

Forest Service

Northern Research Station

Research Note NRS-18



Melody Cochran

Abstract

Provides current and historical information on primary and secondary hardwood products, production, prices, international trade, and employment.

Introduction

Data contained in this bulletin provide a general overview of recent trends in the hardwood market for use by hardwood-related industries, forest managers, the academic community, and the public. The statistics presented in this bulletin are not inclusive. Specific data series were selected on the basis of their availability and completeness and were derived from a variety of sources. Questions about data collection procedures should be directed to the issuing agency or organization.

The reported import and export data for hardwood logs, lumber, veneer, and plywood are reproduced in their entirety as received from the U.S. Department of Commerce, Bureau of the Census. Reporting errors have occurred in the

past due to coding and computing program errors and changes in tariff systems. For information on these errors, see Luppold (1995). Readers interested in export and import data are encouraged to reference additional sources when evaluating international trade statistics.

Readers interested in price data for specific sub regions of the domestic hardwood market are encouraged to contact state forestry officials for information on local market conditions.

Your input is critical in helping us make this bulletin more useful. We welcome comments or suggestions on different breakdowns of the data currently reported. Copies of this bulletin are free on request. Send your comments and requests to Melody Cochran at the address below.

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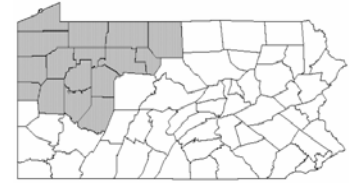
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HARDWOOD STUMPAGE, LOG, AND LUMBER PRICES

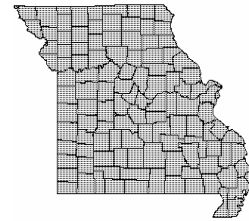
Table 1.—Average hardwood stumpage prices in northwestern Pennsylvania, 2002-2007



| Year/Qtr | Red oak | White oak | Black cherry | Hard maple | Soft maple | Yellow poplar |
|--|---------|-----------|--------------|------------|------------|---------------|
| <i>Dollars/Mbf, International ¼-inch scale</i> | | | | | | |
| 2002 | 490 | 157 | 1,374 | 376 | 177 | 119 |
| 2003 | 508 | 182 | 1,610 | 384 | 184 | 121 |
| 2004 | 522 | 213 | 1,549 | 356 | 180 | 112 |
| 2005 | 436 | 191 | 1,608 | 428 | 228 | 112 |
| 2006/1 | 429 | 190 | 1,363 | 480 | 232 | 120 |
| 2006/2 | 304 | 102 | 1,198 | 406 | 201 | 87 |
| 2006/3 | 338 | 175 | 1,411 | 407 | 223 | 101 |
| 2006/4 | 381 | 246 | 1,606 | 435 | 242 | 129 |
| 2006 avg. | 363 | 178 | 1,395 | 432 | 225 | 109 |
| 2007/1 | 390 | 259 | 1,528 | 403 | 233 | 132 |
| 2007/2 | 331 | 254 | 1,481 | 389 | 246 | 151 |
| 2007/3 | 310 | 285 | 1,478 | 335 | 240 | 105 |
| 2007/4 | 318 | 235 | 1,355 | 335 | 221 | 113 |
| 2007 avg. | 337 | 258 | 1,461 | 366 | 235 | 125 |

Source: The Pennsylvania State University, School of Forest Resources, Cooperative Extension, State College.

Table 2.—Average hardwood stumpage prices in Missouri, statewide, 2002-2007

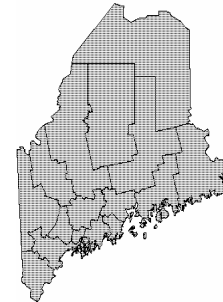


| Year/Qtr | Red oak | White oak | Ash | Hard maple | Soft maple | Mixed hardwoods |
|--|---------|-----------|-----|------------|------------|-----------------|
| <i>Dollars/Mbf, International ¼-inch scale</i> | | | | | | |
| 2002 | 185 | 159 | 90 | 150 | 180 | 115 |
| 2003 | 181 | 147 | 85 | 140 | 160 | 136 |
| 2004 | 206 | 191 | 139 | 107 | 176 | 118 |
| 2005 | 179 | 166 | NA | NA | 178 | 164 |
| 2006/1 | 220 | 195 | 115 | 100 | 145 | 95 |
| 2006/2 | 205 | 185 | 135 | 290 | NA | 70 |
| 2006/3 | 185 | 180 | 75 | NA | NA | 170 |
| 2006/4 | 190 | 340 | 130 | NA | 250 | 115 |
| 2006 avg. | 200 | 225 | 114 | NA | NA | 113 |
| 2007/1 | 265 | 210 | 105 | 190 | 180 | 170 |
| 2007/2 | 150 | 180 | 115 | 100 | 210 | 95 |
| 2007/3 | 215 | 300 | 105 | 170 | NA | 150 |
| 2007/4 | 195 | 200 | 85 | NA | 110 | 95 |
| 2007 avg. | 206 | 223 | 103 | NA | NA | 128 |

NA = Not available.

Source: Missouri Department of Conservation, Forestry Division, Jefferson City.

Table 3.—Average hardwood stumpage prices in Maine, statewide, 2001-2006



| Year | Red oak | Yellow birch | White ash | Hard maple | Soft maple |
|--|---------|--------------|-----------|------------|------------|
| <i>Dollars/Mbf, International ¼-inch scale</i> | | | | | |
| 2001 | 218 | 129 | 118 | 198 | 77 |
| 2002 | 230 | 125 | 111 | 168 | 78 |
| 2003 | 265 | 153 | 123 | 232 | 103 |
| 2004 | 304 | 185 | 118 | 247 | 121 |
| 2005 | 278 | 190 | 132 | 275 | 110 |
| 2006 | 227 | 169 | 125 | 263 | 115 |

Source: Maine Forest Service, Management and Utilization Division, Augusta.

Data for 2007 is not yet available.

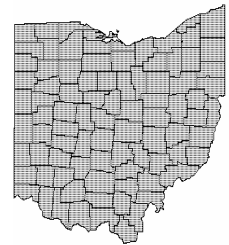
Table 4.—Average hardwood stumpage prices in the northern region of Mississippi, 2002- 2007



| Year/Qtr | Oak | Mixed hardwoods |
|---------------------------------|------------|------------------------|
| <i>Dollars/Mbf, Doyle scale</i> | | |
| 2002 | 293 | 171 |
| 2003 | 309 | 181 |
| 2004 | 324 | 197 |
| 2005 | 366 | 196 |
| 2006/1 | 349 | 254 |
| 2006/2 | 273 | 194 |
| 2006/3 | 253 | 203 |
| 2006/4 | 313 | 239 |
| 2006 avg. | 297 | 223 |
| 2007/1 | 229 | 243 |
| 2007/2 | 263 | 215 |
| 2007/3 | 271 | 249 |
| 2007/4 | 291 | 149 |
| 2007 avg. | 264 | 214 |

Source: Timber Mart-South; Center for Forest Business; Daniel B. Warnell School of Forest Resources, University of Georgia, Athens.

Table 5.—Average hardwood stumpage prices in Ohio, statewide, 2002-2007

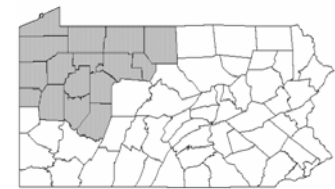


| Year/Season | White oak | Red oak | Cherry | Yellow-poplar |
|---------------------------------|------------------|----------------|---------------|----------------------|
| <i>Dollars/Mbf, Doyle scale</i> | | | | |
| 2002/spring | NA | NA | NA | NA |
| 2002/fall | NA | NA | NA | NA |
| 2003/spring | 359 | 454 | 704 | 226 |
| 2003/fall | 304 | 410 | 812 | 200 |
| 2004/spring | 371 | 481 | 900 | 172 |
| 2004/fall | 443 | 570 | 930 | 215 |
| 2005/spring | 270 | 308 | 648 | 138 |
| 2005/fall | 378 | 398 | 742 | 211 |
| 2006/spring | 319 | 322 | 719 | 175 |
| 2006/fall | 413 | 340 | 781 | 230 |
| 2007/spring | 488 | 318 | 732 | 165 |
| 2007/fall | 411 | 292 | 682 | 187 |

NA = Not available.

Source: Ohio Department of Natural Resources, Division of Forestry, Columbus.

Table 6.—Average hardwood mill prices of grade 1 logs in northwestern Pennsylvania, 2002-2007



| Year/Qtr | Red oak | White oak | Black cherry | Hard maple | Soft maple | Yellow poplar |
|--|---------|-----------|--------------|------------|------------|---------------|
| <i>Dollars/Mbf, International ¼-inch scale</i> | | | | | | |
| 2002 | 489 | 273 | 1,024 | 490 | 270 | 163 |
| 2003 | 540 | 298 | 1,113 | 476 | 286 | 173 |
| 2004 | 533 | 302 | 1,298 | 599 | 354 | 198 |
| 2005 | 471 | 344 | NA | 836 | 452 | 200 |
| 2006/1 | 494 | 346 | NA | 752 | 428 | 158 |
| 2006/2 | 450 | 301 | NA | 595 | 364 | 203 |
| 2006/3 | 482 | 376 | NA | 674 | 452 | 216 |
| 2006/4 | 434 | 309 | NA | 670 | 413 | 203 |
| 2006 avg. | 465 | 333 | NA | 673 | 414 | 195 |
| 2007/1 | 376 | 405 | NA | 538 | 464 | 236 |
| 2007/2 | 416 | 399 | NA | 579 | 509 | 218 |
| 2007/3 | 439 | 443 | NA | 579 | 494 | 218 |
| 2007/4 | 392 | 384 | NA | 529 | 417 | 202 |
| 2007 avg. | 406 | 408 | NA | 556 | 471 | 219 |

NA = Not available.

