

Biological Product (Except Diagnostic) Manufacturing: 2002

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2002 Economic Census

Manufacturing

Industry Series



U S C E N S U S B U R E A U

Helping You Make Informed Decisions

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



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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)				
325414, Biological product (except diagnostic) manufacturing											
2002..	229	296	22 858	1 225 825	11 254	21 792	478 454	5 610 013	2 550 908	7 790 703	'547 533
2001..	N	N	22 974	1 130 587	11 824	23 708	431 470	4 843 702	2 657 588	7 315 939	515 827
2000..	N	N	22 790	1 114 119	11 761	26 460	416 375	4 257 269	2 726 540	6 827 550	570 679
1999..	N	N	21 185	957 990	11 428	22 843	414 707	3 711 738	2 272 562	5 798 552	371 776
1998..	N	N	24 134	1 096 569	12 182	24 613	415 905	3 898 335	2 257 571	6 056 824	390 015
1997..	267	363	22 969	1 008 409	11 921	24 529	383 407	3 691 700	2 111 973	5 627 217	426 872

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)				
325414, Biological product (except diagnostic) manufacturing												
United States	1	296	130	22 858	1 225 825	11 254	21 792	478 454	5 610 013	2 550 908	7 790 703	'547 533
California	3	45	17	4 281	266 459	2 198	4 099	112 684	646 347	490 593	1 109 913	'93 276
Florida	3	7	3	113	3 622	100	167	2 582	15 433	5 103	20 459	'440
Georgia	—	8	2	434	20 256	218	391	6 243	92 905	33 641	124 919	'11 057
Iowa	—	11	6	1 713	61 191	900	2 188	28 182	317 274	148 286	444 007	'21 652
Kansas	5	7	3	257	12 605	120	242	3 801	41 512	16 995	54 852	'2 661
Maine	5	7	3	120	4 722	56	119	1 561	19 189	11 478	27 580	'5 604
Maryland	—	13	5	1 029	51 274	588	1 080	23 496	755 952	65 054	835 293	'14 324
Massachusetts	—	15	11	1 334	78 337	652	1 282	29 652	742 666	75 410	803 589	'36 475
Minnesota	4	9	2	172	8 199	89	160	3 097	16 277	9 596	30 737	'1 959
Missouri	1	10	4	529	30 823	231	445	8 204	63 569	21 071	81 497	'7 638
Nebraska	—	7	5	448	20 530	306	549	10 342	43 414	29 062	80 728	'12 928
New York	—	6	5	434	19 553	226	338	7 837	83 704	56 280	132 618	'3 803
North Carolina	—	12	8	2 983	142 948	1 434	2 789	57 148	943 936	513 801	1 356 013	'128 910
Texas	3	24	5	512	22 358	314	556	10 646	67 648	20 286	88 633	'5 232
Wisconsin	3	10	4	932	50 426	326	611	14 276	140 056	55 443	198 031	'9 840

