals and karat gold .....	3 097.8	3 078.9	2 933.8	2 744.0	2 639.6	6
39113	Jewelry made of silver (including platinum metals and karat gold clad to silver) .....	203.5	172.5	251.1	229.6	236.3	34
39114	Other jewelry, except costume .....	234.3	258.6	249.9	233.3	226.0	20
39110	Jewelry, precious metal, n.s.k. ....	480.2	524.3	628.0	799.3	636.7	22
<b>3914–</b>	<b>Silverware and plated ware</b> .....	<b>649.9</b>	<b>603.7</b>	<b>585.3</b>	<b>536.5</b>	<b>543.7</b>	<b>6</b>
39141	Hollowware (including toiletware, ecclesiastical ware, novelties, trophies, baby goods, and other plated ware) .....	305.4	269.1	271.5	231.2	232.3	11
39142	Flatware (including all knives, forks, spoons, and carving sets made wholly of metal) .....	312.8	306.4	281.5	257.6	277.1	2
39140	Silverware and plated ware, n.s.k. ....	31.7	28.2	32.3	47.8	34.4	10
<b>3915–</b>	<b>Jewelers' materials and lapidary work</b> .....	<b>947.3</b>	<b>931.8</b>	<b>844.1</b>	<b>740.7</b>	<b>866.5</b>	<b>14</b>
39152	Lapidary work and diamond cutting and polishing .....	257.3	256.4	244.5	137.9	152.5	12
39153	Jewelers' findings and materials of precious metal .....	572.2	522.5	447.6	420.6	548.7	22
39154	Jewelers' findings and materials of base metal .....	66.2	78.3	68.5	85.1	89.4	15
39150	Jewelers' materials and lapidary work, n.s.k. ....	51.6	74.7	83.5	97.1	75.8	15
<b>3931–</b>	<b>Musical instruments</b> .....	<b>1 181.6</b>	<b>1 166.9</b>	<b>977.2</b>	<b>965.2</b>	<b>901.6</b>	<b>10</b>
39311	Pianos .....	170.5	160.8	170.2	152.3	140.5	5
39312	Organs .....	56.6	64.9	84.4	73.3	87.0	24
39313	Piano and organ parts .....	48.9	51.7	32.8	29.1	29.3	6
39314	Other musical instruments and parts .....	811.3	804.3	609.2	577.8	576.0	14
39310	Musical instruments, n.s.k. ....	94.3	85.2	80.7	132.7	68.8	18
<b>3942–</b>	<b>Dolls and stuffed toys</b> .....	<b>264.7</b>	<b>241.3</b>	<b>289.5</b>	<b>293.5</b>	<b>290.5</b>	<b>14</b>
39420	Dolls and toy animals, including accessories thereof .....	264.7	241.3	289.5	293.5	290.5	14
<b>3944–</b>	<b>Games, toys, and children's vehicles</b> .....	<b>3 889.6</b>	<b>4 253.6</b>	<b>3 880.1</b>	<b>3 954.7</b>	<b>3 692.9</b>	<b>5</b>
39443	Baby carriages and children's vehicles, except bicycles with pneumatic tires .....	442.4	470.8	544.0	548.3	497.4	24
39444	Toys: excluding games, hobbies, and electronic toys .....	1 761.6	2 021.6	1 802.5	1 738.5	1 736.4	5
39445	Hobbies: models (operating or static); craft, structural, and scientific equipment kits, sets, and individual units .....	628.5	626.3	432.3	478.7	452.3	8
39446	Nonelectronic games .....	604.3	690.1	634.6	660.5	632.3	12
39447	Electronic games and toys (excluding disks, tapes, and cartridges) .....	84.9	83.6	83.3	89.5	64.0	2
39440	Games, toys, and children's vehicles, n.s.k. ....	367.6	361.1	383.5	439.2	310.5	15

See footnotes at end of table.

**Table 1. Value of Shipments for Product Classes: 1992 to 1996—Con.**

[For meaning of abbreviations and symbols and explanation of terms, see introductory text]