Source: The Pennsylvania State University, School of Forest Resources, Cooperative Extension, State College.



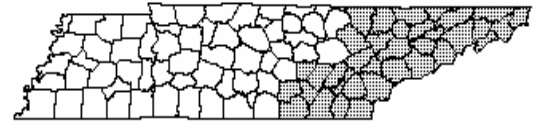
Table 7.—Average hardwood mill prices of grade 1 logs in Missouri, statewide, 1998-2003

| Year/Qtr | Red oak | White oak | Cherry | Ash | Soft maple | Black walnut |
|--|---------|-----------|--------|-----|------------|--------------|
| <i>Dollars/Mbf, International ¼-inch scale</i> | | | | | | |
| 1998 | 401 | 350 | 419 | 316 | 340 | 440 |
| 1999 | 422 | 394 | 634 | 366 | 435 | 471 |
| 2000 | 409 | 316 | 501 | 283 | 360 | 415 |
| 2001 | 457 | 365 | 744 | 302 | 379 | 516 |
| 2002/1 | 485 | 375 | 710 | 325 | 355 | 695 |
| 2002/2 | 405 | 390 | 1,105 | 340 | 470 | 865 |
| 2002/3 | 425 | 325 | 435 | 290 | 360 | 555 |
| 2002/4 | 370 | 625 | 415 | 415 | 280 | 1,245 |
| 2002 avg. | 421 | 429 | 666 | 342 | 366 | 840 |
| 2003/1 | 435 | 425 | 500 | 265 | 500 | 1,200 |
| 2003/2 | NA | NA | NA | NA | NA | NA |
| 2003/3 | NA | NA | NA | NA | NA | NA |
| 2003/4 | NA | NA | NA | NA | NA | NA |
| 2003 avg. | NA | NA | NA | NA | NA | NA |

NA = Not available – Data discontinued in 2003.

Source: Missouri Department of Conservation, Forestry Division, Jefferson City.

Table 8.—Average hardwood mill prices of grade 1 logs in eastern Tennessee, 2002-2007



| Year/Qtr | Red oak | White oak | Walnut | Ash | Hard maple | Yellow poplar |
|---------------------------------|---------|-----------|--------|-----|------------|---------------|
| <i>Dollars/Mbf, Doyle scale</i> | | | | | | |
| 2002 | 809 | 554 | 669 | 408 | 434 | 331 |
| 2003 | 869 | 628 | 669 | 460 | 591 | 377 |
| 2004 | NA | NA | NA | NA | NA | NA |
| 2005 | NA | NA | NA | NA | NA | NA |
| 2006/1 | 790 | 725 | 725 | 450 | 670 | 350 |
| 2006/2 | 780 | 720 | 725 | 450 | 670 | 350 |
| 2006/3 | 700 | 690 | 725 | 400 | 700 | 350 |
| 2006/4 | 700 | 710 | 725 | 400 | 650 | 400 |
| 2006 avg. | 743 | 711 | 725 | 425 | 673 | 363 |
| 2007/1 | 750 | 810 | 900 | 410 | 775 | 400 |
| 2007/2 | 600 | 820 | 1,000 | 370 | 650 | 320 |
| 2007/3 | NA | NA | NA | NA | NA | NA |
| 2007/4 | NA | NA | NA | NA | NA | NA |
| 2007/avg. | NA | NA | NA | NA | NA | NA |

NA = Not available.

Source: Tennessee Division of Forestry, Utilization Section, Nashville.

Table 9.—Average hardwood mill prices in the northern region of Mississippi, 2002-2007

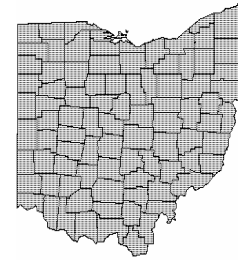


| Year/Qtr | Oak | Mixed hardwoods |
|---------------------------------|-----|-----------------|
| <i>Dollars/Mbf, Doyle scale</i> | | |
| 2002 | 376 | 322 |
| 2003 | 388 | 410 |
| 2004 | NA | 374 |
| 2005 avg. | 478 | 414 |
| 2006/1 | 427 | 405 |
| 2006/2 | 427 | 405 |
| 2006/3 | 405 | 381 |
| 2006/4 | 403 | 359 |
| 2006 avg. | 416 | 388 |
| 2007/1 | 403 | 359 |
| 2007/2 | 525 | 350 |
| 2007/3 | 459 | 337 |
| 2007/4 | 457 | 452 |
| 2007 avg. | 461 | 375 |

NA = Not available.

Source: Timber Mart-South; Center for Forest Business; Daniel B. Warnell School of Forest Resources, University of Georgia, Athens.

Table 10.—Average hardwood mill prices of red oak logs in Ohio, statewide, 2002-2007



| Year/Season | Average all grades | Grade 1 16 inches | Grade 1 | Grade 2 | Grade 3 |
|---------------------------------|--------------------|-------------------|---------|---------|---------|
| <i>Dollars/Mbf, Doyle scale</i> | | | | | |
| 2002/spring | NA | NA | NA | NA | NA |
| 2002/fall | NA | NA | NA | NA | NA |
| 2003/spring | 497 | 847 | 538 | 318 | 167 |
| 2003/fall | 583 | 839 | 527 | 321 | 172 |
| 2004/spring | 559 | 895 | 567 | 317 | 181 |
| 2004/fall | 590 | 863 | 611 | 356 | 166 |
| 2005/spring | 429 | 679 | 358 | 201 | 148 |
| 2005/fall | 425 | 725 | 445 | 293 | 174 |
| 2006/spring | 423 | 658 | 350 | 217 | 164 |
| 2006/fall | 413 | 694 | 416 | 248 | 174 |
| 2007/spring | 375 | 653 | 403 | 231 | 157 |
| 2007/fall | 386 | 604 | 404 | 265 | 168 |

NA = Not available.

Source: Ohio Department of Natural Resources, Division of Forestry, Columbus.

Table 11.—Green hardwood lumber prices, 2002-2007

| Year/Qtr | 4/4 Appalachian Red oak 1C | 4/4 Poplar 1C | 4/4 Cherry 1C | 4/4 Northern Hard maple 1C | 4/4 Northern Soft maple 1C |
|--------------------|----------------------------|---------------|---------------|----------------------------|----------------------------|
| <i>Dollars/Mbf</i> | | | | | |
| 2002 | 717 | 396 | 1,132 | 1,005 | 582 |
| 2003 | 815 | 406 | 1,426 | 1,008 | 613 |
| 2004 | 855 | 395 | 1,560 | 1,116 | 666 |
| 2005 | 689 | 403 | 1,376 | 1,272 | 794 |
| 2006/1 | 645 | 410 | 1,290 | 1,275 | 790 |
| 2006/2 | 625 | 410 | 1,305 | 1,255 | 780 |
| 2006/3 | 625 | 410 | 1,305 | 1,225 | 750 |
| 2006/4 | 625 | 410 | 1,335 | 1,185 | 750 |
| 2006 avg. | 630 | 410 | 1,309 | 1,235 | 768 |
| 2007/1 | 625 | 400 | 1,335 | 1,105 | 750 |
| 2007/2 | 625 | 390 | 1,230 | 1,035 | 675 |
| 2007/3 | 625 | 360 | 1,230 | 1,035 | 600 |
| 2007/4 | 625 | 350 | 1,230 | 1,035 | 600 |
| 2007/avg. | 625 | 375 | 1,256 | 1,053 | 656 |

Source: Hardwood Market Report, Memphis, TN

Table 12.—Kiln-dried hardwood lumber prices, 2002-2007

| Year/Qtr | 4/4 Appalachian Red oak 1C | 4/4 Poplar 1C | 4/4 Cherry 1C | 4/4 Northern Hard maple 1C | 4/4 Northern Soft maple 1C |
|--------------------|---|------------------------------|------------------------------|---|---|
| <i>Dollars/Mbf</i> | | | | | |
| 2002 | 979 | 539 | 1,429 | 1,225 | 807 |
| 2003 | 1,076 | 553 | 1,723 | 1,263 | 860 |
| 2004 | 1,163 | 536 | 1,965 | 1,190 | 923 |
| 2005 | 925 | 550 | 1,796 | NA | 999 |
| 2006/1 | 898 | 570 | 1,710 | NA | 1,020 |
| 2006/2 | 905 | 575 | 1,710 | NA | 1,000 |
| 2006/3 | 893 | 575 | 1,715 | NA | 995 |
| 2006/4 | 885 | 575 | 1,675 | NA | 930 |
| 2006 avg. | 895 | 574 | 1,703 | NA | 986 |
| 2007/1 | 873 | 550 | 1,630 | NA | 1,145 |
| 2007/2 | 848 | 535 | 1,570 | NA | 1,155 |
| 2007/3 | 850 | 530 | 1,485 | NA | 1,050 |
| 2007/4 | 853 | 520 | 1,385 | NA | 1,000 |
| 2007 avg. | 856 | 534 | 1,518 | NA | 1,087 |

NA = Not available.