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
325414, Biological product (except diagnostic) manufacturing	
Companies ¹	number.. 229
All establishments ²	number.. 296
Establishments with 1 to 19 employees	number.. 166
Establishments with 20 to 99 employees	number.. 84
Establishments with 100 employees or more	number.. 46
All employees ³	number.. 22 858
Total compensation	\$1,000.. 1 545 345
Annual payroll	\$1,000.. 1 225 825
Total fringe benefits	\$1,000.. 319 520
Production workers, average for year	number.. 11 254
Production workers on March 12	number.. 11 440
Production workers on May 12	number.. 11 271
Production workers on August 12	number.. 11 005
Production workers on November 12	number.. 11 271
Production worker hours	1,000.. 21 792
Production worker wages	\$1,000.. 478 454
Total cost of materials	\$1,000.. 2 550 908
Materials, parts, containers, packaging, etc., used	\$1,000.. 1 835 060
Resales	\$1,000.. 533 398
Purchased fuels	\$1,000.. 24 271
Purchased electricity	\$1,000.. 51 588
Contract work	\$1,000.. 106 591
Quantity of electricity purchased for heat and power	1,000 kWh.. 1 014 747
Quantity of electricity generated less sold for heat and power	1,000 kWh.. D
Total value of shipments	\$1,000.. 7 790 703
Primary products value of shipments	\$1,000.. 6 681 017
Secondary products value of shipments	\$1,000.. 188 730
Total miscellaneous receipts	\$1,000.. 920 956
Value of resales	\$1,000.. 772 560
Contract receipts	\$1,000.. 104 048
Other miscellaneous receipts	\$1,000.. 44 348
Primary products specialization ratio	percent.. 97
Value of primary products shipments made in all industries	\$1,000.. 8 540 155
Value of primary products shipments made in this industry	\$1,000.. 6 681 017
Value of primary products shipments made in other industries	\$1,000.. 1 859 138
Coverage ratio	percent.. 78
Value added	\$1,000.. 5 610 013
Total inventories, beginning of year	\$1,000.. 2 069 574
Finished goods inventories	\$1,000.. 625 541
Work-in-process inventories	\$1,000.. 1 087 131
Materials and supplies inventories	\$1,000.. 356 902
Total inventories, end of year	\$1,000.. 2 491 142
Finished goods inventories	\$1,000.. 858 415
Work-in-process inventories	\$1,000.. 1 224 475
Materials and supplies inventories	\$1,000.. 408 252
Gross value of depreciable assets (acquisition costs) at beginning of year	\$1,000.. '4 724 106
Total capital expenditures (new and used)	\$1,000.. '547 533
Buildings and other structures (new and used)	\$1,000.. '233 782
Machinery and equipment (new and used)	\$1,000.. '313 751
Automobiles, trucks, etc., for highway use	\$1,000.. '4 129
Computers and peripheral data processing equipment	\$1,000.. '27 214
All other expenditures for machinery and equipment	\$1,000.. '282 408
Total retirements	\$1,000.. '487 781
Gross value of depreciable assets at end of year	\$1,000.. '4 783 858
Depreciation charges during year	\$1,000.. '334 057
Total rental payments	\$1,000.. 66 146
Buildings and other structures	\$1,000.. 43 720
Machinery and equipment	\$1,000.. 22 426
Total other expenses ⁴	\$1,000.. 528 327
Response coverage ratio ⁵	percent.. 76
Repair and maintenance services of buildings and/or machinery ⁴	\$1,000.. 53 613
Communications services ⁴	\$1,000.. 13 473
Legal services ⁴	\$1,000.. 6 950
Accounting, auditing, and bookkeeping services ⁴	\$1,000.. 1 064
Advertising and promotional services ⁴	\$1,000.. 51 673
Expensed computer hardware and supplies and purchased computer services ⁴	\$1,000.. 12 181
Refuse removal (including hazardous waste) services ⁴	\$1,000.. 10 930
Management consulting and administrative services ⁴	\$1,000.. 101 070
Taxes and license fees ⁴	\$1,000.. 15 848
All other expenses ⁴	\$1,000.. 261 526

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 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)				
325414, Biological product (except diagnostic) manufacturing											
All establishments	1	296	22 858	1 225 825	11 254	21 792	478 454	5 610 013	2 550 908	7 790 703	'547 533
Establishments with—											
1 to 4 employees	9	67	132	6 172	72	125	1 990	19 453	12 037	32 011	'1 730
5 to 9 employees	8	42	282	14 855	132	260	4 219	48 194	32 726	83 296	'4 664
10 to 19 employees	6	57	806	36 199	535	866	17 987	122 453	62 795	187 049	'8 818
20 to 49 employees	3	58	1 785	76 428	1 170	2 249	40 224	267 002	115 883	378 453	'21 806
50 to 99 employees	—	26	1 891	95 592	1 004	1 761	35 235	232 696	139 935	366 475	'32 472
100 to 249 employees	1	29	5 182	267 978	2 449	4 726	96 837	2 008 575	416 972	2 358 088	'95 976
250 to 499 employees	3	6	2 265	110 058	1 047	2 259	31 948	296 255	115 403	361 592	'64 739
500 to 999 employees	2	6	3 987	205 095	2 000	4 072	92 482	1 009 141	537 669	1 472 683	'134 469
1,000 to 2,499 employees	—	5	6 528	413 448	2 845	5 474	157 532	1 606 244	1 117 488	2 551 056	'182 859
2,500 employees or more	—	—	—	—	—	—	—	—	—	—	—
Administrative records ⁴	9	132	908	46 785	428	842	13 108	159 410	102 031	261 443	'14 502

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)				
325414	Biological product (except diagnostic) manufacturing	296	22 858	1 225 825	11 254	21 792	478 454	5 610 013	2 550 908	7 790 703	'547 533
3254141	Blood and blood derivatives, for human use	49	4 666	250 821	2 557	4 770	100 417	622 628	838 358	1 375 325	'101 265
3254144	Vaccines, toxoids, and antigens, excluding allergens, for human use	20	3 899	241 738	1 521	3 024	84 600	1 387 126	578 297	1 921 548	'161 066
3254147	Other biologics, excluding diagnostic, for human use	16	4 592	260 612	2 674	4 902	136 835	2 082 859	450 260	2 404 858	'103 959
325414A	Biological products, excluding diagnostic, for veterinary, industrial, and all other miscellaneous uses ..	68	8 314	400 251	3 875	7 919	136 678	1 312 075	564 127	1 762 423	'161 553