Industry and product class code	Description	Value of product shipments (million dollars)					Standard error of estimate <sup>1</sup> (percent) for column— A
		1996	1995	1994	1993	1992	
		A	B	C	D	E	
<b>39</b>	<b>MISCELLANEOUS MANUFACTURING INDUSTRIES—Con.</b>						
<b>3949—</b>	<b>Sporting and athletic goods, n.e.c.</b>	<b>9 202.7</b>	<b>8 802.4</b>	<b>8 285.3</b>	<b>7 865.0</b>	<b>6 993.9</b>	<b>4</b>
39491	Fishing tackle and equipment	813.5	755.9	657.3	628.8	493.1	17
39492	Golf equipment	2 648.1	2 370.2	1 976.1	1 925.9	1 782.0	3
39493	Playground equipment	707.5	620.6	571.1	370.2	384.6	16
39494	Gymnasium and exercise equipment	1 359.9	1 342.6	1 369.8	1 406.6	1 375.9	15
39495	Other sporting and athletic goods	2 789.2	2 787.7	2 631.6	2 420.8	2 365.3	4
39490	Sporting and athletic goods, n.e.c., n.s.k.	884.6	925.5	1 079.3	1 112.8	593.1	7
<b>3951—</b>	<b>Pens and mechanical pencils</b>	<b>1 457.9</b>	<b>1 316.3</b>	<b>1 277.2</b>	<b>1 200.4</b>	<b>1 240.4</b>	<b>3</b>
39511	Pens	736.1	619.7	597.7	534.8	592.8	5
39512	Markers	461.2	449.6	429.9	359.6	366.3	3
39513	Other pens, mechanical pencils, and parts	235.4	223.8	220.3	264.4	260.8	6
39510	Pens and mechanical pencils, n.s.k.	25.1	23.3	29.3	41.7	20.4	9
<b>3952—</b>	<b>Lead pencils and art goods</b>	<b>746.9</b>	<b>715.3</b>	<b>687.0</b>	<b>674.9</b>	<b>648.3</b>	<b>3</b>
39523	Nonmechanical pencils, crayons, and chalk	364.1	347.0	338.6	361.8	348.0	5
39524	Artists' equipment	321.5	318.7	283.5	252.0	268.6	2
39520	Lead pencils and art goods, n.s.k.	61.3	49.6	65.0	61.1	31.7	11
<b>3953—</b>	<b>Marking devices</b>	<b>471.6</b>	<b>688.9</b>	<b>710.6</b>	<b>594.1</b>	<b>601.9</b>	<b>12</b>
39530	Hand stamps, stencils, and other marking devices	471.6	688.9	710.6	594.1	601.9	12
<b>3955—</b>	<b>Carbon paper and inked ribbons</b>	<b>1 213.3</b>	<b>1 138.0</b>	<b>998.3</b>	<b>815.5</b>	<b>871.6</b>	<b>20</b>
39551	Inked ribbons	796.9	795.7	770.3	615.4	690.8	1
39552	Carbon paper, stencil paper, etc.	372.6	299.9	174.9	140.2	148.3	64
39550	Carbon paper and inked ribbons, n.s.k.	43.8	42.3	53.1	59.9	32.4	1
<b>3961—</b>	<b>Costume jewelry</b>	<b>1 665.8</b>	<b>1 769.9</b>	<b>1 679.0</b>	<b>1 555.9</b>	<b>1 531.7</b>	<b>8</b>
39610	Costume jewelry and costume novelties (except precious metal)	1 665.8	1 769.9	1 679.0	1 555.9	1 531.7	8
<b>3965—</b>	<b>Fasteners, buttons, needles, and pins</b>	<b>949.8</b>	<b>948.2</b>	<b>842.7</b>	<b>867.3</b>	<b>827.5</b>	<b>7</b>
39651	Buttons and parts (except precious or semiprecious metals and precious or semiprecious stones)	207.0	193.8	116.2	152.2	152.0	27
39654	Zipper and slide fasteners	272.4	255.9	247.2	246.1	234.7	1
39656	Needles, pins, fasteners (except slide), and similar notions	414.5	444.9	423.1	393.2	407.4	2
39650	Fasteners, buttons, needles, and pins, n.s.k.	55.8	53.6	56.2	75.8	33.5	22
<b>3991—</b>	<b>Brooms and brushes</b>	<b>1 377.2</b>	<b>1 291.0</b>	<b>1 364.2</b>	<b>1 292.4</b>	<b>1 210.1</b>	<b>7</b>
39911	Brooms	249.6	176.3	180.5	189.9	167.7	14
39912	Paint and varnish brushes, rollers, and pads	334.4	375.9	387.0	435.8	384.6	22
39913	Other brushes	671.6	594.9	640.4	584.9	604.7	4
39910	Brooms and brushes, n.s.k.	121.6	143.9	156.4	81.9	53.0	20
<b>3993—</b>	<b>Signs and advertising specialties</b>	<b>6 467.5</b>	<b>6 206.1</b>	<b>5 771.4</b>	<b>5 072.3</b>	<b>4 939.3</b>	<b>5</b>
39931	Electric signs	1 939.2	1 773.6	1 615.6	1 376.9	1 282.9	8
39932	Nonelectric signs	2 451.5	2 510.9	2 232.8	1 675.2	1 793.3	10
39933	Advertising specialties	1 088.1	906.1	858.2	814.6	782.4	8
39930	Signs and advertising specialties, n.s.k.	988.6	1 015.6	1 064.7	1 205.6	1 080.7	6
<b>3995—</b>	<b>Burial caskets</b>	<b>1 164.0</b>	<b>1 152.1</b>	<b>1 092.7</b>	<b>1 076.5</b>	<b>1 020.9</b>	<b>3</b>
39951	Metal caskets and coffins completely lined and trimmed, adult sizes only	734.2	739.2	701.2	717.4	675.7	3
39952	Wood caskets and coffins, completely lined and trimmed, adult sizes only	292.7	272.6	252.3	233.7	222.9	4
39953	Other caskets and coffins and metal vaults	103.9	97.6	99.0	92.3	94.0	7
39950	Burial caskets, n.s.k.	33.3	42.7	40.2	33.1	28.3	10
<b>3996—</b>	<b>Hard surface floor coverings, n.e.c.</b>	<b>1 735.5</b>	<b>1 670.1</b>	<b>1 730.2</b>	<b>1 499.3</b>	<b>1 497.7</b>	<b>1</b>
39960	Hard floor covering	1 735.5	1 670.1	1 730.2	1 499.3	1 497.7	1
<b>3999—</b>	<b>Manufacturing industries, n.e.c.</b>	<b>6 732.0</b>	<b>6 135.7</b>	<b>5 599.1</b>	<b>5 547.9</b>	<b>4 985.3</b>	<b>4</b>
39991	Chemical fire-extinguishing equipment and parts	529.0	470.9	457.6	468.9	462.1	3
39992	Coin-operated amusement machines	906.4	825.8	948.4	807.6	578.2	5
39993	Matches	67.6	64.2	57.7	57.8	62.2	11
39994	Candles	556.7	500.8	417.8	421.6	366.2	14
39996	Furs, dressed and dyed	15.7	17.1	18.3	18.2	25.6	9
39997	Umbrellas and parasols	58.0	57.3	69.6	55.2	56.4	29
39998	Feathers, plumes, and artificial flowers	127.9	140.8	182.4	202.0	254.5	48
39999	Miscellaneous fabricated products, n.e.c.	2 486.2	2 286.9	2 059.2	1 828.3	2 046.1	7
39990	Manufacturing industries, n.e.c., n.s.k.	1 984.4	1 771.8	1 388.2	1 688.4	1 133.9	4

