



United States  
Department of  
Agriculture

# Bulletin of Hardwood Market Statistics: 2002

Forest Service

**Northeastern  
Research Station**

Research Note NE-381



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## Abstract

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

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## 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 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. For additional information on the international trade series presented here, please contact Bruce Hansen at 304-431-2739.

Readers interested in price data for specific subregions 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 additional data series to include or different breakdowns of the data currently reported. Copies of this bulletin are free on request. Send your comments and requests to David M. Emanuel at the address below.

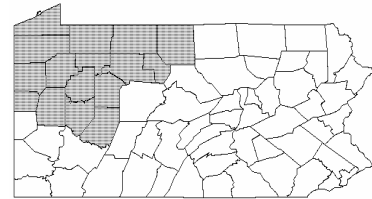
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## HARDWOOD STUMPAGE, LOG, AND LUMBER PRICES

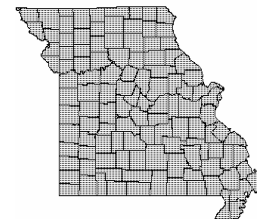


**Table 1.--Average hardwood stumpage prices in northwestern Pennsylvania, 1997-2002**  
(Dollars/Mbf, International 1/4" scale)

Year/quarter	Red oak	White oak	Black cherry	Hard maple	Soft maple	Yellow-poplar
1997	514	227	978	297	163	131
1998	520	216	1,103	303	175	116
1999	504	217	1,347	313	182	133
2000	578	248	1,583	393	206	157
2001/1	498	216	1,353	380	197	148
2001/2	489	209	1,297	359	214	150
2001/3	445	142	1,350	372	148	106
2001/4	467	160	1,572	359	175	108
2001 avg.	475	182	1,393	367	183	128
2002/1	439	135	1,374	345	192	111
2002/2	536	175	1,474	362	166	128
2002/3	527	181	1,312	397	190	136
2002/4	460	137	1,336	399	162	102
2002 avg.	490	157	1,374	376	177	119

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

**Table 2.--Average hardwood stumpage prices in Missouri, statewide, 1997-2002**  
(Dollars/Mbf, International 1/4" scale)



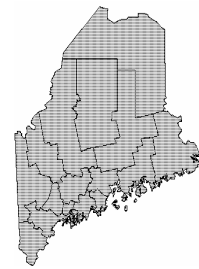
Year/quarter	Red oak	White oak	Ash	Hard maple	Soft maple	Mixed hardwoods
1997	165	146	NA	NA	NA	86
1998	190	175	NA	NA	NA	136
1999	171	220	130	NA	201	147
2000	194	185	NA	NA	NA	130
2001/1	195	200	115	130	220	135
2001/2	170	185	120	120	225	115
2001/3	180	150	70	160	150	150
2001/4	150	170	70	NA	235	145
2001 avg.	174	176	94	NA	207	136
2002/1	185	160	80	100	170	55
2002/2	180	150	NA	NA	NA	135
2002/3	185	155	50	NA	125	115
2002/4	190	170	140	200	245	155
2002 avg.	185	159	NA	NA	NA	115

NA = Not available.

Source: Missouri Department of Conservation, Forestry Division.

**Table 3.--Average hardwood stumpage prices in Maine, statewide, 1996-2001**

(Dollars/Mbf, International 1/4" scale)

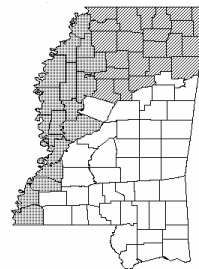


Year	Red Oak	Yellow birch	White ash	Hard maple	Soft maple
1996	275	109	130	136	63
1997	254	113	126	159	77
1998	246	120	123	157	83
1999	224	119	129	157	85
2000	245	122	127	187	80
2001	218	129	118	198	77

Source: Maine Forest Service, Management and Utilization Division.

