

Synthetic Rubber Manufacturing: 2002

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2002 Economic Census

Manufacturing

Industry Series



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-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year ¹	Com- panies ²	All estab- lish- ments ³	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
			Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
325212, Synthetic rubber manufacturing . . . 2002..	134	157	9 561	522 068	6 395	12 834	325 130	3 058 793	2 828 597	5 782 311	'284 242
2001..	N	N	9 047	495 178	6 041	13 158	298 691	2 084 162	2 967 545	5 204 008	168 802
2000..	N	N	10 786	598 203	7 238	15 345	356 299	2 444 952	3 477 550	5 835 814	343 783
1999..	N	N	11 212	613 516	7 346	16 087	356 065	2 862 695	2 738 780	5 571 073	295 290
1998..	N	N	10 912	596 454	7 101	15 692	350 542	2 528 824	2 774 641	5 342 742	349 308
1997..	122	144	12 172	628 341	7 819	16 705	366 002	2 773 333	3 394 947	6 153 708	388 526

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	All establishments ²			All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
	E ¹	Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
325212, Synthetic rubber manufacturing												
United States.....	1	157	62	9 561	522 068	6 395	12 834	325 130	3 058 793	2 828 597	5 782 311	'284 242
California	5	29	6	579	25 111	343	685	15 444	76 230	79 416	154 877	'4 882
Georgia	2	6	3	293	18 003	183	394	10 429	162 592	145 099	305 375	'6 822
Illinois	2	8	2	114	4 490	72	142	2 180	14 140	13 732	27 520	'1 919
Indiana	9	7	4	223	9 116	151	282	4 603	64 428	59 735	124 186	'3 139
Kentucky	—	4	3	1 045	62 555	652	1 349	37 264	278 296	243 667	510 824	'14 585
Louisiana	—	6	6	1 361	84 137	952	2 032	56 366	511 901	619 908	1 126 399	'96 125
Texas	1	22	12	2 540	150 965	1 742	3 735	97 423	829 189	951 250	1 772 885	'101 277

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
325212, Synthetic rubber manufacturing	
Companies ¹	number.. 134
All establishments ²	number.. 157
Establishments with 1 to 19 employees	number.. 95
Establishments with 20 to 99 employees	number.. 35
Establishments with 100 employees or more	number.. 27
All employees ³	number.. 9 561
Total compensation	\$1,000.. 705 292
Annual payroll	\$1,000.. 522 068
Total fringe benefits	\$1,000.. 183 224
Production workers, average for year	number.. 6 395
Production workers on March 12	number.. 6 438
Production workers on May 12	number.. 6 316
Production workers on August 12	number.. 6 398
Production workers on November 12	number.. 6 405
Production worker hours	1,000.. 12 834
Production worker wages	\$1,000.. 325 130
Total cost of materials	\$1,000.. 2 828 597
Materials, parts, containers, packaging, etc., used	\$1,000.. 2 427 777
Resales	\$1,000.. 105 734
Purchased fuels	\$1,000.. 158 409
Purchased electricity	\$1,000.. 90 676
Contract work	\$1,000.. 46 001
Quantity of electricity purchased for heat and power	1,000 kWh.. 1 910 413
Quantity of electricity generated less sold for heat and power	1,000 kWh.. D
Total value of shipments	\$1,000.. 5 782 311
Primary products value of shipments	\$1,000.. 4 930 883
Secondary products value of shipments	\$1,000.. 741 154
Total miscellaneous receipts	\$1,000.. 110 274
Value of resales	\$1,000.. 108 994
Contract receipts	\$1,000.. D
Other miscellaneous receipts	\$1,000.. D
Primary products specialization ratio	percent.. 87
Value of primary products shipments made in all industries	\$1,000.. 5 984 702
Value of primary products shipments made in this industry	\$1,000.. 4 930 883
Value of primary products shipments made in other industries	\$1,000.. 1 053 819
Coverage ratio	percent.. 82
Value added	\$1,000.. 3 058 793
Total inventories, beginning of year	\$1,000.. 679 167
Finished goods inventories	\$1,000.. 435 580
Work-in-process inventories	\$1,000.. 88 696
Materials and supplies inventories	\$1,000.. 154 891
Total inventories, end of year	\$1,000.. 811 600
Finished goods inventories	\$1,000.. 565 215
Work-in-process inventories	\$1,000.. 64 140
Materials and supplies inventories	\$1,000.. 182 245
Gross value of depreciable assets (acquisition costs) at beginning of year	\$1,000.. '5 004 152
Total capital expenditures (new and used)	\$1,000.. '284 242
Buildings and other structures (new and used)	\$1,000.. '26 979
Machinery and equipment (new and used)	\$1,000.. '257 263
Automobiles, trucks, etc., for highway use	\$1,000.. '941
Computers and peripheral data processing equipment	\$1,000.. '8 333
All other expenditures for machinery and equipment	\$1,000.. '247 989
Total retirements	\$1,000.. '226 631
Gross value of depreciable assets at end of year	\$1,000.. '5 061 763
Depreciation charges during year	\$1,000.. '252 418
Total rental payments	\$1,000.. 26 585
Buildings and other structures	\$1,000.. 11 699
Machinery and equipment	\$1,000.. 14 886
Total other expenses ⁴	\$1,000.. 439 217
Response coverage ratio ⁵	percent.. 77
Repair and maintenance services of buildings and/or machinery ⁴	\$1,000.. 97 262
Communications services ⁴	\$1,000.. 3 844
Legal services ⁴	\$1,000.. 2 932
Accounting, auditing, and bookkeeping services ⁴	\$1,000.. 1 884
Advertising and promotional services ⁴	\$1,000.. 5 195
Expensed computer hardware and supplies and purchased computer services ⁴	\$1,000.. 3 150
Refuse removal (including hazardous waste) services ⁴	\$1,000.. 8 956
Management consulting and administrative services ⁴	\$1,000.. 11 787
Taxes and license fees ⁴	\$1,000.. 19 135
All other expenses ⁴	\$1,000.. 285 077