Source: Weekly Hardwood Review, Charlotte, NC.

HARDWOOD PRODUCT PRICES, PRODUCTION, AND EMPLOYMENT

Table 13.—Producer price indexes for selected wood industries, 2002-2007

| Year/Qtr | Hardwood lumber | Hardwood dimension | Wood kitchen cabinets | Wood household furniture | Upholstered household furniture | Wood office furniture | All commodities |
|-----------------|-----------------|--------------------|-----------------------|--------------------------|---------------------------------|-----------------------|-----------------|
| <i>1982=100</i> | | | | | | | |
| 2002 | 178.3 | 188.5 | 169.7 | 177.2 | 151.1 | 175.1 | 131.1 |
| 2003 | 188.8 | 190.1 | 174.4 | 179.0 | 152.4 | 177.8 | 138.1 |
| 2004 | 199.3 | 195.6 | 178.9 | 180.6 | 153.4 | 179.1 | 146.7 |
| 2005 | 196.7 | 198.5 | 183.4 | 186.2 | 156.7 | 182.0 | 157.4 |
| 2006/1 | 195.5 | 199.4 | 186.5 | 189.7 | 162.1 | 185.4 | 162.8 |
| 2006/2 | 195.8 | 199.7 | 187.6 | 190.2 | 163.4 | 186.4 | 165.4 |
| 2006/3 | 194.7 | 198.8 | 188.1 | 190.7 | 163.9 | 187.7 | 166.7 |
| 2006/4 | 195.1 | 198.5 | 188.4 | 192.0 | 164.6 | 189.4 | 164.1 |
| 2006 avg. | 195.3 | 199.1 | 187.6 | 190.7 | 163.5 | 187.2 | 164.7 |
| 2007/1 | 194.2 | 200.4 | 190.7 | 192.8 | 164.8 | 192.0 | 166.7 |
| 2007/2 | 192.4 | 198.4 | 191.8 | 193.3 | 166.2 | 194.4 | 172.8 |
| 2007/3 | 192.3 | 192.9 | 192.1 | 194.8 | 167.0 | 194.5 | 173.7 |
| 2007/4 | 190.3 | 192.6 | 192.3 | 194.7 | 169.1 | 194.6 | 177.6 |
| 2007 avg. | 192.3 | 196.1 | 191.8 | 193.9 | 166.8 | 193.9 | 172.7 |

Source: U.S. Department of Labor, Bureau of Labor Statistics, Washington, DC.

Table 14.—Value of nonupholstered wood household furniture shipments and nonupholstered wood household furniture imports, 2001-2006

| Year | Value of nonupholstered wood household furniture shipments (actual \$) ¹ | Value of nonupholstered wood household furniture shipments (1982 \$) ² | Value of nonupholstered wood household furniture imports (actual \$, c.i.f.) ³ | Value of nonupholstered wood household furniture imports (1982 \$, c.i.f.) ² | Ratio of imports to shipments ⁴ |
|----------------------------|---|---|---|---|--|
| <i>Millions of Dollars</i> | | | | | |
| 2001 | 10,184.2 | 5,870 | 6,354.6 ^R | 3,663 ^R | 0.62 ^R |
| 2002 | 11,456.9 | 6,466 | 7,606.1 ^R | 4,292 ^R | 0.66 ^R |
| 2003 | 9,396.4 | 5,249 | 8,349.3 ^R | 4,664 ^R | 0.89 ^R |
| 2004 | 9,736.3 | 5,391 | 9,485.6 ^R | 5,252 ^R | 0.97 ^R |
| 2005 | 8,902 ^R | 4,781 ^R | 10,491.2 ^R | 5,634 ^R | 1.18 ^R |
| 2006 | 8,524 | 4,960 | 10,872.1 | 5,701 | 1.28 |

¹ Source: U.S. Department of Commerce, Washington, DC.

² Deflated by wood household furniture price index listed in Table 13.

³ Source: U.S. Department of Commerce, Bureau of the Census, Washington, DC.

⁴ Developed from columns 1 and 3.

^R - Revised.

Table 15.—Shipments of oak strip flooring, 2002-2007

| Year | Oak strip flooring |
|------|---------------------------------|
| | <i>Thousands of square feet</i> |
| 2002 | 483,177 |
| 2003 | 487,498 |
| 2004 | 518,049 |
| 2005 | 527,241 |
| 2006 | 483,145 |
| 2007 | 449,325 (P) |

(P)- Preliminary Data

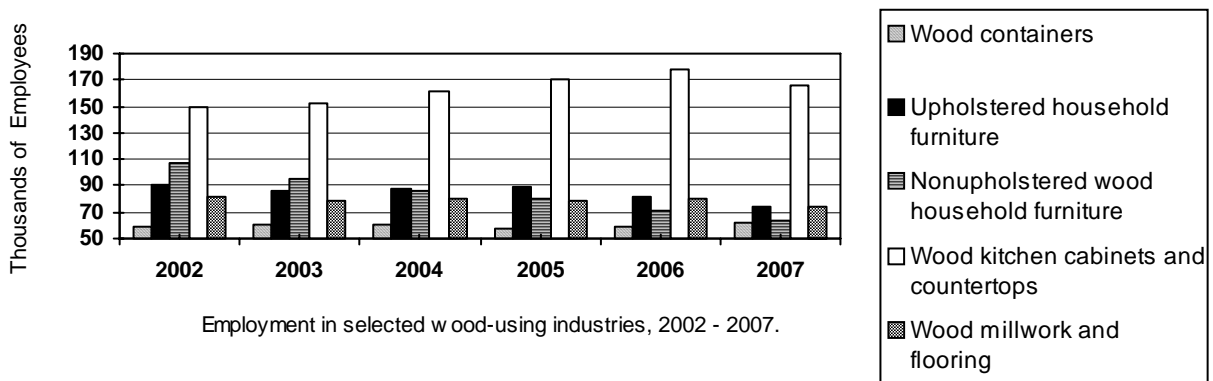
Source: National Oak Flooring Manufacturers Association, Memphis, TN.

Table 16.—Employment in selected wood-using industries, 2002-2007

| Year/Qtr | Wood containers | Upholstered household furniture | Nonupholstered wood household furniture | Wood kitchen cabinets and countertops | Wood millwork and flooring |
|-----------|-------------------------------|---------------------------------|---|---------------------------------------|----------------------------|
| | <i>Thousands of employees</i> | | | | |
| 2002 | 59.7 | 91.2 | 107.1 | 149.2 | 81.7 |
| 2003 | 59.8 | 86.1 | 95.2 | 153.1 | 78.3 |
| 2004 | 60.8 | 88.3 | 86.3 | 161.2 | 80.4 |
| 2005 | 58.5 | 85.9 | 79.0 | 170.3 | 80.3 |
| 2006/1 | 58.5 | 83.2 | 74.6 | 175.2 | 80.4 |
| 2006/2 | 59.4 | 81.5 | 72.6 | 180.0 | 81.0 |
| 2006/3 | 60.1 | 79.4 | 68.6 | 179.4 | 79.8 |
| 2006/4 | 57.7 | 79.4 | 67.1 | 174.9 | 77.4 |
| 2006 avg. | 58.9 | 80.9 | 70.7 | 177.4 | 79.7 |
| 2007/1 | 59.6 | 75.9 | 65.7 | 167.9 | 75.9 |
| 2007/2 | 61.0 | 75.2 | 64.7 | 169.7 | 74.1 |
| 2007/3 | 63.1 | 73.0 | 62.9 | 166.5 | 74.4 |
| 2007/4 | 63.7 | 73.4 | 60.7 | 161.0 | 73.2 |
| 2007 avg. | 61.8 | 74.4 | 63.5 | 166.3 | 74.4 |

North American Industrial Classification System.

Source: U.S. Department of Labor, Bureau of Labor Statistics, Washington, DC.