<sup>1</sup>Description of standard error of estimate is given in Introduction under Qualifications of the Data. Percentage standard errors shown are approximate relative standard errors of estimates of level.

<sup>2</sup>For total value of products primary to more than one industry, see table 2.

<sup>3</sup>In addition to value of shipments shown for this class of product, more detailed statistics on value of shipments for some of products included in this class of product are shown in appropriate Current Industrial Report listed in appendixes.

<sup>4</sup>For qualifications of data, see appendixes.

**Table 2. Shipments of Selected Product Classes Primary to More Than One Industry: 1992 to 1996**

[Million dollars. For meaning of abbreviations and symbols and explanation of terms, see introductory text]

Product class code	Description	Value of product shipments (million dollars)				
		1996	1995	1994	1993	1992
20116 20136	]- Pork, processed or cured (not canned or made into sausage) .....	7 148.1	6 634.2	6 353.9	5 935.9	5 535.1
20117 20137	]- Sausage and similar products (not canned) .....	7 962.7	7 629.1	7 271.4	7 109.8	7 300.1
20118 20138	]- Canned meats, (except dog, cat, and baby food) .....	(D)	(D)	(D)	(D)	(D)
20415 20450	]- Flour mixes and refrigerated and frozen doughs and batters .....	5 038.3	5 155.3	4 770.9	4 738.6	4 244.3
20642 20662	]- Chocolate and chocolate-type confectionery products .....	8 013.3	7 133.5	6 896.6	6 796.1	6 662.9
2211F 22617	]- Finished cotton broadwoven fabrics .....	3 163.6	3 231.3	3 330.6	3 514.0	3 120.6
2211G 23923	]- Towels and washcloths .....	1 533.4	1 400.9	1 342.9	1 274.8	1 343.0
2221J 22628	]- Finished manmade fiber and silk broadwoven fabrics .....	4 314.0	4 311.0	4 049.0	3 287.6	3 258.1
2253A 23213	]- Men's and boys' knit shirts .....	5 864.2	5 785.1	5 198.4	4 902.6	5 004.6
2253B 23313	]- Women's, misses', and juniors' knit shirts and blouses .....	1 798.7	1 704.4	1 798.0	1 861.7	1 675.0
2253C 23613	]- Girls', children's, and infants' knit shirts and blouses .....	626.0	639.2	678.9	700.6	699.5
22544 23412 23413	]- Women's and children's knit underwear and nightwear .....	2 128.8	2 329.7	2 356.1	2 233.6	2 376.2
23221 23222 22541	]- Men's and boys' underwear and nightwear .....	(D)	(D)	(D)	(D)	(D)
28691 2911A	]- Liquefied refinery gases, including other aliphatics .....	16 250.9	17 123.1	14 364.4	13 047.2	13 633.0
28744 28750	]- Mixed fertilizers .....	2 187.6	2 445.6	2 609.4	2 333.7	2 135.9
29117 29920	]- Lubricating oils and greases .....	7 080.2	7 052.2	7 064.3	6 704.6	6 361.0
32113 32313	]- Laminated glass .....	1 361.1	1 297.8	1 360.8	1 231.9	1 154.9
32295 32296 32297 32311	]- Machine-made pressed and blown glassware .....	4 595.4	4 432.7	4 179.5	3 919.1	3 741.6
32298 32312	]- Handmade pressed and blown glassware .....	314.7	323.1	301.9	266.4	269.7
33125 33155	]- Steel wire .....	2 219.1	2 296.3	2 403.0	2 275.6	2 112.8
33126 33170	]- Steel pipe and tubes .....	9 350.4	8 981.7	8 177.0	7 147.9	6 572.6
33127 33167	]- Cold rolled steel sheet and strip .....	11 713.6	11 686.9	11 682.1	10 465.0	9 462.4
33128 33168	]- Cold finished steel bars and bar shapes .....	2 236.9	2 192.8	2 133.8	1 975.7	1 833.9
3312A 34627	]- Seamless rolled ring forgings, ferrous .....	284.0	250.5	241.0	221.3	234.5
3312B 34628	]- Open die or smith forgings (hammer or press), ferrous .....	601.8	574.9	551.1	468.8	444.1
33151 34961	]- Noninsulated ferrous wire rope, cable, and strand .....	1 612.3	1 625.7	1 486.3	1 438.9	1 388.0
33156 34966	]- Fencing and fence gates .....	530.6	523.2	503.0	516.9	497.9
33157 34964	]- Ferrous wire cloth and other ferrous woven wire products .....	436.1	429.1	385.9	338.9	314.1
33159 34968	]- Other fabricated ferrous wire products, except springs .....	4 059.4	3 775.5	3 386.7	3 084.5	2 934.0
33312 33412	]- Refined copper and copper-base alloys .....	3 663.7	4 510.7	3 762.1	3 501.5	3 756.4
33347 33417 33553	]- Aluminum ingot .....	7 160.7	7 867.6	6 539.0	5 828.8	6 425.4
33348 33418 33554	]- Aluminum extrusion billet .....	1 763.0	2 088.2	1 750.0	1 431.1	1 288.9
33392 33414	]- Refined zinc and zinc-base alloys .....	(D)	(D)	(D)	(D)	(D)
33395 33415	]- Precious metals and precious metal alloys .....	2 184.8	2 600.6	2 784.6	2 271.0	2 041.7
33551 33571	]- Aluminum and aluminum-base alloy wire and cable, except covered or insulated .....	(D)	(D)	(D)	(D)	(D)
33575 34965	]- Nonferrous wire cloth and other woven wire products .....	(D)	(D)	(D)	(D)	(D)
33576 36996	]- Apparatus wire and cord and flexible cord sets .....	1 433.7	1 316.9	1 345.7	1 031.0	1 089.6