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Based on 2002 Annual Survey of Manufactures (ASM) sample data.

⁵A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E ¹	All establishments ²	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
325212, Synthetic rubber manufacturing											
All establishments	1	157	9 561	522 068	6 395	12 834	325 130	3 058 793	2 828 597	5 782 311	'284 242
Establishments with—											
1 to 4 employees	8	56	114	4 570	76	138	2 831	13 430	20 009	33 170	'588
5 to 9 employees	7	18	c	D	D	D	D	D	D	D	D
10 to 19 employees	6	21	294	14 054	195	411	8 624	46 740	63 439	110 540	'1 660
20 to 49 employees	2	17	573	25 320	377	755	12 871	87 986	91 989	173 014	'67 112
50 to 99 employees	—	18	1 215	63 126	780	1 593	34 317	461 526	388 158	843 810	'90 810
100 to 249 employees	1	13	1 765	94 904	1 102	2 271	58 913	613 047	572 535	1 202 513	'35 358
250 to 499 employees	1	12	4 018	238 805	2 646	5 672	150 386	1 217 850	1 217 227	2 311 986	'60 379
500 to 999 employees	—	2	g	D	D	D	D	D	D	D	D
1,000 to 2,499 employees	—	—	—	—	—	—	—	—	—	—	—
2,500 employees or more	—	—	—	—	—	—	—	—	—	—	—
Administrative records ⁴	9	25	61	2 733	42	78	1 724	8 711	12 834	20 990	'348

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments ¹	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				
325212	Synthetic rubber manufacturing	157	9 561	522 068	6 395	12 834	325 130	3 058 793	2 828 597	5 782 311	'284 242
3252120	Synthetic rubber (vulcanizable elastomers)	157	9 561	522 068	6 395	12 834	325 130	3 058 793	2 828 597	5 782 311	'284 242

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. Products Statistics: 2002 and 1997

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
325212	Synthetic rubber manufacturing	2002 N 1997 N	X X	X X	5 984 702 6 249 385
3252120	Synthetic rubber (vulcanizable elastomers)	2002 N 1997 N	X X	X X	5 984 702 6 249 385
32521201	Styrene-butadiene rubber (SBR), excluding latex	2002 N 1997 N	X X	X X	1 092 691 1 090 752
3252120111	Styrene-butadiene rubber (SBR), excluding latex mil lb.	2002 13 1997 7	X X	^{q2} 679.4 2 546.0	1 092 691 1 090 752
32521202	Styrene-butadiene rubber (SBR), latex	2002 N 1997 N	X X	X X	616 568 477 767
3252120211	Styrene-butadiene rubber (SBR), latex mil lb.	2002 9 1997 8	X X	^{q1} 432.7 ^{q1} 267.2	616 568 477 767
32521203	Butyl, polychloroprene, and stereo polyisoprene elastomers, and nitrile rubber, including latex	2002 N 1997 N	X X	X X	1 031 966 1 116 279
3252120311	Nitrile rubber, including latex mil lb.	2002 11 1997 10	X X	S ^q 320.3	275 625 322 523
3252120321	Butyl, polychloroprene, and stereo polyisoprene elastomers, including latex mil lb.	2002 8 1997 8	X X	S 805.9	756 341 793 756
32521204	Stereo polybutadiene elastomers, including latex	2002 N 1997 N	X X	X X	582 768 469 844
3252120411	Stereo polybutadiene elastomers, including latex mil lb.	2002 3 1997 4	X X	1 177.6 1 045.0	582 768 469 844
32521205	Ethylene-propylene elastomers, including latex	2002 N 1997 N	X X	X X	373 154 639 560
3252120511	Ethylene-propylene elastomers, including latex mil lb.	2002 11 1997 11	X X	^p 538.0 806.1	373 154 639 560
32521206	Silicone elastomers	2002 N 1997 N	X X	X X	565 042 700 350
3252120611	Silicone elastomers mil lb.	2002 25 1997 16	X X	S S	565 042 700 350
32521207	Other elastomers, excluding thermoplastic elastomers, including latex	2002 N 1997 N	X X	X X	667 766 492 811
3252120711	Other elastomers, excluding thermoplastic elastomers, including latex mil lb.	2002 19 1997 14	X X	S ^q 199.8	667 766 492 811
32521208	Thermoplastics elastomers	2002 N 1997 N	X X	X X	859 265 962 329
3252120811	Thermoplastics elastomers mil lb.	2002 16 1997 12	X X	^q 679.1 ^q 732.9	859 265 962 329
3252120Y	Synthetic rubber (vulcanizable elastomers), nsk, total	2002 N 1997 N	X X	X X	195 482 299 693
3252120YWW	Synthetic rubber (vulcanizable elastomers), nsk, for nonadministrative-record establishments	2002 N 1997 N	X X	X X	177 279 186 315
3252120YWY	Synthetic rubber (vulcanizable elastomers), nsk, for administrative-record establishments	2002 N 1997 N	X X	X X	18 203 113 378