**Table 4.--Average hardwood stumpage prices in the northern and delta and river regions of Mississippi, 1997-2002**

(Dollars/Mbf, Doyle scale)



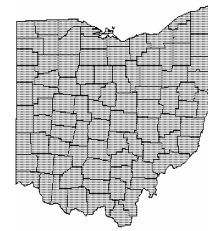
Year	North		Delta and River	
	Oak	Mixed hardwoods	Oak	Mixed hardwoods
1997	246	178	NA	139
1998	301	191	368	154
1999	296	183	369	159
2000	285	169	348	168
2001				
Jan-Feb	275	158	345	152
Mar-Apr	289	142	353	145
May-Jun	346	152	345	116
Jul-Aug	310	176	338	120
Sep-Oct	280	175	359	135
Nov-Dec	334	178	345	139
2001 avg.	306	164	347	134
2002				
Jan-Feb	333	165	398	150
Mar-Apr	NA	NA	NA	NA
May-Jun	290	152	362	155
Jul-Aug	285	140	345	150
Sep-Oct	300	160	359	109
Nov-Dec	319	181	345	141
2002 avg.	NA	NA	NA	NA

NA = Not available.

Source: Mississippi State University, Extension Service.

**Table 5.--Average hardwood stumpage prices in Ohio, statewide, 1996-2001**

(Dollars/Mbf, Doyle scale)



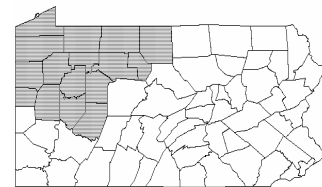
Year/season	White oak	Red oak	Cherry	Yellow-poplar
1996/spring	310	350	425	170
1996/fall	395	420	585	190
1997/spring	295	335	430	180
1997/fall	320	365	485	180
1998/spring	305	335	470	195
1998/fall	340	485	690	210
1999/spring	340	435	665	205
1999/fall	330	440	640	225
2000/spring	370	430	690	235
2000/fall	345	445	815	225
2001/spring	325	445	690	170
2001/fall	NA	NA	NA	NA

NA = Not available.

Source: Ohio Agricultural Statistics Service, Columbus.

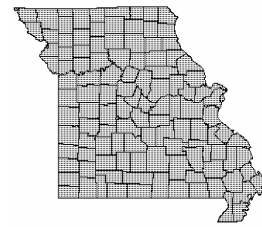
**Table 6.--Average hardwood mill prices of grade 1 logs in northwestern Pennsylvania, 1997-2002**

(Dollars/Mbf, International 1/4" scale)



Year/quarter	Red oak	White oak	Black cherry	Hard maple	Soft maple	Yellow-poplar
1997	516	359	702	412	257	178
1998	597	320	966	458	313	198
1999	509	289	923	422	256	162
2000	560	318	1,152	543	286	207
2001/1	476	257	1,087	506	243	162
2001/2	467	226	966	549	253	166
2001/3	533	315	1,203	540	299	206
2001/4	472	239	885	496	260	156
2001 avg.	487	259	1,035	523	264	172
2002/1	407	253	832	378	204	103
2002/2	496	280	1,068	510	289	150
2002/3	543	291	1,134	575	317	216
2002/4	511	270	1,062	497	272	182
2002 avg.	489	273	1,024	490	270	163

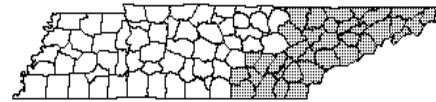
Source: The Pennsylvania State University, School of Forest Resources, Cooperative Extension.



**Table 7.--Average hardwood mill prices of grade 1 logs  
in Missouri, statewide, 1997-2002**  
(Dollars/Mbf, International 1/4" scale)

Year/quarter	Red oak	White oak	Cherry	Ash	Soft maple	Black walnut
1997	445	424	519	376	398	611
1998	401	350	419	316	340	440
1999	422	394	634	366	435	471
2000	409	316	501	283	360	415
2001/1	415	335	460	335	435	360
2001/2	460	385	1,000	320	365	515
2001/3	440	345	665	285	435	705
2001/4	515	395	850	270	280	485
2001 avg.	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

Source: Missouri Department of Conservation, Forestry Division.