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)
325414	Biological product (except diagnostic) manufacturing	2002.. N 1997.. N	X X	X X	8 540 155 5 398 081
3254141	Blood and blood derivatives, for human use	2002.. N 1997.. N	X X	X X	1 388 057 1 060 150
32541411	Biological products, blood and blood derivatives, for human use	2002.. N 1997.. N	X X	X X	1 387 735 1 060 150
3254141111	Biological products, diagnostic, blood and blood derivatives, human blood plasma, for human use	2002.. 9 1997.. 6	X X	X X	953 692 739 866
3254141121	Biological products, excluding diagnostic, blood and blood derivatives, other blood and blood derivatives or fractions, excluding those used for passive immunization	2002.. 14 1997.. 11	X X	X X	434 043 320 284
3254141Y	Blood and blood derivatives, for human use, nsk	2002.. N 1997.. N	X X	X X	322 -
3254141YWV	Blood and blood derivatives, for human use, nsk	2002.. N 1997.. N	X X	X X	322 -
3254144	Vaccines, toxoids, and antigens, excluding allergens, for human use	2002.. N 1997.. N	X X	X X	3 015 287 1 265 460
32541441	Biological products, excluding diagnostic, vaccines, toxoids, excluding allergens, for human use	2002.. N 1997.. N	X X	X X	3 015 287 1 265 460
3254144100	Biological products, excluding diagnostic, vaccines, toxoids, excluding allergens, for human use	2002.. 22 1997.. 29	X X	X X	3 015 287 1 265 460
3254147	Other biologics, excluding diagnostic, for human use	2002.. N 1997.. N	X X	X X	2 165 164 1 511 455
32541471	Biological products, excluding diagnostic, for human use	2002.. N 1997.. N	X X	X X	2 165 164 1 504 920
3254147111	Biological products, excluding diagnostic, other biologics, antitoxins, antivenoms, immune globulins, therapeutic immune serums, etc., for therapeutic use and passive immunization	2002.. 12 1997.. 27	X X	X X	2 052 355 1 437 137
3254147121	Biological products, excluding diagnostic, other biologics, allergenic extracts and other biologics for human use, including poison ivy and oak extracts, excluding diagnostic allergens	2002.. 8 1997.. 5	X X	X X	112 809 67 783
3254147Y	Other biologics, excluding diagnostic, for human use, nsk	2002.. N 1997.. N	X X	X X	- 6 535
3254147YWV	Other biologics, excluding diagnostic, for human use, nsk	2002.. N 1997.. N	X X	X X	- 6 535
325414A	Biological products, excluding diagnostic, for veterinary, industrial, and all other miscellaneous uses	2002.. N 1997.. N	X X	X X	1 731 435 1 304 739
325414A1	Biological veterinary vaccines, bacterins, toxoids, other antigens, and other biological products	2002.. N 1997.. N	X X	X X	917 465 662 649
325414A111	Biological products, excluding diagnostic, for veterinary, industrial, and all other miscellaneous uses, veterinary vaccines, including vaccines against foot-and-mouth disease	2002.. 16 1997.. 19	X X	X X	585 560 505 737
325414A121	Biological products, excluding diagnostic, for veterinary, industrial, and all other miscellaneous uses, bacterins, toxoids, and other antigens, excluding allergens, for active immunization	2002.. 14 1997.. 36	X X	X X	65 035 50 689
325414A131	Biological products, excluding diagnostic, for veterinary, industrial, and all other uses, other biological products, including veterinary blood derivatives, antitoxins, immune serums, and allergens	2002.. 11 1997.. 13	X X	X X	266 870 106 223
325414A2	Biological products, excluding diagnostic, for veterinary, industrial, and all other miscellaneous uses, biological products for industrial and other uses, excluding culture media	2002.. N 1997.. N	X X	X X	679 168 562 672
325414A241	Biological products, excluding diagnostic, for veterinary, industrial, and all other miscellaneous uses, biological products for industrial and other uses, excluding culture media	2002.. 32 1997.. 33	X X	X X	679 168 562 672
325414A3	Biological products for industrial and all other miscellaneous uses, non-diagnostic culture media	2002.. N 1997.. N	X X	X X	95 058 N
325414A311	Biological products for industrial and all other miscellaneous uses, non-diagnostic culture media	2002.. 9 1997.. N	X X	X X	95 058 N
325414AY	Biological products, excluding diagnostic, for veterinary, industrial, and all other miscellaneous uses, nsk	2002.. N 1997.. N	X X	X X	39 744 79 418
325414AYWV	Biological products, excluding diagnostic, for veterinary, industrial, and all other miscellaneous uses, nsk	2002.. N 1997.. N	X X	X X	39 744 79 418
325414W	Biological product (except diagnostic) manufacturing, nsk, total	2002.. N 1997.. N	X X	X X	240 212 256 277
325414WY	Biological product (except diagnostic) manufacturing, nsk, total	2002.. N 1997.. N	X X	X X	240 212 256 277
325414WYWV	Biological product (except diagnostic) manufacturing, nsk, for nonadministrative-record establishments	2002.. N 1997.. N	X X	X X	58 810 227 993

See footnotes at end of table.

