

# Iron and Steel Pipe and Tube Manufacturing From Purchased Steel: 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 <sup>1</sup>	Com- panies <sup>2</sup>	All estab- lish- ments <sup>3</sup>	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 <sup>4</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
331210, Iron and steel pipe and tube manufacturing from purchased steel . . . . . 2002..	136	183	22 653	924 071	17 437	37 336	642 351	2 509 943	4 085 214	6 608 720	203 661
2001..	N	N	23 800	920 934	18 813	37 748	631 973	2 394 946	4 034 964	6 537 808	182 301
2000..	N	N	27 174	1 027 093	21 498	44 498	715 138	3 090 901	4 759 746	7 783 423	232 407
1999..	N	N	26 246	967 367	20 845	42 516	661 166	2 827 238	4 558 023	7 349 368	211 934
1998..	N	N	27 313	994 813	21 379	45 311	682 535	2 615 360	4 894 145	7 537 341	229 013
1997..	166	230	26 864	956 735	21 004	44 364	658 737	2 784 745	4 698 884	7 450 132	216 395

<sup>1</sup>Statistics 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).

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

<sup>3</sup>Includes establishments with payroll at any time during the year.

<sup>4</sup>Number 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	E <sup>1</sup>	All establishments <sup>2</sup>		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)
		Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
331210, Iron and steel pipe and tube manufacturing from purchased steel												
United States .....	1	183	148	22 653	924 071	17 437	37 336	642 351	2 509 943	4 085 214	6 608 720	203 661
Arkansas .....	—	6	5	1 505	45 315	1 274	2 921	36 889	188 427	203 792	387 012	13 767
California .....	—	13	9	1 294	64 306	938	1 964	39 942	211 859	461 850	663 593	31 104
Illinois .....	—	16	13	2 168	89 203	1 605	3 307	63 191	274 524	469 524	739 734	15 672
Indiana .....	—	10	7	1 080	36 287	813	2 639	23 676	96 108	154 785	248 996	6 146
Kentucky .....	—	4	4	286	11 205	233	448	8 674	33 933	39 104	73 032	1 537
Louisiana .....	—	4	4	404	16 924	303	614	12 766	39 300	106 116	145 455	733
Michigan .....	—	7	6	972	37 734	668	1 361	21 171	79 281	90 535	168 012	3 192
Missouri .....	1	5	4	247	8 185	185	384	5 197	25 056	42 419	66 120	1 252
New Jersey .....	—	5	5	572	25 317	425	599	16 799	61 471	36 450	102 116	1 708
Ohio .....	—	27	22	3 940	161 746	3 217	6 855	123 004	422 999	575 074	1 006 549	69 677
Oklahoma .....	—	8	8	1 001	38 542	774	1 629	25 242	59 429	161 786	222 545	5 689
Pennsylvania .....	3	15	13	3 062	147 748	2 403	4 823	105 523	475 724	811 634	1 305 366	10 200
Tennessee .....	—	8	8	1 092	36 878	873	1 775	26 375	96 933	134 575	230 126	4 917
Texas .....	1	10	9	1 322	49 928	1 040	2 326	35 308	81 657	180 878	267 416	16 312
Wisconsin .....	1	9	8	1 195	50 226	845	1 672	33 418	121 928	146 164	266 324	5 486