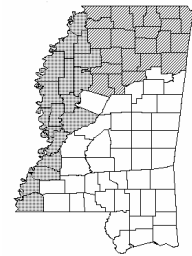


**Table 8.--Average hardwood mill prices of grade 1 logs  
in eastern Tennessee, 1997-2002**  
(Dollars/Mbf, Doyle scale)

Year/quarter	Red oak	White oak	Walnut	Ash	Hard maple	Yellow-poplar
1997	713	663	500	550	400	350
1998	732	669	500	550	419	362
1999	725	619	500	487	437	356
2000	875	675	500	550	550	447
2001/1	875	675	500	550	550	450
2001/2	875	675	500	550	550	450
2001/3	787	522	675	431	462	315
2001/4	850	585	675	431	462	340
2001 avg.	847	614	587	490	506	389
2002/1	850	585	675	431	462	340
2002/2	812	560	700	400	425	350
2002/3	775	522	650	400	425	327
2002/4	800	548	650	400	425	309
2002 avg.	809	554	669	408	434	331

Source: Tennessee Division of Forestry, Utilization Section.

**Table 9.--Average hardwood mill prices in the northern and delta and river regions of Mississippi, 1997-2002**  
(Dollars/Mbf, Doyle scale)

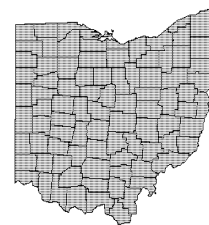


Year	North		Delta and River	
	Oak	Mixed hardwoods	Oak	Mixed hardwoods
1997	326	233	403	227
1998	380	262	430	239
1999	374	249	434	241
2000	364	259	429	255
2001				
Jan-Feb	357	270	425	255
Mar-Apr	365	250	433	230
May-Jun	380	245	437	222
Jul-Aug	375	255	425	229
Sep-Oct	380	265	430	230
Nov-Dec	382	250	422	235
2001 avg.	373	256	429	233
2002				
Jan-Feb	377	270	425	252
Mar-Apr	NA	NA	NA	NA
May-Jun	377	260	435	262
Jul-Aug	370	252	430	250
Sep-Oct	353	255	440	230
Nov-Dec	380	256	445	242
2002 avg.	NA	NA	NA	NA

NA = Not available.

Source: Mississippi State University, Extension Service.

**Table 10.--Average hardwood mill prices of red oak logs in Ohio, statewide, 1996-2001**  
(Dollars/Mbf, Doyle scale)



Year/season	Average all grades	Grade 1 16 inches	Grade 1	Grade 2	Grade 3
1996/spring	425	690	460	255	135
1996/fall	520	855	540	295	140
1997/spring	470	795	515	305	145
1997/fall	440	745	430	245	145
1998/spring	470	740	420	275	165
1998/fall	500	800	515	315	160
1999/spring	460	805	540	275	145
1999/fall	510	855	615	305	155
2000/spring	465	860	455	285	130
2000/fall	540	960	580	335	160
2001/spring	560	825	595	385	165
2001/fall	NA	NA	NA	NA	NA

NA = Not available.

Source: Ohio Agricultural Statistics Service, Columbus.

**Table 11.--Green hardwood lumber prices, 1997-2002**  
(Dollars/Mbf)

Year/quarter	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
1997	733	424	878	808	590
1998	775	405	1,043	860	610
1999	776	387	1,135	872	569
2000	780	458	1,125	983	633
2001/1	770	430	1,100	990	640
2001/2	730	390	1,075	990	630
2001/3	720	380	1,060	990	600
2001/4	720	380	1,060	1,005	600
2001 avg.	735	395	1,074	994	618
2002/1	710	380	1,060	1,005	585
2002/2	710	395	1,115	1,005	575
2002/3	710	405	1,170	1,005	575
2002/4	740	405	1,185	1,005	595
2002 avg.	717	396	1,132	1,005	582

Source: Hardwood Market Report, Memphis, TN.