Table 6a. Products Statistics: 2002 and 1997—Con.

[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)
325414	Biological product (except diagnostic) manufacturing—Con.				
325414W	Biological product (except diagnostic) manufacturing, nsk, total—Con.				
325414WY	Biological product (except diagnostic) manufacturing, nsk, total—Con.				
325414WYWY	Biological product (except diagnostic) manufacturing, nsk, for administrative-record establishments				
		N	X	X	181 402
		N	X	X	28 284

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

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic 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]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3254141	Blood and blood derivatives, for human use	
	United States	2002.. 1 388 057 1997.. 1 060 150
3254144	Vaccines, toxoids, and antigens, excluding allergens, for human use	
	United States	2002.. 3 015 287 1997.. 1 265 460
	California	2002.. 17 255 1997.. 14 447
3254147	Other biologics, excluding diagnostic, for human use	
	United States	2002.. 2 165 164 1997.. 1 511 455
	North Carolina	2002.. 382 150 1997.. N
325414A	Biological products, excluding diagnostic, for veterinary, industrial, and all other miscellaneous uses	
	United States	2002.. 1 731 435 1997.. 1 304 739
	California	2002.. 47 133 1997.. 279 549
	Iowa	2002.. 264 851 1997.. N
	Kansas	2002.. 42 468 1997.. 50 009
	Maryland	2002.. 77 161 1997.. N
	Nebraska	2002.. 261 742 1997.. N
	New York	2002.. 66 892 1997.. N
	Wisconsin	2002.. 182 226 1997.. 78 004

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 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)
325414	Biological product (except diagnostic) manufacturing		
00900001	Total materials	X	1 835 060
	.....2002..	X	1 584 042
	.....1997..	X	29 088
32541113	Antibiotics (bulk), for human and veterinary use	X	D
	.....2002..	X	D
	.....1997..	X	-
32541115	Antibiotics (bulk), for animal feeds	X	D
	.....2002..	X	D
	.....1997..	X	-
32541101	Vitamins, natural and synthetic, for human and veterinary use (bulk)	X	D
	.....2002..	X	10 948
	.....1997..	X	D
32541103	Vitamins, natural and synthetic, for animal feeds (bulk)	X	D
	.....2002..	X	D
	.....1997..	X	D
11100033	Agricultural products, crude (including flowers, grains, seeds, herbs, etc.)	X	14 710
	.....2002..	X	13 284
	.....1997..	X	
31100001	Processed food and kindred products (including lactose, meat packing plant products, yeast, etc.)	X	6 006
	.....2002..	X	32 059
	.....1997..	X	875 874
32541000	Blood derivatives and extenders	X	497 800
	.....2002..	X	82 476
	.....1997..	X	28 657
32599807	Gelatin (pharmaceutical grade) and gelatin capsules	X	D
	.....2002..	X	D
	.....1997..	X	D
32510036	Alcohols, excluding ethyl (100 percent basis)	X	2 381
	.....2002..	X	N
	.....1997..	X	D
32519201	Cyclic crudes and intermediates (including organic colors)	X	D
	.....2002..	X	D
	.....1997..	X	D
32510031	Other synthetic organic chemicals (including halogenated hydrocarbons)	X	41 096
	.....2002..	X	14 947
	.....1997..	X	
32610015	Fabricated plastics products, including plastics closures, film, and packaging items (excluding containers)	X	19 318
	.....2002..	X	19 247
	.....1997..	X	3 026
33211500	Metal closures and crowns for containers	X	2 858
	.....2002..	X	
	.....1997..	X	
32310003	Labels, coupons, instructions, and other printed material	X	15 122
	.....2002..	X	8 938
	.....1997..	X	26 031
32610029	Plastics containers	X	10 991
	.....2002..	X	21 930
	.....1997..	X	19 527
32721301	Glass containers	X	
	.....2002..	X	D
	.....1997..	X	D
33240000	Metal containers	X	11 981
	.....2002..	X	12 467
	.....1997..	X	420 256
32221001	Paperboard containers, boxes, and corrugated paperboard	X	437 395
	.....2002..	X	252 572
	.....1997..	X	455 571
00970099	All other materials and components, parts, containers, and supplies	X	
	.....2002..	X	
	.....1997..	X	
00971000	Materials, ingredients, containers, and supplies, nsk	X	
	.....2002..	X	
	.....1997..	X	

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.