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. **Product Class Shipments for Selected States: 2002 and 1997**

[Not applicable for this report.]

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
325212	Synthetic rubber manufacturing		
0090001	Total materials	X	2 427 777
	..... 1997..	X	2 975 475
32519207	Styrene (100 percent basis)	890.1	238 273
	..... mil lb. .2002..	788.3	209 507
	..... 1997..	D	D
32519205	Phenol (100 percent basis)	D	D
	..... mil lb. .2002..	D	D
	..... 1997..	D	D
32519229	Other cyclic crudes and intermediates (including melamine, phthalic anhydride, and benzene)	X	D
	..... 2002..	X	D
	..... 1997..	X	D
32519217	Synthetic organic dyes, pigments, lakes, and toners (100 percent basis)	9.5	1 264
	..... mil lb. .2002..	D	D
	..... 1997..	D	D
32510043	Acrylates and methacrylates, monomers (100 percent basis)	144.5	56 160
	..... mil lb. .2002..	115.9	57 029
	..... 1997..		
32510037	Alcohols, excluding ethyl (100 percent basis)	7.1	2 869
	..... mil lb. .2002..	98.4	1 979
	..... 1997..	.1	22
32510041	Formaldehyde (100 percent HCHO)	D	D
	..... mil lb. .2002..	D	D
	..... 1997..	D	D
32510055	Rubber processing chemicals (accelerators, antioxidants, blowing agents, inhibitors, peptizers, etc.)	X	105 833
	..... 2002..	X	121 091
	..... 1997..		
32510047	Vinyl acetate, monomer (100 percent basis)	D	D
	..... mil lb. .2002..	D	D
	..... 1997..	D	D
32510049	Vinyl chloride, monomer (100 percent basis)	D	D
	..... mil lb. .2002..	D	D
	..... 1997..	D	D
325100A3	Other synthetic organic chemicals (including acrylonitrile and cellulose acetate)	X	49 653
	..... 2002..	X	198 035
	..... 1997..		
32411031	Ethane used as a raw material or feedstock	D	D
	..... mil lb. .2002..	D	D
	..... 1997..	D	D
32411033	Ethylene used as a raw material or feedstock	321.2	66 550
	..... mil lb. .2002..	P364.0	83 427
	..... 1997..	D	D
32411035	Propane used as a raw material or feedstock	D	D
	..... mil lb. .2002..	D	D
	..... 1997..	D	D
32411037	Propylene used as a raw material or feedstock	164.9	30 476
	..... mil lb. .2002..	S	51 878
	..... 1997..		
32411043	Butadiene used as a raw material or feedstock	3 083.9	650 997
	..... mil lb. .2002..	P3 128.4	643 084
	..... 1997..		
32411045	Other refined petroleum products used as a raw material or feedstock (butane, isobutane, butylene, isobutylene, etc.)	D	D
	..... mil lb. .2002..	670.6	237 056
	..... 1997..		
00190002	Other hydrocarbons used as raw materials or feedstocks (including crude oil, natural gas and still gas)	X	22 912
	..... 2002..	X	D
	..... 1997..		
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc.	X	91 925
	..... 2002..	X	124 349
	..... 1997..		
325000B7	Inorganic chemicals	X	54 024
	..... 2002..	X	71 255
	..... 1997..		
32518200	Carbon black	147.0	54 241
	..... mil lb. .2002..	S	48 868
	..... 1997..		
32500061	All other miscellaneous chemicals (including additives, driers, modifiers, biocides, and dispersants)	X	208 792
	..... 2002..	X	N
	..... 1997..		
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies)	X	82 424
	..... 2002..	X	41 577
	..... 1997..		
00970099	All other materials and components, parts, containers, and supplies	X	398 571
	..... 2002..	X	666 741
	..... 1997..		
00971000	Materials, ingredients, containers, and supplies, nsk	X	60 417
	..... 2002..	X	220 880
	..... 1997..		

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.