**Table 12.--Kiln-dried hardwood lumber prices, 1997-2002**  
(Dollars/Mbf)

Year/quarter	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
1997	1,063	587	1,131	1,123	792
1998	1,061	541	1,394	1,136	798
1999	1,066	514	1,610	1,199	762
2000	1,064	600	1,637	1,435	851
2001/1	950-1,085	540-600	1,385-1,535	1,330-1,450	780-860
2001/2	910-1,065	505-565	1,350-1,500	1,240-1,360	730-810
2001/3	910-1,065	460-520	1,325-1,485	1,220-1,340	780-860
2001/4	875-1,035	470-530	1,270-1,430	1,190-1,310	785-865
2001 avg.	999	535	1,432	1,324	816
2002/1	865-1,035	490-550	1,305-1,465	1,180-1,300	765-845
2002/2	895-1,080	510-580	1,355-1,515	1,170-1,290	760-840
2002/3	920-1,095	530-600	1,400-1,560	1,120-1,240	755-835
2002/4	925-1,100	535-605	1,445-1,605	1,160-1,280	765-845
2002 avg.	979	539	1,429	1,225	807

Source: Weekly Hardwood Review, Charlotte, NC.



## HARDWOOD PRODUCT PRICES, PRODUCTION, AND EMPLOYMENT

**Table 13.--Producer Price Indexes for selected wood industries, 1997-2002**  
(1982=100)

Year/ Quarter	Hardwood Lumber	Hardwood dimension	Wood kitchen cabinets	Wood household furniture	Upholstered wood household furniture	Wood office furniture	All commodities
1997	174.1	178.5	153.9	160.7	141.7	160.6	127.6
1998	178.7	180.9	156.9	164.0	143.5	164.2	124.4
1999	177.3	183.0	159.7	167.5	145.2	167.3	125.5
2000	185.9	188.8	164.2	170.4	147.6	171.1	132.7
2001/1	185.5	190.8	166.5	172.5	148.2	173.2	137.8
2001/2	182.0	190.3	167.0	173.7	149.4	173.9	136.2
2001/3	179.4	189.7	167.5	173.4	150.0	174.4	133.4
2001/4	178.1	189.2	167.7	174.3	150.0	174.8	129.4
2001 avg.	181.3	190.0	167.2	173.5	149.4	174.1	134.2
2002/1	177.1	188.2	168.3	175.4	150.6	174.9	128.9
2002/2	177.2	188.2	169.5	177.1	150.8	174.4	130.8
2002/3	178.4	188.6	170.1	177.9	151.1	174.9	131.7
2002/4	180.3	189.2	171.0	178.3	151.7	176.2	133.1
2002 avg.	178.3	188.5	169.7	177.2	151.1	175.1	131.1

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

**Table 14.--Value of nonupholstered wood household furniture shipments and nonupholstered wood household furniture imports<sup>1</sup>**

(Millions of dollars)

Year	Value of Nonupholstered wood household furniture shipments (actual \$) <sup>2</sup>	Value of Nonupholstered wood household furniture shipments (1982 \$) <sup>3</sup>	Value of nonupholstered wood household furniture imports (actual \$, c.i.f.) <sup>4</sup>	Value of nonupholstered wood household furniture imports (1982 \$, c.i.f.) <sup>3</sup>	Ratio of imports to shipments <sup>5</sup>
1997	10,300.0	6,409	4,354.7	2,710	.42
1998	11,074.1	6,753	5,193.9	3,167	.47
1999	11,942.3	7,130	6,525.8	3,896	.55
2000	11,397.9	6,689	7,822.1	4,590	.69
2001	10,184.2	5,870	7,818.2	4,506	.77
2002	NA	NA	9,289.7	5,242	NA

<sup>1</sup> Table revised to conform with North American Industry Classification System (NAICS).

<sup>2</sup> Source: U.S. Department of Commerce.

<sup>3</sup> Deflated by wood household furniture price index listed in Table 13.

<sup>4</sup> Source: U.S. Department of Commerce, Bureau of the Census.

<sup>5</sup> Developed from columns 1 and 3.

NA = Not available.

**Table 15.--Production of oak strip flooring, 1997-2002**  
(Thousands of feet)

Year	Oak strip flooring
1997	416,618
1998	448,971
1999	536,073
2000	562,885
2001	579,557
2002	627,503

Source: National Oak Flooring Manufacturers Association.