INTERNATIONAL HARDWOOD PRODUCT TRADE

Table 17.—International exchange rate, foreign currency per U.S. dollar, 2002-2007

| Year/Qtr | Brazil (real) | Canada (dollar) | China (Yuan) | Euro | Hong Kong (H.K. \$) | Japan (yen) |
|-----------------|--------------------------|----------------------------|-------------------------|-------------|------------------------------------|------------------------|
| 2003 | 3.0794 | 1.4012 | 8.2772 | 0.8853 | 7.7875 | 115.92 |
| 2004 | 2.9267 | 1.3016 | 8.2768 | 0.8048 | 7.7888 | 108.16 |
| 2005 | 2.4342 | 1.2162 | 8.1976 | 0.8047 | 7.7788 | 110.14 |
| 2006/1 | 2.1927 | 1.1547 | 8.0505 | 0.8312 | 7.7574 | 116.87 |
| 2006/2 | 2.1824 | 1.1226 | 8.0105 | 0.7957 | 7.7578 | 114.48 |
| 2006/3 | 2.1705 | 1.1212 | 7.9651 | 0.7851 | 7.7774 | 116.30 |
| 2006/4 | 2.1496 | 1.1392 | 7.8620 | 0.7750 | 7.7799 | 117.75 |
| 2006 avg. | 2.1738 | 1.1344 | 7.9720 | 0.7968 | 7.7681 | 116.35 |
| 2007/1 | 2.1066 | 1.1718 | 7.7582 | .7630 | 7.8082 | 119.40 |
| 2007/2 | 1.9820 | 1.0984 | 7.6784 | .7416 | 7.8161 | 120.80 |
| 2007/3 | 1.9152 | 1.0449 | 7.5567 | .7271 | 7.8059 | 117.73 |
| 2007/4 | 1.7836 | 0.9816 | 7.4304 | .6811 | 7.7767 | 113.13 |
| 2007 avg. | 1.9469 | 1.0742 | 7.6059 | .7282 | 7.8017 | 117.8 |

| Year/Qtr | Malaysia (ringgit) | Mexico (peso) | Singapore (S. dollar) | South Africa (rand) | South Korea (won) | U.K. (pound) |
|-----------------|-------------------------------|--------------------------|----------------------------------|------------------------------------|----------------------------------|-------------------------|
| 2003 | 3.8000 | 10.80 | 1.7408 | 7.5562 | 1,191.98 | 0.612 |
| 2004 | 3.8000 | 11.29 | 1.6902 | 6.4480 | 1,145.90 | 0.546 |
| 2005 | 3.7870 | 10.91 | 1.6616 | 6.3599 | 1,024.20 | 0.550 |
| 2006/1 | 3.7282 | 10.59 | 1.6269 | 6.1450 | 975.33 | 0.570 |
| 2006/2 | 3.6452 | 11.18 | 1.5892 | 6.4559 | 949.29 | 0.547 |
| 2006/3 | 3.6703 | 10.95 | 1.5798 | 7.1552 | 954.68 | 0.534 |
| 2006/4 | 3.6217 | 10.88 | 1.5578 | 7.3033 | 937.68 | 0.523 |
| 2006 avg. | 3.6664 | 10.90 | 1.5884 | 6.7649 | 954.25 | 0.544 |
| 2007/1 | 3.4969 | 11.02 | 1.5316 | 7.2393 | 938.85 | 0.512 |
| 2007/2 | 3.4270 | 10.88 | 1.5249 | 7.0896 | 928.71 | 0.503 |
| 2007/3 | 3.4638 | 10.96 | 1.5226 | 7.0963 | 927.07 | 0.495 |
| 2007/4 | 3.3549 | 10.85 | 1.4466 | 6.7666 | 921.62 | 0.489 |
| 2007 avg. | 3.4357 | 10.93 | 7.0479 | 1.6917 | 929.06 | 0.500 |

Source: Federal Reserve Bank of St. Louis and Federal Reserve Board of Governors, Washington, DC.

Table 18A.—Volume and value of U.S. hardwood log exports, by destination region, 2002-2006

| Year | Canada | | Central and South America and Caribbean | | Western Europe | |
|------|--|---------|---|--------|----------------|---------|
| | Volume | Value | Volume | Value | Volume | Value |
| | <i>Cubic meters and thousands of dollars, f.a.s.</i> | | | | | |
| 2002 | 1,609,415 | 173,877 | 13,784 | 6,558 | 225,012 | 97,499 |
| 2003 | 1,512,180 | 192,339 | 27,049 | 10,393 | 240,942 | 115,181 |
| 2004 | 1,370,020 | 208,036 | 36,254 | 12,179 | 272,102 | 136,443 |
| 2005 | 1,610,211 | 201,017 | 23,601 | 8,981 | 223,746 | 129,880 |
| 2006 | 1,068,202 | 170,052 | 20,701 | 8,299 | 272,152 | 166,127 |

| Year | Asia | | All other | | Total | |
|------|--|---------|-----------|-------|-----------|---------|
| | Volume | Value | Volume | Value | Volume | Value |
| | <i>Cubic meters and thousands of dollars, f.a.s.</i> | | | | | |
| 2002 | 411,154 | 167,037 | 10,803 | 3,813 | 2,270,168 | 448,785 |
| 2003 | 374,672 | 163,500 | 11,843 | 6,965 | 2,166,686 | 488,379 |
| 2004 | 465,759 | 206,570 | 8,676 | 4,725 | 2,153,081 | 567,956 |
| 2005 | 497,474 | 234,486 | 13,653 | 8,014 | 2,368,685 | 582,377 |
| 2006 | 575,094 | 263,597 | 12,302 | 6,110 | 1,948,451 | 614,185 |

Source: U.S. Department of Commerce, Bureau of the Census, Washington, DC.

Table 18B.—Major destinations for U.S. hardwood log exports for 2007 – volume

| Year/Qtr | <i>Cubic meters</i> | | | | | | | | |
|----------|---------------------|---------|--------|--------|-----------|---------|--------|---------|---------|
| | Canada | China | Italy | Japan | Hong Kong | Germany | Korea | Other | Total |
| 2007/1 | 233,556 | 87,678 | 36,929 | 26,201 | 20,998 | 20,794 | 12,564 | 99,520 | 528,240 |
| 2007/2 | 173,871 | 123,700 | 48,939 | 26,450 | 21,259 | 20,846 | 20,400 | 135,121 | 570,586 |
| 2007/3 | 140,777 | 111,806 | 17,781 | 17,324 | 16,328 | 14,879 | 12,438 | 84,553 | 415,886 |
| 2007/4 | 166,721 | 96,337 | 33,286 | 26,385 | 23,405 | 20,881 | 17,537 | 96,762 | 481,314 |

Table 18C.—Major destinations for U.S. hardwood log exports for 2007 – value

| Year/Qtr | <i>Thousands of dollars, f.a.s.</i> | | | | | | | | |
|----------|-------------------------------------|--------|---------|--------|-----------|--------|--------|--------|---------|
| | Canada | China | Germany | Italy | Hong Kong | Japan | Spain | Other | Total |
| 2007/1 | 44,296 | 42,094 | 15,622 | 14,665 | 13,064 | 10,077 | 8,084 | 54,558 | 202,460 |
| 2007/2 | 57,689 | 31,796 | 19,270 | 17,177 | 13,818 | 13,352 | 10,332 | 72,631 | 236,065 |
| 2007/3 | 47,288 | 27,121 | 12,434 | 11,551 | 9,940 | 8,128 | 7,650 | 45,834 | 169,946 |
| 2007/4 | 42,757 | 32,086 | 14,844 | 14,785 | 14,421 | 11,328 | 8,893 | 58,400 | 197,514 |

Source: U.S. Department of Commerce, Bureau of the Census, Washington, DC

Table 19A.—Volume and value of U.S. hardwood lumber exports, by destination region, 2002-2006

| Year | Canada | | Central and South America and Caribbean | | Western Europe | |
|------|--|---------|---|---------|----------------|---------|
| | Volume | Value | Volume | Value | Volume | Value |
| | <i>Cubic meters and thousands of dollars, f.a.s.</i> | | | | | |
| 2002 | 966,314 | 358,881 | 175,898 | 65,455 | 671,055 | 401,775 |
| 2003 | 1,016,122 | 412,212 | 176,107 | 72,458 | 644,136 | 403,155 |
| 2004 | 1,044,771 | 431,663 | 253,710 | 102,250 | 678,134 | 452,036 |
| 2005 | 995,131 | 409,121 | 286,780 | 115,432 | 664,264 | 468,040 |
| 2006 | 918,276 | 405,713 | 302,036 | 128,494 | 715,235 | 501,733 |

| Year | Asia | | All other | | Total | |
|------|--|---------|-----------|--------|-----------|-----------|
| | Volume | Value | Volume | Value | Volume | Value |
| | <i>Cubic meters and thousands of dollars, f.a.s.</i> | | | | | |
| 2002 | 877,194 | 376,340 | 33,759 | 21,741 | 2,724,220 | 1,224,192 |
| 2003 | 834,782 | 362,500 | 33,760 | 22,014 | 2,707,907 | 1,272,339 |
| 2004 | 979,656 | 433,116 | 35,219 | 24,311 | 2,991,490 | 1,443,376 |
| 2005 | 991,093 | 442,515 | 43,455 | 30,196 | 2,980,723 | 1,465,302 |
| 2006 | 1,012,472 | 528,250 | 37,713 | 28,147 | 3,078,806 | 1,592,337 |

Source: U.S. Department of Commerce, Bureau of the Census, Washington, DC.