<sup>1</sup>Some 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.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number 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
<b>331210, Iron and steel pipe and tube manufacturing from purchased steel</b>	
Companies <sup>1</sup> .....	number.. 136
All establishments <sup>2</sup> .....	number.. 183
Establishments with 1 to 19 employees .....	number.. 35
Establishments with 20 to 99 employees .....	number.. 69
Establishments with 100 employees or more .....	number.. 79
All employees <sup>3</sup> .....	number.. 22 653
Total compensation .....	\$1,000.. 1 192 595
Annual payroll .....	\$1,000.. 924 071
Total fringe benefits .....	\$1,000.. 268 524
Production workers, average for year .....	number.. 17 437
Production workers on March 12 .....	number.. 17 470
Production workers on May 12 .....	number.. 17 559
Production workers on August 12 .....	number.. 17 401
Production workers on November 12 .....	number.. 17 299
Production worker hours .....	1,000.. 37 336
Production worker wages .....	\$1,000.. 642 351
Total cost of materials .....	\$1,000.. 4 085 214
Materials, parts, containers, packaging, etc., used .....	\$1,000.. 3 698 382
Resales .....	\$1,000.. 68 169
Purchased fuels .....	\$1,000.. 43 598
Purchased electricity .....	\$1,000.. 78 624
Contract work .....	\$1,000.. 196 441
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 1 344 430
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 312
Total value of shipments .....	\$1,000.. 6 608 720
Primary products value of shipments .....	\$1,000.. 6 055 082
Secondary products value of shipments .....	\$1,000.. 426 553
Total miscellaneous receipts .....	\$1,000.. 127 085
Value of resales .....	\$1,000.. 75 891
Contract receipts .....	\$1,000.. 12 668
Other miscellaneous receipts .....	\$1,000.. 38 526
Primary products specialization ratio .....	percent.. 93
Value of primary products shipments made in all industries .....	\$1,000.. 7 112 294
Value of primary products shipments made in this industry .....	\$1,000.. 6 055 082
Value of primary products shipments made in other industries .....	\$1,000.. 1 057 212
Coverage ratio .....	percent.. 85
Value added .....	\$1,000.. 2 509 943
Total inventories, beginning of year .....	\$1,000.. 1 022 651
Finished goods inventories .....	\$1,000.. 384 893
Work-in-process inventories .....	\$1,000.. 192 495
Materials and supplies inventories .....	\$1,000.. 445 263
Total inventories, end of year .....	\$1,000.. 1 057 983
Finished goods inventories .....	\$1,000.. 404 292
Work-in-process inventories .....	\$1,000.. 159 533
Materials and supplies inventories .....	\$1,000.. 494 158
Gross value of depreciable assets (acquisition costs) at beginning of year .....	\$1,000.. '2 364 093
Total capital expenditures (new and used) .....	\$1,000.. '203 661
Buildings and other structures (new and used) .....	\$1,000.. '40 601
Machinery and equipment (new and used) .....	\$1,000.. '163 060
Automobiles, trucks, etc., for highway use .....	\$1,000.. '1 576
Computers and peripheral data processing equipment .....	\$1,000.. '5 466
All other expenditures for machinery and equipment .....	\$1,000.. '156 018
Total retirements .....	\$1,000.. '80 102
Gross value of depreciable assets at end of year .....	\$1,000.. '2 487 652
Depreciation charges during year .....	\$1,000.. '203 947
Total rental payments .....	\$1,000.. 50 771
Buildings and other structures .....	\$1,000.. 23 384
Machinery and equipment .....	\$1,000.. 27 387
Total other expenses <sup>4</sup> .....	\$1,000.. 462 743
Response coverage ratio <sup>5</sup> .....	percent.. 84
Repair and maintenance services of buildings and/or machinery <sup>4</sup> .....	\$1,000.. 106 795
Communications services <sup>4</sup> .....	\$1,000.. 7 404
Legal services <sup>4</sup> .....	\$1,000.. 6 348
Accounting, auditing, and bookkeeping services <sup>4</sup> .....	\$1,000.. 4 728
Advertising and promotional services <sup>4</sup> .....	\$1,000.. 2 845
Expensed computer hardware and supplies and purchased computer services <sup>4</sup> .....	\$1,000.. 5 023
Refuse removal (including hazardous waste) services <sup>4</sup> .....	\$1,000.. 8 449
Management consulting and administrative services <sup>4</sup> .....	\$1,000.. 13 099
Taxes and license fees <sup>4</sup> .....	\$1,000.. 19 569
All other expenses <sup>4</sup> .....	\$1,000.. 288 483

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

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number 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.

<sup>4</sup>Based on 2002 Annual Survey of Manufactures (ASM) sample data.

<sup>5</sup>A 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 <sup>1</sup>	All establishments <sup>2</sup>	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 <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
331210, Iron and steel pipe and tube manufacturing from purchased steel											
All establishments .....	1	183	22 653	924 071	17 437	37 336	642 351	2 509 943	4 085 214	6 608 720	'203 661
Establishments with—											
1 to 4 employees .....	3	10	17	578	12	23	366	2 224	1 105	3 022	'63
5 to 9 employees .....	3	11	77	3 062	61	129	2 233	10 183	18 632	28 415	'709
10 to 19 employees .....	4	14	197	8 602	143	300	5 511	23 070	36 177	58 029	'665
20 to 49 employees .....	1	38	1 318	51 782	1 017	2 165	35 284	142 476	235 466	380 645	'11 797
50 to 99 employees .....	1	31	2 081	77 378	1 618	3 270	53 413	249 734	415 164	665 835	'12 724
100 to 249 employees .....	—	54	9 120	371 183	6 803	13 968	246 636	905 370	1 448 830	2 353 586	'79 306
250 to 499 employees .....	—	20	6 661	266 384	5 278	12 107	186 598	563 112	895 883	1 475 289	'25 213
500 to 999 employees .....	2	5	3 182	145 102	2 505	5 374	112 310	613 774	1 033 957	1 643 899	'73 184
1,000 to 2,499 employees .....	—	—	—	—	—	—	—	—	—	—	—
2,500 employees or more .....	—	—	—	—	—	—	—	—	—	—	—
Administrative records <sup>4</sup> .....	9	5	111	5 857	87	178	3 760	14 050	25 432	38 533	'507

<sup>1</sup>Some 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.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number 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.