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# Introduction

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## GENERAL

This report contains estimates of the 1996 value of product shipments for approximately 1,750 classes of manufactured products.

The 1996 product class estimates are based on reports from a representative sample of approximately 58,000 manufacturing establishments included in the 1994 Annual Survey of Manufactures (ASM). Comparative data from the 1993, 1994, and 1995 ASM and the 1992 Census of Manufactures also are included.

## SCOPE AND USE OF ANNUAL SURVEY

The 1996 ASM is the 39th survey of this type conducted by the Bureau of the Census to provide the key measures of manufacturing activity for industry groups and important industries for intercensal years. These key measures, as well as other detailed statistics for manufacturing, were collected in the censuses of manufactures; the three most recent censuses covered the years 1992, 1987, and 1982. An annual survey was conducted for each of the years between censuses starting with 1949.

During intercensal periods, these annual surveys provide a continuous series of basic statistics for industries and furnish benchmarks for current business indicators and for measures of industrial production and productivity. The survey also provides significant data in connection with planning for industrial mobilization.

## DESCRIPTION OF THE SURVEY SAMPLE

In 1992, there were approximately 370,000 individual manufacturing establishments. For sample efficiency and cost considerations, the 1992 manufacturing population was partitioned into two components for developing estimates within the ASM; a mail stratum and a nonmail stratum.

**Mail stratum.** The mail stratum of the survey is comprised of larger single-location manufacturing companies and all manufacturing establishments of multiunit companies (companies that operate at more than one physical location). Approximately 230,000 of the 370,000 establishments in the 1992 census were assigned to the mail stratum.

On an annual basis, the mail stratum is supplemented with larger, newly active single-location companies identified from a list provided by the Internal Revenue Service (IRS) and new manufacturing locations of multiunit companies identified from the Census Bureau's Company Organization Survey (COS).

For the 1994 survey, a new sample of approximately 58,000 individual establishments was selected from the mail stratum assembled from the 1992 census. Supplemental samples representing both 1993 and 1994 births (newly active establishments that were not included in the 1992 census) were also selected. Establishments selected for the sample will be mailed an ASM survey questionnaire for each year through 1998.

The 1994-98 ASM sample design is similar to the one used since 1984. Companies in the 1992 Census of Manufactures with manufacturing shipments of at least \$500 million were defined as company certainties. For these large companies, each manufacturing establishment is included in the mail sample. For the 1994-98 sample, there are approximately 650 certainty companies collectively accounting for over 18,000 establishments.

For the remaining portion of the mail component of the survey, the establishment was defined as the sample unit. All establishments with 250 employees or more were defined as employment certainties. In addition, all establishments producing products in SIC 3571 (Electronic Computers) were defined as certainties. Across these three arbitrary certainty classes, there were approximately 25,000 establishments included in the sample with certainty. Collectively, these certainty establishments accounted for approximately 80 percent of the total value of shipments in the 1992 Census of Manufactures.

Smaller establishments in the remaining portion of the mail stratum were sampled with probabilities ranging from .02 to 1.00. The initial probabilities of selection assigned to these establishments were proportionate to a measure-of-size determined for each establishment. The measure-of-size was a function of the establishment's 1992 industry classification, its 1992 product class data, and the historical variability of the year-to-year estimates of the product class estimates. For each product class (1,755) and four-digit industry (459), a desired reliability constraint was specified. Using a technique developed by Dr. James R. Chromy of the Research Triangle Institute, the initial establishment probabilities were optimized such that the expected sample satisfied all industry and product class reliability

constraints while the sample size was minimized. This technique reduces the likelihood of selecting nonrepresentative samples for individual product classes or industries.

This method of assigning probabilities based on product class shipments is motivated by our primary desire to produce reliable estimates of both product class and industry shipments. The high correlation between shipments and employment, value-added, and other general statistics assures that these variables will also be well represented by the sample. The actual sample selection procedure uses an independent chance of selection method (Poisson sampling) which permits us to prevent small establishments from being selected in consecutive samples without introducing a bias into the survey estimates.