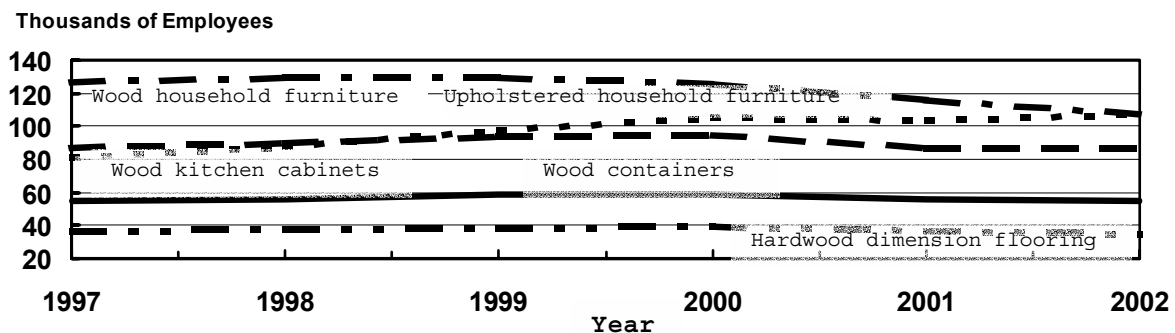
**Table 16.--Employment in selected wood-using industries, 1997-2002**  
(Thousands of employees)

Year/quarter	Wood containers (SIC 244)	Upholstered household furniture (SIC 2512)	Wood household furniture (SIC 2511)	Wood kitchen cabinets (SIC 2434)	Hardwood dimension and flooring (SIC 2426)
1997	54.5	86.6	126.7	81.4	36.1
1998	55.8	89.8	129.6	87.6	37.3
1999	58.5	93.7	129.6	97.0	38.0
2000	58.4	94.3	125.9	105.0	39.4
2001/1	57.0	90.9	121.3r	103.1	37.4
2001/2	57.1	88.0	117.7r	102.6r	35.9
2001/3	55.8	84.4	112.7r	104.2r	35.7
2001/4	55.0	83.9	110.1r	104.6r	35.6
2001 avg.	56.2	86.8	115.5r	103.6r	36.2
2002/1	53.5	85.5	108.4	104.1	34.7
2002/2	55.0	86.8	109.2r	106.8r	35.3
2002/3	56.0	86.6	107.1	108.8	34.8
2002/4	55.7	86.5	104.9	109.1	34.2
2002 avg.	55.1	86.3	107.4	107.2	34.8

r = revised.

SIC = Standard Industrial Classification.

Source: U.S. Department of Labor.



Employment in selected wood-using industries, 1997-2002.

## INTERNATIONAL HARDWOOD PRODUCT TRADE

**Table 17.--International exchange rate, foreign currency per U.S. dollar, 1997-2002**

Year/ quarter	Belgium <sup>1</sup> (franc)	Brazil (real)	Canada (dollar)	China (yuan)	France <sup>1</sup> (franc)	Germany <sup>1</sup> (mark)	Hong Kong (H.K. \$)	Italy <sup>1</sup> (lira)
1997	35.789	1.0779	1.3849	8.3193	5.8361	1.7339	7.7430	1,703.0
1998	36.301	1.1604	1.4836	8.3006	5.8979	1.7593	7.7466	1,736.4
1999.	37.867	1.8192	1.4858	8.2781	6.1574	1.8359	7.7593	1,817.6
2000	43.808	1.8310	1.4855	8.2784	7.1236	2.1240	7.7924	2,102.8
2001/1	43.750	2.0192	1.5278	8.2774	7.1147	2.1213	7.7999	2,100.1
2001/2	46.193	2.2883	1.5411	8.2770	7.5113	2.2396	7.7996	2,217.2
2001/3	45.280	2.5540	1.5462	8.2769	7.3628	2.1954	7.7998	2,173.4
2001/4	45.080	2.5508	1.5809	8.2766	7.3310	2.1858	7.7995	2,164.0
2001 avg.	45.076	2.3531	1.5490	8.2770	7.3299	2.1855	7.7997	2,163.7
2002/1	1.1405	2.3830	1.5946	8.2770	1.1405	1.1405	7.7994	1.1405
2002/2	1.0884	2.5041	1.5545	8.2770	1.0884	1.0884	7.7998	1.0884
2002/3	1.0162	3.1348	1.5637	8.2765	1.0162	1.0162	7.8002	1.0162
2002/4	1.0000	3.6719	1.5696	8.2774	1.0000	1.0000	7.7992	1.0000
2002 avg.	1.0612	2.9235	1.5706	8.2770	1.0612	1.0612	7.7997	1.0612