<sup>4</sup>Some 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 <sup>1</sup>	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 <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Hours (1,000)	Wages (\$1,000)				
331210	Iron and steel pipe and tube manufacturing from purchased steel .	183	22 653	924 071	17 437	37 336	642 351	2 509 943	4 085 214	6 608 720	'203 661
3312100	Iron and steel pipes and tubes, made from purchased iron and steel .....	183	22 653	924 071	17 437	37 336	642 351	2 509 943	4 085 214	6 608 720	'203 661

<sup>1</sup>Includes establishments with payroll at any time during the year.

<sup>2</sup>Number 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)
331210	Iron and steel pipe and tube manufacturing from purchased steel .....	2002.. N	X	X	7 112 294
	..... 1997.. N	N	X	X	7 267 491
3312100	Iron and steel pipes and tubes, made from purchased iron and steel .....	2002.. N	X	X	7 112 294
	..... 1997.. N	N	X	X	7 267 491
33121001	Iron and steel pipes and tubes, made from purchased iron and steel .....	2002.. N	X	X	7 107 813
	..... 1997.. N	N	X	X	7 265 290
3312100100	Iron and steel pipes and tubes, made from purchased iron and steel <sup>1</sup> .....	2002.. 140	X	X	7 107 813
	..... 1997.. 173	173	X	X	7 265 290
3312100Y	Iron and steel pipes and tubes, made from purchased iron and steel, nsk, total .....	2002.. N	X	X	4 481
	..... 1997.. N	N	X	X	2 201
3312100YWW	Iron and steel pipes and tubes, made from purchased iron and steel nsk, for nonadministrative-record establishments .....	2002.. N	X	X	4 481
	..... 1997.. N	N	X	X	2 201
3312100YWY	Iron and steel pipes and tubes, made from purchased iron and steel nsk, for administrative-record establishments .....	2002.. N	X	X	—
	..... 1997.. N	N	X	X	—

<sup>1</sup>For additional detail, see Current Industrial Report MA331B, Steel Mill Products. Also, this product code is primary to more than one industry. See industry 331111, product code 331111B100.

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)
331210	Iron and steel pipe and tube manufacturing from purchased steel		
00900001	Total materials .....	X	3 698 382
	.....2002..	X	4 267 754
	.....1997..	X	D
32700013	All other stone, clay, glass, and concrete products .....	X	D
	.....2002..	X	-
	.....1997..	X	-
32500011	Industrial chemicals (excluding sulfuric acid and oxygen) .....	X	9 818
	.....2002..	X	11 006
	.....1997..	X	
32512003	Oxygen (including high and low purity) .....	X	D
	.....2002..	X	887
	.....1997..	X	D
32518802	Sulfuric acid, new and spent (100 percent H2SO4) .....	X	D
	.....2002..	X	N
	.....1997..	X	N
32500039	All other chemicals and allied products .....	X	2 513
	.....2002..	X	275
	.....1997..	X	
32410017	Lubricating oils and greases and other petroleum products .....	X	9 859
	.....2002..	X	15 968
	.....1997..	X	4 532
33350003	Industrial dies, molds, jigs, and fixtures .....	X	10 427
	.....2002..	X	2 471 490
	.....1997..	X	3 114 161
331000AE	All other ferrous shapes and forms (excluding castings, forgings, and fabricated metal products) .....	P394.6	204 012
	.....1,000 s tons .....	D	D
	.....2002..	X	609
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....	X	N
	.....2002..	X	N
	.....1997..	X	N
33141933	Nickel (excluding ferronickel) shapes and forms (excluding castings, forgings, and fabricated metal products) .....	D	D
	.....1,000 s tons .....	D	D
	.....2002..	D	D
	.....1997..	D	D
33149105	Zinc and zinc-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....	D	D
	.....1,000 s tons .....	16.5	20 247
	.....2002..	X	70 449
33141905	All other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) .....	X	N
	.....2002..	X	N
	.....1997..	X	D
33151007	All other iron and steel castings .....	X	-
	.....2002..	X	-
	.....1997..	X	-
32712400	Clay refractories .....	X	D
	.....2002..	X	-
	.....1997..	X	-
32712500	Nonclay refractories .....	X	D
	.....2002..	X	-
	.....1997..	X	-
32741007	Lime fluxes, including quicklime .....	X	D
	.....2002..	X	34
	.....1997..	X	
33120067	Steel wire, for redrawing .....	D	D
	.....1,000 s tons .....	N	N
	.....2002..	D	D
33111201	Other ferroalloy shapes and forms (including silvery iron, ferrotungsten, ferromolybdenum, ferronickel, etc.) .....	D	N
	.....1,000 s tons .....	N	N
	.....2002..	X	624 059
00970099	All other materials and components, parts, containers, and supplies .....	X	617 421
	.....2002..	X	204 129
	.....1997..	X	435 407
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.