**Nonmail component.** The initial nonmail component of the survey was comprised of approximately 140,000 small, single-establishment companies that were tabulated as administrative records in the 1992 Census of Manufactures. The nonmail stratum is also supplemented annually using the list of newly active single-location companies provided by the IRS and payroll cutoffs. Companies with payroll below the payroll cutoff are added to the nonmail stratum.

For this portion of the population, sampling is not used. The data for this group are estimated based on selected information obtained annually from the administrative records of the IRS and Social Security Administration (SSA). This administrative information, which includes payroll, total employment, industry classification, and physical location, is obtained under conditions which safeguard the confidentiality of both tax and census records.

## DESCRIPTION OF THE ESTIMATING PROCEDURE

Most of the ASM estimates derived for the mail stratum are computed using a difference estimator. At the establishment level, there is a strong correlation between the current year data values and the corresponding 1992 (base) data values. Therefore, within the mailed stratum, for each item at each level of aggregation, an estimate of the "difference" between the current year and the base year is computed from sample cases and added to the corresponding base year values. For the 1993-1997 ASM estimates, the 1992 Census of Manufactures values serve as the base year. For the 1998 ASM, the base will be updated to be the 1997 Census of Manufactures.

Due to the positive year-to-year correlation, estimates derived using this methodology are generally more reliable than comparable estimates developed from the current sample data alone. Estimates for the capital expenditures variables are not generated using the difference estimator because the year-to-year correlations are considerably weaker. The standard linear estimator is used for these variables.

For the nonmail stratum, estimates for payroll and employment are directly tabulated from the administrative-record data provided by IRS and SSA. Estimates of data

other than payroll and employment are developed from industry averages. Although the nonmail stratum contains approximately 170,000 individual establishments in 1994, it accounts for less than 2 percent of the estimate for total value of shipments at the total manufacturing level.

Corresponding estimates for the mail and nonmail components are combined to produce the estimates included in this publication.

## ADJUSTMENTS OF HISTORICAL DATA

The goal of the ASM is to produce estimates that represent the employer portion of the manufacturing universe. During census years, ASM estimates generated from the same data set have typically been low in comparison to the census data. In 1987 and 1992, the ASM estimates for shipments at the all manufacturing level were 2.0 and 3.5 percent lower than the census values, respectively. For 1992, the initial ASM estimate for shipments was approximately 3.7 percent low.

Preliminary analyses of the 1992 Census of Manufactures data also suggested that the 1988-91 ASM estimates understated the true levels. An interagency task force, comprised of representatives from the Bureau of Economic Analysis (BEA), the Federal Reserve Board (FRB), and the Census Bureau was formed to investigate this issue and provide recommendations. After examining the evidence, the consensus opinion was that the understatement in the ASM estimates from 1988-91 was sufficient to warrant a revision to the ASM historical time series. The task force recommended that the ten general statistics (GS) variables published in the *Statistics for Industry Groups and Industries* publication (AS-1) be revised for 1988-91.

The major factors contributing to this decision were as follows:

1. The classification of new single-establishment companies continued to be a problem between 1988 and 1992. The number of totally unclassified companies in our master universe file grew significantly through 1991 and then declined sharply in 1992 due to special census processing. A portion of these unclassified companies became classified as manufactures for the first time in 1992, despite having been in operation for up to 4 years. These cases are not represented in the originally published ASM estimates for 1988-91 because of their lack of classification. In addition, it appears that a significant number of new manufacturing companies were initially classified as nonmanufacturing and, therefore, not subjected to our birth supplementation. Beginning with the 1993 ASM, we have introduced procedures to address both these issues.
2. The 1992 ASM was processed within the census survey processing system. While similar to the regular ASM processing system, there were subtle differences in data collection, editing, imputation, and analyst review that cannot be totally eliminated. This suggests that the 1992 ASM estimates derived using census

files are not totally comparable to the 1988-91 ASM estimates. Our analysis suggests the understatement in the 1992 ASM estimates because of processing differences to be between 1 and 1.5 percent. For the 1997 ASM, we are redeveloping components of the processing system.

3. The originally published 1989 ASM estimates appear to be uniformly low in comparison to other comparable time series and our own internal analysis. This suggests that the original 1989 ASM sample was not as representative as expected or that there were undetected operational errors in producing the estimates.
4. As with all sectors of the economy, the manufacturing sector is continually changing. Despite tightly controlled procedures for maintaining the ASM sample, some deterioration in coverage and representation was unavoidable.

The revised estimates for 1988-91 were derived through a series of distinct steps. Essentially, a “smoothing” procedure was used to allocate the difference between the 1992 ASM estimates and the corresponding census values over the 5 year span. However, before applying this procedure, revised ASM estimates for 1989 and 1992 were developed to address problems 2 and 3 described above.

### Generating Revised 1989 Estimates

The 1989 ASM estimates were separated into industries for which the ASM estimates reliably represented the population and industries for which the estimates were suspect. In the suspect industries, the change from 1987 to 1989 was re-estimated using the information reported by establishments in these 2 years. A change ratio estimator was used rather than the difference estimator usually used for ASM estimation. This procedure was not as rigorous as the usual estimator, but offered the advantage of not being as sensitive to the factors that were felt to have caused the original understatement. After the re-estimation, the total value of shipments for all manufacturing industries in 1989 was 0.8 percent higher than originally published.