Table 19B.—Major destinations for U.S. hardwood lumber exports for 2007 – volume

| Year/Qtr | <i>Cubic meters</i> | | | | | | | | |
|----------|---------------------|---------|--------|--------|--------|---------|--------|---------|---------|
| | Canada | China | Mexico | Italy | Spain | Vietnam | UK | Other | Total |
| 2007/1 | 219,414 | 114,342 | 63,982 | 63,312 | 35,186 | 31,576 | 24,603 | 171,215 | 723,630 |
| 2007/2 | 224,752 | 133,756 | 58,116 | 55,511 | 41,195 | 29,066 | 23,700 | 147,205 | 713,301 |
| 2007/3 | 198,221 | 131,129 | 54,285 | 41,161 | 40,845 | 24,746 | 22,974 | 135,529 | 648,890 |
| 2007/4 | 189,144 | 116,393 | 55,203 | 47,848 | 46,884 | 35,587 | 19,759 | 124,996 | 635,814 |

Table 19C.—Major destinations for U.S. hardwood lumber exports for 2007 – value

| Year/Qtr | <i>Thousands of dollars, f.a.s.</i> | | | | | | | | |
|----------|-------------------------------------|--------|--------|--------|--------|--------|---------|---------|---------|
| | Canada | China | Italy | Mexico | Spain | UK | Vietnam | Other | Total |
| 2007/1 | 98,892 | 51,803 | 33,309 | 25,130 | 24,062 | 17,724 | 13,158 | 112,602 | 376,680 |
| 2007/2 | 97,484 | 60,453 | 28,842 | 24,185 | 19,436 | 16,967 | 16,798 | 100,070 | 364,235 |
| 2007/3 | 89,371 | 57,046 | 22,462 | 22,340 | 17,129 | 16,823 | 16,076 | 95,705 | 336,952 |
| 2007/4 | 82,349 | 49,800 | 26,156 | 23,659 | 22,637 | 18,379 | 13,551 | 88,925 | 325,456 |

Source: U.S. Department of Commerce, Bureau of the Census, Washington, DC

Table 20A.—Volume and value of U.S. hardwood veneer exports, by destination region, 2002-2006

| Year | Canada | | Central and South America and Caribbean | | Western Europe | |
|------|---|---------|---|--------|----------------|---------|
| | Volume | Value | Volume | Value | Volume | Value |
| | <i>Million square meters and thousands of dollars, f.a.s.</i> | | | | | |
| 2002 | 99.1 | 130,977 | 13.3 | 17,281 | 113.9 | 157,403 |
| 2003 | 95.5 | 138,450 | 13.3 | 16,831 | 113.7 | 162,214 |
| 2004 | 115.2 | 146,272 | 20.4 | 25,734 | 111.4 | 163,382 |
| 2005 | 114.1 | 144,030 | 22.9 | 27,463 | 107.4 | 164,873 |
| 2006 | 116.1 | 150,164 | 22.1 | 25,794 | 106.2 | 166,253 |

| Year | Asia | | All other | | Total | |
|------|---|---------|-----------|--------|--------|---------|
| | Volume | Value | Volume | Value | Volume | Value |
| | <i>Million square meters and thousands of dollars, f.a.s.</i> | | | | | |
| 2002 | 79.5 | 95,998 | 11.4 | 11,943 | 317.3 | 413,602 |
| 2003 | 63.7 | 77,055 | 12.2 | 14,263 | 298.4 | 408,814 |
| 2004 | 75.3 | 103,516 | 12.8 | 15,099 | 335.3 | 454,001 |
| 2005 | 59.5 | 74,900 | 11.0 | 12,266 | 314.9 | 423,531 |
| 2006 | 39.8 | 54,075 | 12.4 | 14,865 | 296.7 | 411,151 |

Source: U.S. Department of Commerce, Bureau of the Census, Washington, DC.

Table 20B.—Major destinations for U.S. hardwood veneer exports for 2007 - volume

| Year/Qtr | <i>Million square meters</i> | | | | | | | | |
|----------|------------------------------|------------|-----------|-----------|-----------|-----------|-----------|------------|------------|
| | Canada | Germany | Spain | Mexico | Italy | China | Belgium | Other | Total |
| 2007/1 | 26,455,089 | 9,010,780 | 8,446,810 | 4,088,982 | 4,069,940 | 3,108,954 | 2,218,177 | 15,257,790 | 72,656,522 |
| 2007/2 | 31,355,790 | 10,011,534 | 8,819,100 | 4,922,817 | 3,474,356 | 3,346,194 | 2,835,660 | 17,507,487 | 82,272,938 |
| 2007/3 | 24,841,141 | 6,964,827 | 5,754,313 | 4,248,384 | 3,722,938 | 3,121,726 | 2,048,359 | 13,625,618 | 64,327,306 |
| 2007/4 | 22,578,593 | 9,325,079 | 8,807,562 | 4,541,908 | 3,645,741 | 3,390,998 | 2,085,383 | 14,124,037 | 68,499,301 |

Table 20C.—Major destinations for U.S. hardwood veneer exports for 2007 - value

| Year/Qtr | <i>Thousands of dollars, f.a.s.</i> | | | | | | | | |
|----------|-------------------------------------|---------|--------|-------|--------|-------|---------|--------|---------|
| | Canada | Germany | Spain | Italy | Mexico | China | Belgium | Other | Total |
| 2007/1 | 37,146 | 13,782 | 13,519 | 7,540 | 4,798 | 4,196 | 3,418 | 22,260 | 106,659 |
| 2007/2 | 42,066 | 16,262 | 13,940 | 7,340 | 6,624 | 4,825 | 4,521 | 26,157 | 121,735 |
| 2007/3 | 34,056 | 10,456 | 8,942 | 7,193 | 6,510 | 4,790 | 3,063 | 19,930 | 94,940 |
| 2007/4 | 29,388 | 15,152 | 13,655 | 7,370 | 7,296 | 4,159 | 3,109 | 21,510 | 101,639 |

Source: U.S. Department of Commerce, Bureau of the Census, Washington, DC

Table 21A.—Volume and value of U.S. hardwood plywood exports, by destination region, 2002- 2006

| Year | Canada | | Central and South America and Caribbean | | Western Europe | |
|------|--|--------|---|--------|----------------|-------|
| | Volume | Value | Volume | Value | Volume | Value |
| | <i>Cubic meters and thousands of dollars, f.a.s.</i> | | | | | |
| 2002 | 41,383 | 20,075 | 20,357 | 7,179 | 1,907 | 826 |
| 2003 | 59,427 | 29,362 | 17,031 | 4,251 | 1,209 | 660 |
| 2004 | 84,596 | 30,120 | 45,885 | 10,088 | 2,984 | 1,204 |
| 2005 | 79,013 | 27,631 | 42,908 | 12,033 | 3,427 | 1,263 |
| 2006 | 69,830 | 31,090 | 24,576 | 11,201 | 3,436 | 1,646 |

| Year | Asia | | All other | | Total | |
|------|--|-------|-----------|-------|---------|--------|
| | Volume | Value | Volume | Value | Volume | Value |
| | <i>Cubic meters and thousands of dollars, f.a.s.</i> | | | | | |
| 2002 | 2,230 | 1,231 | 148 | 49 | 66,025 | 29,360 |
| 2003 | 1,917 | 1,449 | 422 | 160 | 80,006 | 35,882 |
| 2004 | 3,832 | 2,932 | 212 | 90 | 137,509 | 44,435 |
| 2005 | 2,993 | 1,290 | 578 | 309 | 128,919 | 42,528 |
| 2006 | 1,870 | 1,044 | 517 | 241 | 100,229 | 45,221 |

Source: U.S. Department of Commerce, Bureau of the Census, Washington, DC.

Table 21B.—Major destinations for U.S. hardwood plywood exports for 2007 - volume

| Year/Qtr | <i>Cubic meters</i> | | | | | | | | |
|----------|---------------------|------------|-----------|-----------|-----------|-----------|-----------|------------|------------|
| 2007/1 | Canada | Germany | Spain | Mexico | Italy | China | Belgium | Other | Total |
| | 26,521,557 | 9,563,945 | 8,572,750 | 4,350,454 | 4,342,201 | 3,408,130 | 2,218,177 | 16,887,286 | 75,864,500 |
| 2007/2 | Canada | Spain | Germany | China | Italy | Mexico | Belgium | Other | Total |
| | 31,728,671 | 10,147,375 | 9,026,255 | 5,490,595 | 3,643,034 | 3,456,264 | 2,835,660 | 19,483,278 | 85,811,132 |
| 2007/3 | Canada | Germany | Spain | China | Italy | Mexico | Belgium | Other | Total |
| | 24,930,602 | 7,325,279 | 5,841,785 | 5,043,533 | 3,878,563 | 3,511,157 | 2,092,955 | 14,783,334 | 67,407,208 |
| 2007/4 | Canada | Spain | Germany | China | Italy | Mexico | Belgium | Other | Total |
| | 22,709,128 | 9,367,882 | 9,026,288 | 5,079,556 | 3,683,438 | 3,619,877 | 2,179,370 | 15,852,643 | 71,518,182 |

Table 21C.—Major destinations for U.S. hardwood plywood exports for 2007 - value

| Year/Qtr | <i>Thousands of dollars, f.a.s.</i> | | | | | | | | |
|----------|-------------------------------------|------------|------------|-----------|-----------|-----------|-----------|------------|-------------|
| 2007/1 | Canada | Germany | Spain | Italy | Mexico | China | Belgium | Other | Total |
| | 37,306,158 | 14,721,655 | 13,733,336 | 8,036,597 | 5,069,266 | 4,687,844 | 3,417,932 | 24,854,482 | 111,827,270 |
| 2007/2 | Canada | Spain | Germany | China | Italy | Mexico | Belgium | Other | Total |
| | 42,738,528 | 16,493,552 | 14,257,089 | 8,432,715 | 7,015,840 | 5,036,040 | 4,520,680 | 28,956,543 | 127,450,987 |
| 2007/3 | Canada | Germany | Spain | China | Italy | Mexico | Belgium | Other | Total |
| | 32,241,668 | 11,005,249 | 9,124,523 | 8,427,508 | 7,522,438 | 5,295,428 | 3,152,671 | 21,894,854 | 98,664,339 |
| 2007/4 | Canada | Spain | Germany | China | Italy | Mexico | Belgium | Other | Total |
| | 29,691,491 | 15,261,449 | 13,961,605 | 8,503,336 | 7,471,427 | 4,437,350 | 3,289,184 | 24,128,967 | 106,744,809 |