Year/ quarter	Japan (yen)	Malaysia (ringgit)	Mexico (peso)	Singapore (S. dollar)	South Africa (rand)	South Korea (won)	Spain <sup>1</sup> (peseta)	U.K. (pound)
1997	121.09	2.8178	7.92	1.4857	4.6081	953.15	146.45	0.611
1998	130.82	3.9248	9.15	1.6721	5.5315	1,404.20	149.37	0.604
1999	113.72	3.8000	9.56	1.6947	6.1175	1,189.83	156.18	0.618
2000	107.82	3.8000	9.46	1.7249	6.9470	1,131.38	180.69	0.661
2001/1	118.14	3.8000	9.69	1.7516	7.8327	1,272.30	180.47	0.686
2001/2	122.63	3.8000	9.19	1.8143	8.0389	1,307.24	190.53	0.704
2001/3	121.49	3.8000	9.24	1.7780	8.3988	1,294.91	186.76	0.695
2001/4	123.82	3.8000	9.24	1.8263	10.2318	1,292.25	185.95	0.693
2001 avg.	121.52	3.8000	9.34	1.7926	8.6255	1,291.67	185.93	0.695
2002/1	132.46	3.8001	9.11	1.8334	11.5348	1,319.93	1.1405	0.701
2002/2	126.81	3.8000	9.48	1.8040	10.4763	1,266.66	1.0884	0.684
2002/3	119.32	3.8000	9.90	1.7586	10.4292	1,196.37	1.0162	0.645
2002/4	122.47	3.8000	10.17	1.7676	9.6349	1,219.00	1.0000	0.636
2002 avg.	125.27	3.8000	9.66	1.7909	10.5188	1,250.49	1.0612	0.667

<sup>1</sup> Converted to Euro in 2002.

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

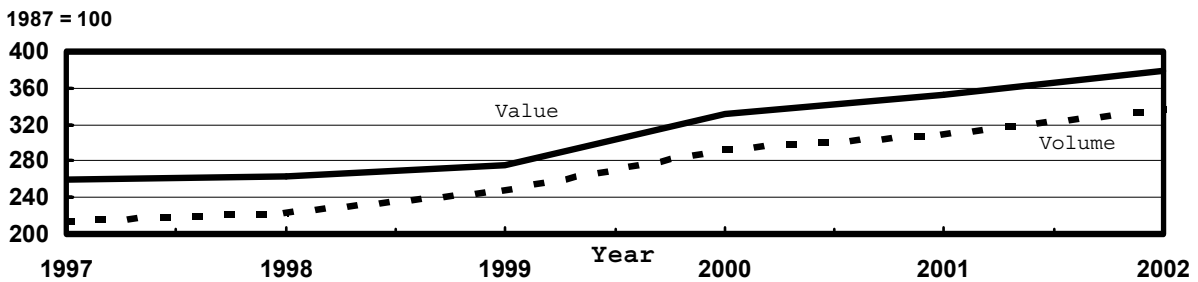
**Table 18.--Volume and value of U.S. hardwood log exports, by region, 1997-2002**  
(Cubic meters and thousands of dollars, f.a.s.)

Year/quarter	Canada		Central and South America and Caribbean		Western Europe	
	Volume	Value	Volume	Value	Volume	Value
1997	973,348	119,098	19,108	7,803	181,380	74,850
1998	1,082,888	136,527	17,286	7,587	198,647	87,903
1999	1,236,647	146,884	21,907	8,027	190,690	86,617
2000	1,414,829	173,648	11,922	4,385	272,605	109,201
2001/1	477,788	55,435	2,324	974	108,557	40,394
2001/2	317,451	37,417	3,295	1,358	73,670	29,309
2001/3	364,374	39,505	2,909	1,163	21,257	9,585
2001/4	340,366	36,285	1,861	780	63,314	28,383
Total 2001	1,499,979	168,641	10,389	4,275	266,798	107,671
2002/1	428,857	46,765	2,065	982	77,064	35,271
2002/2	345,159	38,887	3,142	1,632	70,741	26,272
2002/3	435,956	46,141	5,591	2,594	30,802	14,564
2002/4	399,443	42,083	2,986	1,350	46,405	21,392
Total 2002	1,609,415	173,877	13,784	6,558	225,012	97,499