### Adjustment to 1992 ASM Estimates

As noted above, the initial 1992 ASM estimates were derived within the census processing system rather than the usual ASM system. The initial difference between the 1992 ASM estimate of shipments and the census value was approximately 3.7 percent. At the four-digit SIC level, an estimate of the processing bias was determined and the initial 1992 ASM estimates adjusted accordingly. This adjustment was felt to improve the comparability between the 1992 and the 1988-91 ASM estimates. The adjustment procedure raised the initial 1992 ASM estimate for shipments approximately 1.6 percent, thereby reducing the understatement of the 1992 ASM estimate of shipments to

approximately 2.1 percent at the all manufacturing level. Similar differences existed between the 1992 ASM estimates of the other general statistics variables and the 1992 census values.

### Historical Revision

This 2.1 percent underestimate of the census by the 1992 ASM is defined as the “drift” and is felt to be an accurate measure of the cumulative degradation in the quality of the estimates due to erosion in the representativeness of the sample and processing error. To improve the historical ASM time series, the difference between the adjusted 1992 ASM estimate and the census value was computed for each GS variable at specific industry group levels. This difference was divided by five and the result added to the industry group level estimate for that variable for 1988. Twice the difference was added to the re-estimated industry group level estimate for 1989. Three times the difference was added for 1990, and four times the difference for 1991. Revised estimates for other variables and for other levels of aggregation (geographical) were not calculated. The percentage revision in each variable for each year was calculated for each industry group level and that percentage revision was made to each four-digit SIC within the industry group.

The chart below shows the ASM originally published inventories and shipments estimates at the total manufacturing level and the comparable estimates after the adjustment process for 1988-91. The 1987 and 1992 values represent census statistics, not ASM estimates.

Finally, the complete set of 1995 ASM general statistics and product class estimates have been revised. They were revised to reflect late data corrections made to the 1995 ASM data resulting from the review of the 1996 survey data.

Year	End-of-year inventories (billion dollars)		Value of shipments (billion dollars)	
	Published	Adjusted	Published	Adjusted
1992 .....	374.9	374.9	3,004.7	3,004.7
1991 .....	379.9	387.1	2,826.2	2,878.2
1990 .....	392.5	397.9	2,873.5	2,912.2
1989 .....	380.5	384.5	2,792.7	2,840.4
1988 .....	361.5	363.3	2,682.6	2,695.4
1987 .....	332.6	332.6	2,475.9	2,475.9

### QUALIFICATIONS OF THE DATA

The estimates developed from the sample are apt to differ somewhat from the results of a survey covering all companies in the sample lists but otherwise conducted under essentially the same conditions as the actual sample survey. The estimates of the magnitude of the sampling errors (the difference between the estimates obtained and the results theoretically obtained from a comparable, complete-coverage survey) are provided by the standard errors of estimates.

The particular sample selected for the ASM is one of many similar probability samples that, by chance, might have been selected under the same specifications. Each of the possible samples would yield somewhat different sets of results, and the standard errors are measures of the variation of all the possible sample estimates around the theoretical, comparable, complete-coverage values.

Estimates of the standard errors have been computed from the sample data for selected statistics in this report. They are represented in the form of relative standard errors (the standard errors divided by the estimated values to which they refer).

In conjunction with its associated estimate, the relative standard error may be used to define confidence intervals (ranges that would include the comparable, complete-coverage value for specified percentages of all the possible samples).

The complete coverage value would be included in the range:

1. From one standard error below to one standard error above the derived estimate for about two-thirds of all possible samples.
2. From two standard errors below to two standard errors above the derived estimate for about 19 out of 20 of all possible samples.
3. From three standard errors below to three standard errors above the derived estimate for nearly all samples.

An inference that the comparable, complete-survey result would be within the indicated ranges would be correct in approximately the relative frequencies shown. Those proportions, therefore, may be interpreted as defining the confidence that the estimates from a particular sample would differ from complete-coverage results by as much as one, two, or three standard errors, respectively.

For example, suppose an estimated total is shown at 50,000 with an associated relative standard error of 2 percent, that is, a standard error of 1,000 (2 percent of 50,000). There is approximately 67 percent confidence that the interval 49,000 to 51,000 includes the complete-coverage total, about 95 percent confidence that the interval 48,000 to 52,000 includes the complete-coverage total, and almost certain confidence that the interval 47,000 to 53,000 includes the complete-coverage total.

In addition to the sample errors, the estimates are subject to various response and operational errors: errors of collection, reporting, coding, transcription, imputation for nonresponse, etc. These operational errors also would occur if a complete canvass were to be conducted under the same conditions as the survey. Explicit measures of their effects generally are not available. However, it is believed that most of the important operational errors were detected and corrected during the Census Bureau's review of the data for reasonableness and consistency. The small operational errors usually remain. To some extent, they are

compensating in the aggregated totals shown. When important operational errors were detected too late to correct the estimates, the data were suppressed or were specifically qualified in the tables.

As derived, the estimated standard errors included part of the effect of the operational errors. The total errors, which depend upon the joint effect of the sampling and operational errors, are usually of the order of size indicated by the standard error, or moderately higher. However, for particular estimates, the total error may considerably exceed the standard errors shown. Any figures shown in the tables in this publication having an associated standard error exceeding 15 percent may be combined with higher level totals, creating a broader aggregate, which then may be of acceptable reliability.

## DESCRIPTION OF IMPUTATION PROCEDURE

The need for imputation in the ASM arises from several sources. Complete nonresponse, partial nonresponse, inconsistent reported data, and the Bureau's desire to reduce the reporting burden for small manufacturers are the primary factors contributing to the need for imputation.