Source: U.S. Department of Commerce, Bureau of the Census, Washington, DC

Table 22A.—Volume and value of U.S. hardwood log imports, by region of origin, 2002-2006

| Year | Canada | | Central and South America and Caribbean | | Africa | |
|------|--|--------|---|-------|---------|--------|
| | Volume | Value | Volume | Value | Volume | Value |
| | <i>Cubic meters and thousands of dollars, f.a.s.</i> | | | | | |
| 2002 | 245,901 | 35,179 | 21,919 | 3,338 | 938 | 532 |
| 2003 | 169,531 | 32,381 | 10,280 | 3,544 | 546 | 600 |
| 2004 | 169,562 | 32,146 | 10,458 | 4,561 | 1,039 | 832 |
| 2005 | 168,928 | 32,067 | 16,731 | 5,537 | 881 | 961 |
| 2006 | 144,779 | 27,532 | 10,647 | 3,324 | 2,879 | 1,886 |
| Year | Asia and Pacific Ocean | | All other | | Total | |
| | Volume | Value | Volume | Value | Volume | Value |
| | <i>Cubic meters and thousand of dollars, f.a.s.</i> | | | | | |
| 2002 | 1,050 | 947 | 5,611 | 2,615 | 275,419 | 42,611 |
| 2003 | 4,440 | 1,383 | 5,217 | 2,922 | 190,014 | 40,830 |
| 2004 | 2,152 | 1,674 | 4,041 | 2,862 | 187,252 | 42,075 |
| 2005 | 6,375 | 651 | 5,411 | 2,765 | 198,326 | 41,974 |
| 2006 | 1,596 | 878 | 19,254 | 3,323 | 179,155 | 35,940 |

Source: U.S. Department of Commerce, Bureau of the Census, Washington, DC.

Table 22B.—Major sources of U.S. hardwood log imports for 2007 –volume

| Year/Qtr | Cubic meters | | | | | | | | |
|----------|--------------|-------|--------|--------|-----------|----------|-----------|-------|--------|
| | Canada | China | Russia | France | Indonesia | Cameroon | Singapore | Other | Total |
| 2007/1 | 9,001 | 506 | 326 | 179 | 26 | 25 | 19 | 29 | 10,111 |
| 2007/2 | 5,655 | 393 | 305 | 109 | 101 | 79 | 48 | 16 | 6,706 |
| 2007/3 | 6,003 | 853 | 316 | 89 | 52 | 22 | 20 | 21 | 7,376 |
| 2007/4 | 6,536 | 965 | 592 | 274 | 254 | 128 | 80 | 139 | 8,968 |

Table 22C.—Major sources of U.S. hardwood log imports for 2007 - value

| Year/Qtr | Thousands of dollars, f.a.s. | | | | | | | | |
|----------|------------------------------|-------|--------|--------|-----------|----------|-----------|-------|-------|
| | Canada | China | France | Russia | Singapore | Cameroon | Australia | Other | Total |
| 2007/1 | 3,858 | 359 | 209 | 111 | 74 | 28 | 22 | 30 | 4,691 |
| 2007/2 | 3,040 | 329 | 238 | 128 | 96 | 28 | 24 | 16 | 3,899 |
| 2007/3 | 2,365 | 680 | 335 | 115 | 55 | 25 | 6 | 8 | 3,589 |
| 2007/4 | 2,417 | 520 | 231 | 177 | 142 | 88 | 77 | 145 | 3,797 |

Source: U.S. Department of Commerce, Bureau of the Census, Washington, DC

Table 23A.—Volume and value of U.S. hardwood lumber imports, by region of origin, 2002-2006

| Year | Canada | | Central and South America and Caribbean | | Africa | |
|------|--|---------|---|---------|-----------|---------|
| | Volume | Value | Volume | Value | Volume | Value |
| | <i>Cubic meters and thousands of dollars, f.a.s.</i> | | | | | |
| 2002 | 1,147,448 | 253,321 | 256,616 | 167,643 | 55,027 | 28,446 |
| 2003 | 1,094,917 | 262,671 | 301,537 | 165,943 | 67,849 | 33,100 |
| 2004 | 1,172,176 | 317,777 | 440,022 | 224,519 | 92,982 | 59,307 |
| 2005 | 1,136,254 | 334,685 | 477,901 | 267,322 | 95,495 | 70,524 |
| 2006 | 844,727 | 275,343 | 478,001 | 290,772 | 93,967 | 76,613 |
| Year | Asia and Pacific Ocean | | All other | | Total | |
| | Volume | Value | Volume | Value | Volume | Value |
| | <i>Cubic meters and thousands of dollars, f.a.s.</i> | | | | | |
| 2002 | 110,942 | 83,236 | 58,889 | 21,835 | 1,628,922 | 554,482 |
| 2003 | 122,992 | 89,139 | 94,000 | 31,280 | 1,681,295 | 582,133 |
| 2004 | 173,358 | 125,665 | 103,321 | 39,068 | 1,981,859 | 766,336 |
| 2005 | 239,758 | 157,886 | 144,998 | 59,874 | 2,094,436 | 889,291 |
| 2006 | 225,547 | 164,814 | 158,581 | 59,923 | 1,800,823 | 867,465 |

Source: U.S. Department of Commerce, Bureau of the Census, Washington, DC.

Table 23B.—Major sources of U.S. hardwood lumber imports for 2007 - volume

| Year/Qtr | <i>Cubic meters</i> | | | | | | | | |
|----------|---------------------|--------|---------|---------|----------|---------|--------|--------|---------|
| | Canada | Brazil | Uruguay | Ecuador | Malaysia | Germany | Peru | Other | Total |
| 2007/1 | 114,965 | 31,553 | 29,814 | 19,096 | 15,815 | 12,058 | 9,169 | 69,292 | 301,762 |
| 2007/2 | 140,036 | 36,818 | 19,066 | 18,810 | 18,234 | 15,839 | 10,150 | 76,381 | 335,334 |
| 2007/3 | 132,772 | 34,351 | 18,266 | 17,774 | 17,616 | 17,550 | 11,578 | 73,346 | 326,253 |
| 2007/4 | 94,169 | 31,910 | 17,707 | 15,932 | 14,847 | 10,679 | 9,217 | 71,756 | 266,217 |

Table 23C.—Major sources of U.S. hardwood lumber imports for 2007- value

| Year/Qtr | <i>Thousands of dollars, f.a.s.</i> | | | | | | | | |
|----------|-------------------------------------|--------|----------|--------|---------|----------|---------|--------|---------|
| | Canada | Brazil | Malaysia | Peru | Ecuador | Cameroon | Uruguay | Other | Total |
| 2007/1 | 40,806 | 24,848 | 11,175 | 9,256 | 7,637 | 6,516 | 5,947 | 54,879 | 161,064 |
| 2007/2 | 45,755 | 28,318 | 10,303 | 10,071 | 8,700 | 7,992 | 7,828 | 56,382 | 175,349 |
| 2007/3 | 43,333 | 32,714 | 15,558 | 12,780 | 8,565 | 8,241 | 7,503 | 62,095 | 190,789 |
| 2007/4 | 36,545 | 34,071 | 11,532 | 10,139 | 8,715 | 7,691 | 6,292 | 60,263 | 175,248 |

Source: U.S. Department of Commerce, Bureau of the Census, Washington, DC

Table 24A.—Volume and value of U.S. hardwood veneer imports, by region of origin, 2002-2006

| Year | Canada | | Central and South America and Caribbean | | Africa | |
|------|---|---------|---|--------|--------|--------|
| | Volume | Value | Volume | Value | Volume | Value |
| | <i>Million square meters and thousands of dollars, f.a.s.</i> | | | | | |
| 2002 | 122.9 | 185,638 | 29.2 | 35,459 | 29.3 | 34,668 |
| 2003 | 108.6 | 166,442 | 24.1 | 27,275 | 26.3 | 31,444 |
| 2004 | 130.1 | 197,746 | 19.8 | 21,512 | 26.9 | 31,352 |
| 2005 | 111.2 | 182,888 | 28.7 | 29,016 | 27.0 | 33,475 |
| 2006 | 106.1 | 182,122 | 14.4 | 20,139 | 22.0 | 28,581 |

| Year | Asia and Pacific Ocean | | All other | | Total | |
|------|---|--------|-----------|--------|--------|---------|
| | Volume | Value | Volume | Value | Volume | Value |
| | <i>Million square meters and thousands of dollars, f.a.s.</i> | | | | | |
| 2002 | 10.7 | 14,693 | 23.6 | 62,158 | 215.6 | 332,617 |
| 2003 | 15.6 | 19,783 | 17.4 | 57,601 | 192.0 | 302,545 |
| 2004 | 15.9 | 24,140 | 21.2 | 73,983 | 214.0 | 348,734 |
| 2005 | 18.0 | 28,695 | 21.8 | 78,601 | 207.4 | 352,674 |
| 2006 | 16.1 | 29,844 | 18.8 | 73,882 | 177.5 | 334,568 |

Source: U.S. Department of Commerce, Bureau of the Census, Washington, DC.