For purposes of the ASM, an item is considered to be an impute if the value was not directly reported on the questionnaire, directly derived from other reported items, directly available from supplemental sources, or obtained from the respondent during the analytical review phase.

In imputing records for nonrespondents, two basic approaches are followed. For most larger establishments, operational information is available from the prior-year ASM. Imputation for 1996 data for establishments with 1995 data available involves adjusting the corresponding 1995 data by estimates of the year-to-year relative change. These estimates are developed based on employment and payroll data from the Bureau of Labor Statistics at the industry group (three-digit SIC) level and are then applied to the 1995 prior-year establishment values for employment and payroll. The remaining data for the establishment are developed based on their prior-year relationship to these two control items. For nonrespondents that have no prior-year record available including establishments not included in the mail portion of the survey, administrative-record data for annual payroll and employment are used. For all other items, industry average relationships between these control items and the item to be imputed are used.

At the total manufacturing level, the overall imputation rate is approximately 7 percent of the published value of shipments figure for 1996. However, this rate varies widely by four-digit industry, five-digit product class, and State total. The median imputation rate for a four-digit industry was 10 percent; for a five-digit product class, the rate was somewhat higher; and for a State total, the rate was comparable to the four-digit industry.

## PRODUCT CLASSES

A product class is a grouping of individual products of an industry. It is designated by a five-digit code, the first four digits indicating the industry and the fifth digit, the specific



group of products. The value of shipments for the class of product codes presented here is on a wherever-made basis; for example, it represents total shipments by all manufacturing industries (the industry in which the product class is primary and other industries in which the product class is secondary). In some cases, by definition, a product class is limited to the products of a particular manufacturing process. Wherever another product class accounts for additional production of the same end products, a cross reference is provided; for example, meat packing plant products: 20116, pork, processed, made in meat packing plants (see also code 20136). Table 2 shows total value of products shipped for products that are primary to more than one industry. The total value of shipments of all product classes belonging to an industry also is shown on the same wherever-made basis. It is designated by the four-digit industry code followed by a dash (2013-, if the industry has more than one product class) and by the four-digit industry code followed by another digit if the industry has only one product class (20210). The four-digit product class aggregate is not the same as the total industry value of shipments.

## ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

–	Represents zero.
(A)	Standard errors of 100 percent or more.
(D)	Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
(NA)	Not available.
(NC)	Not comparable.
(S)	Withheld because estimate did not meet publication standards.
(X)	Not applicable.
(Z)	Less than half the unit shown.
n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
pt.	Part.
r	Revised.
SIC	Standard Industrial Classification.

## Appendix A. Qualifications of Selected Product Class Codes

Product code	Explanation
203 except 2034, 2085, 2091, 2092, and 21 .....	Represents value of production
2269 .....	Includes finishing of purchased yarn
2281 .....	Includes yarn spun and finished in same plant
26751 .....	Excludes tabulating card sets which are included in product class 27612
28137 .....	Excludes value of helium produced in government-owned plants
2819 .....	1992 figures include value of inorganic chemicals shipped by establishments classified in manufacturing and nonmanufacturing industries. Value of shipments reported by nonmanufacturing establishments classified in mineral industries was \$79 million for 1992
33121 .....	By definition, this product class is limited to the products produced by establishments classified in the industry having the same code as the first four digits of the product code. Some of the products included in this product class are also made in industry 3313.
3313 .....	See explanation of product class 33121 above
33553 and 33554 .....	Most aluminum billet and alloys produced by rolling and drawing mills represent duplication of tonnage reported by aluminum refiners (industries 3334 and 3341)
33980 .....	Primarily represents establishments engaged in performing metal services on materials owned by others
34710 and 34790 .....	See explanation for product class 33980 above
3731 .....	Values for ship building and repairing are value of work done

## Appendix B.

# Current Industrial Reports by Product Class Codes

Annual Survey of Manufactures product class	Current Industrial Reports
20642, 20643, 20648, 20661, 20662, 20669 .....	MA20D, Confectionery
2211G, 2221K .....	MQ23X, Bed and Bath Furnishings
22534, 22535, 22536, 2253A, 2253B, 2253C, 2253D, 22541, 22544 .....	MQ23A, Apparel
22731, 22732, 22733 .....	MA22Q, Carpets and Rugs
23115, 23116, 23117, 23213, 23216, 23221, 23222, 23251, 23252, 23261, 23262, 23291, 23293, 23313, 23314, 23353, 23371, 23372, 23374, 23392, 23394, 23395, 23397, 23412, 23413, 23421, 23422, 23613, 23614, 23615, 23692, 23693 .....	MQ23A, Apparel
23813, 23814 .....	MA23D, Gloves and Mittens
23840, 23851 .....	MQ23A, Apparel
23922, 23923 .....	MQ23X, Bed and Bath Furnishings
28121, 28123, 28125 .....	MA28A, Inorganic Chemicals
28132, 28133, 28135, 28136, 28137 .....	MA28C, Industrial Gases
28161 .....	MA28A, Inorganic Chemicals
28193 .....	MA28B, Fertilizer Materials
28194, 28195, 28196, 28197, 28198, 28199 .....	MA28A, Inorganic Chemicals
28341, 28342, 28343, 28344, 28345, 28346, 28347, 28348, 28349 .....	MA28G, Pharmaceutical Preparations, Except Biologicals
28422 .....	MA28A, Inorganic Chemicals
28511, 28512, 28513, 28515 .....	MA28F, Paint and Allied Products
28731, 28732, 28741, 28742 .....	MA28B, Fertilizer Materials
30214, 30215 .....	MA31A, Footwear
30880 .....	MQ34E, Plumbing Fixtures
32295, 32296, 32297, 32298, 32311, 32312 .....	MA32E, Consumer, Scientific, Technical, and Industrial Glassware
31420, 31430, 31440, 31490 .....	MA31A, Footwear
31510 .....	MA23D, Gloves and Mittens
32115 .....	MQ32A, Flat Glass
32510, 32530 .....	MQ32D, Clay Construction Products
32550 .....	MA32C, Refractories
32591 .....	MQ32D, Clay Construction Products
32970 .....	MA32C, Refractories
33122, 33123, 33124, 33125, 33126, 33127, 33128, 3312C, 33151, 33152, 33155, 33156, 33159, 33167, 33168, 33170 .....	MA33B, Steel Mill Products
33576, 33577, 33578, 33579, 3357A, 3357B, 3357C, 3357D, 3357E .....	MA33L, Insulated Wire and Cable
34121, 34122 .....	MA34K, Steel Shipping Drums and Pails
34310 .....	MQ34E, Plumbing Fixtures
34918, 34919 .....	MA38B, Selected Instruments and Related Products
3492A, 3492B, 3492C, 3492D, 3492E, 3492F, 3492G 3492H, 3492J, 3492K, 3492M, 3492N .....	MA35N, Fluid Power Products, Including Aerospace

Annual Survey of Manufactures product class	Current Industrial Reports
35191, 35193, 35194, 35196 .....	MA35L, Internal Combustion Engines
35231, 35232, 35233, 35235, 35236, 35239, 3523C, 3523E, 3523F, 35241, 35244, 35246 .....	MA35A, Farm Machinery and Lawn and Garden Equipment
3531A, 3531B, 3531C, 3531E, 3531F, 3531G, 3531N, 3531P .....	MA35D, Construction Machinery
35325, 35327, 35328, 3533A, 3531P .....	MA35F, Mining Machinery, Mineral Processing Equipment
3541D, 35413, 35414, 35415, 35416, 3541A, 3541B, 3541C, 35421, 35422, 35423 .....	MQ35W, Metalworking Machinery
35611, 35613, 35615 .....	MA35P, Pumps and Compressors
35621, 35622, 35623, 35624, 35629.....	MA35Q, Antifriction Bearings
35631 .....	MA35P, Pumps and Compressors
35694, 35695, 35696 .....	MA35N, Fluid Power Products, Including Aerospace
35713, 35714, 35715, 35716, 35717, 35718, 35721, 35722, 35751, 35752, 35771, 35772, 35784, 35789, 35792, 35793, 35795, 35799, 3579A .....	MA35R, Computers and Office and Accounting Machines
35811 .....	MA35U, Vending Machines (Coin Operated)
35851, 35852, 35853, 35854, 35855, 35856, 3585C .....	MA35M, Air-Conditioning and Refrigeration Equipment
35932, 35934, 35935, 35939, 35943, 35944, 35945, 35946, 35949.....	MA35N, Fluid Power Products, Including Aerospace
36124 .....	MQ36C, Fluorescent Lamp Ballasts
36132, 36133, 36134, 36135, 36136, 36139 .....	MA36A, Switchgear, Switchboard Apparatus, Relays, and Industrial Controls
36211, 36212, 36213, 36214, 36217, 36218, 36219 .....	MA36H, Motors and Generators
36251, 36252, 36253, 36254 .....	MA36A, Switchgear, Switchboard Apparatus, Relays, and Industrial Controls
36311, 36313, 36314, 36321, 36322, 36323, 36330 .....	MA36F, Major Household Appliances
36341, 36345, 36349 .....	MA36E, Electric Housewares and Fans
36391, 36392, 36395 .....	MA36F, Major Household Appliances
36431, 36432, 36433, 36434, 36435, 36436, 36441, 36442, 36443.....	MA36K, Wiring Devices and Supplies
36451, 36462, 36463, 36485 .....	MA36L, Electric Lighting Fixtures
36511, 36512, 36514, 36515 .....	MA36M, Radio and Television Receivers, Phonographs, and Related Equipment
36611, 36613, 36614, 36631, 36632, 36691, 36692, 36693,.....	MA36P, Communication Equipment
36713, 36714, 36715, 36720, 36741, 36742, 36743, 36749, 36750, 36760, 36770, 36781, 36782, 36783, 36784, 36785, 36791, 36793, 36795, 36796, 36798, 36799 .....	MA36Q, Semiconductors, Printed Circuit Boards, and Other Electronic Components
36950, 36798.....	MA35R, Computers and Office and Accounting Machines
36991, 36992, 36995 .....	MA36P, Communication Equipment
36996 .....	MA33L, Insulated Wire and Cable
36999 .....	MA36P, Communication Equipment
37151 .....	M37L, Truck Trailers
37215, 37242.....	M37G, Civil Aircraft and Engines
38121, 38122, 38210, 38220, 38230, 38242, 38243, 38244, 38251, 38252, 38253, 38260, 38271, 38274, 38291, 38292, 38294, 38295, 38296.....	MA38B, Selected Instruments and Related Products
38440, 38450.....	MA38R, Electromedical and Irradiation Equipment

M96(AS)-2 **Value of Product Shipments**

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