Table 24B.—Major sources of U.S. hardwood veneer imports for 2007 - volume

| Year/Qtr | <i>Million square meters</i> | | | | | | | | |
|----------|------------------------------|------------|-----------|-----------|-----------|-----------|-------------|-----------|------------|
| 2007/1 | Canada | Brazil | Ghana | China | Germany | Italy | Ivory Coast | Other | Total |
| | 24,936,124 | 8,936,864 | 4,388,897 | 3,225,318 | 1,438,562 | 884,897 | 865,896 | 3,979,436 | 48,655,994 |
| 2007/2 | Canada | Brazil | China | Ghana | Italy | Germany | Gabon | Other | Total |
| | 26,509,175 | 10,918,785 | 5,312,915 | 3,848,718 | 1,701,244 | 1,286,937 | 1,022,165 | 4,624,385 | 55,224,324 |
| 2007/3 | Canada | Brazil | China | Ghana | Gabon | Germany | Ivory Coast | Other | Total |
| | 17,240,842 | 11,622,089 | 8,409,116 | 3,474,480 | 1,945,797 | 891,479 | 866,641 | 4,415,544 | 48,865,988 |
| 2007/4 | Canada | Brazil | China | Ghana | Congo | Germany | Italy | Other | Total |
| | 19,211,412 | 11,743,515 | 4,300,074 | 2,252,333 | 1,556,169 | 1,374,835 | 1,328,246 | 5,656,150 | 47,422,734 |

Table 24C.—Major sources of U.S. hardwood veneer imports for 2007 - value

| Year/Qtr | <i>Thousands of dollars, f.a.s.</i> | | | | | | | | |
|----------|-------------------------------------|---------|---------|---------|-------|-------|-------------|--------|--------|
| 2007/1 | Canada | Germany | Brazil | Ghana | China | Italy | Ivory Coast | Other | Total |
| | 44,491 | 7,668 | 7,038 | 6,347 | 4,234 | 3,715 | 1,734 | 11,882 | 87,109 |
| 2007/2 | Canada | Brazil | Germany | Italy | China | Ghana | France | Other | Total |
| | 48,602 | 8,678 | 8,323 | 6,296 | 6,275 | 6,114 | 1,625 | 14,023 | 99,936 |
| 2007/3 | Canada | China | Brazil | Germany | Italy | Ghana | Gabon | Other | Total |
| | 36,756 | 9,474 | 8,795 | 5,718 | 4,943 | 4,503 | 2,638 | 13,651 | 86,478 |
| 2007/4 | Canada | Brazil | Germany | China | Italy | Ghana | Congo | Other | Total |
| | 34,125 | 9,276 | 7,668 | 7,267 | 7,250 | 3,544 | 2,086 | 15,773 | 86,989 |

Source: U.S. Department of Commerce, Bureau of the Census, Washington, DC

Table 25A.—Volume and value of U.S. hardwood plywood imports, by region of origin, 2002-2006

| Year | Canada | | Central and South America and Caribbean | | Africa | |
|------|--|---------|---|---------|--------|-------|
| | Volume | Value | Volume | Value | Volume | Value |
| | <i>Cubic meters and thousands of dollars, f.a.s.</i> | | | | | |
| 2002 | 335,439 | 185,117 | 399,742 | 120,096 | 18,433 | 6,024 |
| 2003 | 320,264 | 171,231 | 484,803 | 148,446 | 15,618 | 5,232 |
| 2004 | 299,055 | 180,286 | 540,390 | 203,176 | 10,937 | 4,133 |
| 2005 | 342,613 | 207,205 | 337,856 | 144,783 | 7,025 | 3,681 |
| 2006 | 312,542 | 205,471 | 258,639 | 132,782 | 3,307 | 1,509 |

| Year | Asia | | All other | | Total | |
|------|--|-----------|-----------|---------|-----------|-----------|
| | Volume | Value | Volume | Value | Volume | Value |
| | <i>Cubic meters and thousands of dollars, f.a.s.</i> | | | | | |
| 2002 | 1,409,031 | 527,151 | 542,889 | 199,044 | 2,705,534 | 1,037,432 |
| 2003 | 1,420,062 | 553,187 | 458,979 | 182,137 | 2,699,726 | 1,060,233 |
| 2004 | 2,412,708 | 1,024,525 | 607,072 | 273,109 | 3,870,162 | 1,685,227 |
| 2005 | 2,577,337 | 1,151,292 | 544,020 | 248,075 | 3,808,851 | 1,755,034 |
| 2006 | 3,232,429 | 1,589,475 | 454,996 | 220,421 | 4,261,913 | 2,149,659 |

Source: U.S. Department of Commerce, Bureau of the Census, Washington, DC.

Table 25B.—Major sources of U.S. hardwood plywood imports for 2007 - volume

| Year/Qtr | <i>Cubic meters</i> | | | | | | | | |
|----------|---------------------|---------------|-----------------|-----------------|------------------|------------------|---------------|--------------|--------------|
| 2007/1 | China | Canada | Malaysia | Brazil | Indonesia | Chile | Russia | Other | Total |
| | 441,665 | 162,238 | 107,715 | 105,416 | 70,790 | 70,067 | 48,164 | 94,442 | 1,100,497 |
| 2007/2 | China | Canada | Brazil | Malaysia | Indonesia | Russia | Chile | Other | Total |
| | 528,443 | 177,142 | 126,210 | 81,943 | 76,100 | 68,732 | 64,686 | 124,244 | 1,247,500 |
| 2007/3 | China | Canada | Brazil | Malaysia | Chile | Indonesia | Russia | Other | Total |
| | 618,872 | 161,534 | 161,506 | 120,053 | 72,002 | 67,212 | 65,092 | 116,611 | 1,382,882 |
| 2007/4 | China | Canada | Malaysia | Brazil | Indonesia | Russia | Chile | Other | Total |
| | 455,294 | 140,792 | 116,788 | 92,687 | 76,543 | 57,266 | 54,990 | 127,221 | 1,121,581 |

Table 25C.—Major sources of U.S. hardwood plywood imports for 2007 - value

| Year/Qtr | <i>Thousands of dollars, f.a.s.</i> | | | | | | | | |
|----------|-------------------------------------|---------------|------------------|------------------|------------------|---------------|---------------|--------------|--------------|
| 2007/1 | China | Canada | Malaysia | Indonesia | Brazil | Chile | Russia | Other | Total |
| | 226,844 | 95,392 | 65,286 | 51,619 | 39,511 | 27,072 | 21,392 | 54,274 | 581,390 |
| 2007/2 | China | Canada | Indonesia | Brazil | Malaysia | Russia | Chile | Other | Total |
| | 289,251 | 99,085 | 60,741 | 45,766 | 44,821 | 35,128 | 22,570 | 67,055 | 664,417 |
| 2007/3 | China | Canada | Malaysia | Brazil | Indonesia | Russia | Chile | Other | Total |
| | 334,483 | 93,270 | 57,157 | 55,973 | 54,096 | 39,999 | 27,656 | 63,128 | 725,762 |
| 2007/4 | China | Canada | Malaysia | Indonesia | Russia | Brazil | Chile | Other | Total |
| | 255,985 | 82,216 | 55,838 | 53,010 | 39,818 | 34,798 | 22,666 | 65,033 | 609,364 |

Source: U.S. Department of Commerce, Bureau of the Census, Washington, DC

Table 26A.—Furniture and cabinets – Imports to U.S. 1994 – 2007

| Year | Upholstered wood household | Nonupholstered wood household | Institutional and office | Rattan, cane, and bamboo | Wood kitchen cabinets |
|---|----------------------------|-------------------------------|--------------------------|--------------------------|-----------------------|
| <i>Customs value-thousands of dollars</i> | | | | | |
| 1994 | 397,302 | 2,566,837 | 394,859 | 200,702 | 128,097 |
| 1995 | 462,221 | 2,826,764 | 387,135 | 219,590 | 167,808 |
| 1996 | 556,242 | 3,147,215 | 439,094 | 221,975 | 221,012 |
| 1997 | 687,691 | 3,615,871 | 537,320 | 243,903 | 277,696 |
| 1998 | 790,970 | 4,301,242 | 655,492 | 272,228 | 322,185 |
| 1999 | 986,019 | 5,303,127 | 740,076 | 321,392 | 394,609 |
| 2000 | 1,287,758 | 6,292,640 | 903,215 | 391,369 | 474,043 |
| 2001 | 1,299,590 | 6,354,806 | 783,482 | 361,505 | 526,367 |
| 2002 | 1,626,068 | 7,605,115 | 869,035 | 381,640 | 579,020 |
| 2003 | 2,062,775 | 8,349,321 | 992,363 | 377,260 | 644,306 |
| 2004 | 2,454,719 | 9,485,586 | 1,099,466 | 421,848 | 754,342 |
| 2005 | 2,845,303 | 10,491,245 | 1,224,288 | 469,816 | 795,611 |
| 2006 | 3,167,871 | 10,872,119 | 1,357,745 | 456,396 | 849,589 |
| 2007 | 3,262,075 | 10,637,706 | 1,052,177 | 172,070 | 826,999 |

Table 26B.—Nonupholstered household wood furniture – Imports to U.S. 1994 – 2007

| Year | Largest source | 2 nd Largest source | 3 rd Largest source | 4 th Largest source | 5 th Largest source | Others | Total |
|---|----------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-----------|------------|
| <i>Customs value-thousands of dollars</i> | | | | | | | |
| 1994 | TAIWAN 527,846 | CANADA 422,785 | MALAYSIA 254,376 | CHINA 241,516 | ITALY 180,021 | 940,294 | 2,566,838 |
| 1995 | CANADA 523,203 | TAIWAN 444,754 | CHINA 323,274 | MALAYSIA 270,319 | ITALY 218,029 | 1,047,186 | 2,826,765 |
| 1996 | CANADA 638,227 | CHINA 422,933 | TAIWAN 401,814 | MALAYSIA 329,931 | MEXICO 242,469 | 1,111,841 | 3,147,215 |
| 1997 | CANADA 775,364 | CHINA 572,240 | TAIWAN 378,948 | MALAYSIA 336,324 | MEXICO 292,990 | 1,260,005 | 3,615,871 |
| 1998 | CANADA 947,465 | CHINA 794,004 | TAIWAN 381,677 | MEXICO 353,747 | MALAYSIA 340,450 | 1,483,900 | 4,301,243 |
| 1999 | CANADA 1,182,878 | CHINA 1,141,026 | TAIWAN 402,675 | MALAYSIA 396,404 | ITALY 392,616 | 1,787,528 | 5,303,127 |
| 2000 | CHINA 1,650,728 | CANADA 1,368,514 | ITALY 460,384 | MALAYSIA 399,483 | MEXICO 392,802 | 2,020,730 | 6,292,641 |
| 2001 | CHINA 1,897,621 | CANADA 1,306,722 | ITALY 453,645 | INDONESIA 376,684 | MEXICO 372,243 | 1,947,892 | 6,354,807 |
| 2002 | CHINA 2,893,587 | CANADA 1,267,731 | ITALY 484,271 | MALAYSIA 414,527 | INDONESIA 414,180 | 2,130,820 | 7,605,116 |
| 2003 | CHINA 3,592,488 | CANADA 1,240,398 | ITALY 479,249 | MALAYSIA 442,595 | INDONESIA 405,103 | 2,189,488 | 8,349,321 |
| 2004 | CHINA 4,179,478 | CANADA 1,276,796 | MALAYSIA 521,315 | ITALY 451,335 | INDONESIA 422,808 | 2,633,854 | 9,485,586 |
| 2005 | CHINA 4,759,170 | CANADA 1,288,187 | MALAYSIA 617,446 | VIETNAM 612,066 | INDONESIA 480,067 | 2,734,309 | 10,491,245 |
| 2006 | CHINA 5,155,764 | CANADA 1,286,563 | VIETNAM 779,400 | MALAYSIA 684,978 | INDONESIA 494,590 | 2,470,825 | 10,872,120 |
| 2007 | CHINA 4,916,220 | CANADA 1,166,412 | VIETNAM 1,055,201 | MALAYSIA 670,011 | INDONESIA 492,427 | 2,337,435 | 10,637,706 |

Source: U.S. Department of Commerce and the U.S. International Trade Commission.

Table 27A.—Volume and value of U.S. exports of nonconiferous chips, by destination region, 2002-2006

| Year | Western Europe | | Canada | | Japan | | Mexico | |
|------|--|-------|---------|--------|---------|--------|--------|-------|
| | Volume | Value | Volume | Value | Volume | Value | Volume | Value |
| | <i>Tons and thousands of dollars, f.a.s.</i> | | | | | | | |
| 2002 | 73,345 | 9,285 | 391,240 | 11,789 | 67,319 | 45,042 | 279 | 22 |
| 2003 | 31,961 | 7,605 | 401,788 | 13,713 | 102,116 | 9,225 | 74 | 21 |
| 2004 | 40,676 | 1,380 | 332,529 | 17,873 | 212,719 | 13,490 | 0 | 0 |
| 2005 | 6,265 | 855 | 252,233 | 16,351 | 106,758 | 9,487 | 714 | 57 |
| 2006 | 21,134 | 1,173 | 394,708 | 24,699 | 117,585 | 12,273 | 125 | 5 |

| Year | Taiwan | | Korea | | Other Areas | | Total | |
|------|--|-------|---------|--------|-------------|-------|-----------|--------|
| | Volume | Value | Volume | Value | Volume | Value | Volume | Value |
| | <i>Tons and thousands of dollars, f.a.s.</i> | | | | | | | |
| 2002 | 4,190 | 1,743 | 73,018 | 5,707 | 6,709 | 2,535 | 1,116,100 | 76,123 |
| 2003 | 8,213 | 3,593 | 76,040 | 7,495 | 13,800 | 3,790 | 633,992 | 45,442 |
| 2004 | 79 | 29 | 92,642 | 8,548 | 14,116 | 3,454 | 692,761 | 44,772 |
| 2005 | 128 | 62 | 126,653 | 10,353 | 61,213 | 6,233 | 553,964 | 43,397 |
| 2006 | 150 | 47 | 93,506 | 9,945 | 37,447 | 2,146 | 723,236 | 50,298 |

Source: U.S. Department of Commerce, Bureau of the Census, Washington, D.C.

Table 27B.—Major destinations for U.S. nonconiferous chip exports for 2007 - volume

| Year/Qtr | Tons | | | | | | | | |
|----------|---------|--------|--------|--------|-----------|---------|-----------|-------|---------|
| | Canada | Korea | China | Chile | Australia | Bahamas | Argentina | Other | Total |
| 2007/1 | 133,035 | 26,696 | 14,738 | 12,758 | 6,171 | 4,718 | 2,019 | 6,212 | 206,347 |
| 2007/2 | 101,829 | 49,827 | 9,789 | 6,528 | 5,818 | 4,654 | 2,418 | 5,884 | 186,747 |
| 2007/3 | 109,896 | 75,882 | 9,306 | 7,323 | 4,737 | 2,567 | 2,056 | 6,840 | 218,607 |
| 2007/4 | 119,059 | 48,143 | 16,761 | 5,405 | 2,459 | 2,345 | 1,812 | 6,878 | 202,862 |

Table 27C.—Major destinations for U.S. nonconiferous chip exports for 2007 - value

| Year/Qtr | Thousands of dollars, f.a.s. | | | | | | | | |
|----------|------------------------------|-------|-------|-------|-----------|---------|-----------|-------|--------|
| | Canada | Korea | China | Chile | Australia | Bahamas | Argentina | Other | Total |
| 2007/1 | 8,244 | 2,645 | 1,055 | 926 | 243 | 196 | 79 | 288 | 13,676 |
| 2007/2 | 5,765 | 5,000 | 1,004 | 664 | 229 | 183 | 95 | 277 | 13,217 |
| 2007/3 | 6,862 | 5,651 | 699 | 294 | 186 | 101 | 83 | 337 | 14,213 |
| 2007/4 | 7,797 | 3,129 | 1,253 | 218 | 100 | 97 | 71 | 128 | 12,793 |

Source: U.S. Department of Commerce, Bureau of the Census, Washington, DC

Definition of Terms

c.i.f. (Cost, Insurance, Freight) - The term is used for shipment to designated overseas port of import. The seller quotes a price for the goods, including insurance, all transportation, and miscellaneous charges to the point of debarkation from vessel or aircraft.

f.a.s. (Free Alongside a Ship at designated U.S. port of export) - The seller quotes a price that includes charges for delivery of the goods alongside a vessel at the port. The seller handles the cost of unloading and wharfage. Loading, ocean transportation, and insurance are the buyer's responsibility.

Useful Conversion Factors

1 Mbf (lumber) = 2.36 cubic meters
1 Mbf* (logs - FAO) = 4.53 cubic meters
1 Mbf** (logs - Doyle scale) = 4.59 cubic meters
1 Mbf** (logs - International 1/4" rule) = 3.48 cubic meters
1 Mbf** (logs - Scribner) = 3.90 cubic meters
1 cubic meter = 35.32 cubic feet
1 ton = 2000 pounds
1 metric ton = 2204.623 pounds

* Factor used by the Food and Agricultural Organization of the United Nations.

** Approximation based on 16-foot log with a 15-inch diameter at the top end inside bark. Actual conversion will depend on the distribution of logs under consideration.

Helpful Internet links used in this publication and available for public reference.

International Trade Administration, Office of Consumer Goods, Household Furniture Imports and Exports:
<http://www.ita.doc.gov/td/ocg/furniture.htm>

International Trade Administration, Trade Stats Express: <http://tse.export.gov/>

U.S. Department of Agriculture, Foreign Agricultural Service, Current World Production, Market and Trade Reports: <http://www.fas.usda.gov/currwmt.asp>

U.S. Department of Agriculture, Foreign Agricultural Service, U.S. Trade:
<http://www.fas.usda.gov/ustrade/USTImFAS.asp?QI>

U.S. Department of Agriculture, Forest Service, Southern Research Station, Timber Prices on the Web:
<http://www.srs.fs.usda.gov/econ/data/prices/>

U.S. Department of Commerce, Bureau of the Census, Business and Industry Economic Statistics:
<http://www.census.gov/econ/www/index.html>

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Luppold, William G. 1995. **Causes and remedies for errors in international forest products trade data: examples from the hardwood trade statistics.** Forest Science. 41(2):278-283.

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