Year/quarter	Asia		All other		Total	
	Volume	Value	Volume	Value	Volume	Value
1997	271,016	103,944	2,741	565	1,447,593	306,260
1998	198,787	79,644	1,473	442	1,499,081	312,104
1999	221,235	83,264	2,788	1,545	1,673,267	326,338
2000	274,770	103,210	4,338	2,482	1,978,464	392,927
2001/1	93,312	41,468	1,517	530	683,498	138,800
2001/2	81,987	38,293	2,344	1,298	478,747	107,674
2001/3	41,049	16,854	531	209	430,120	67,317
2001/4	91,162	38,189	1,585	565	498,288	104,201
Total 2001	307,510	134,803	5,977	2,602	2,090,653	417,992
2002/1	114,348	48,433	2,769	972	625,103	132,424
2002/2	127,520	52,103	2,889	1,041	549,451	119,935
2002/3	85,043	32,456	2,487	813	559,879	96,569
2002/4	84,243	34,044	2,658	987	535,735	99,856
Total 2002	411,154	167,037	10,803	3,813	2,270,168	448,785

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



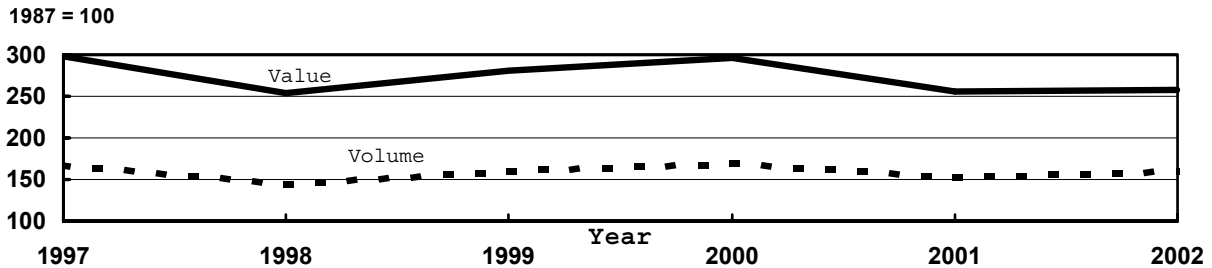
Volume and value index of all U.S. hardwood log exports, 1997 - 2002.

**Table 19.--Volume and value of U.S. hardwood lumber exports, by region, 1997-2002**  
(Cubic meters and thousands of dollars, f.a.s.)

Year/quarter	Canada		Central and South America and Caribbean		Western Europe	
	Volume	Value	Volume	Value	Volume	Value
1997	902,051	331,544	178,757	71,538	918,843	566,264
1998	811,902	301,438	207,545	85,194	836,528	520,776
1999	950,589	347,841	237,028	100,651	801,002	507,768
2000	1,025,912	396,920	252,449	95,557	837,548	528,130
2001/1	259,994	99,330	53,782	19,591	197,966	125,110
2001/2	228,125	84,997	47,692	18,313	200,599	122,556
2001/3	209,392	76,634	45,999	18,056	162,919	96,625
2001/4	208,784	77,399	46,556	18,091	172,974	102,538
Total 2001	906,295	338,360	194,029	74,051	734,458	446,828
2002/1	256,757	93,895	38,733	13,572	185,586	107,845
2002/2	237,986	88,713	42,812	15,939	183,043	108,348
2002/3	227,629	85,424	44,977	17,738	155,133	94,895
2002/4	243,942	90,849	49,376	18,205	147,293	90,687
Total 2002	966,314	358,881	175,898	65,455	671,055	401,775

Year/quarter	Asia		All other		Total	
	Volume	Value	Volume	Value	Volume	Value
1997	788,020	408,338	75,266	43,287	2,862,937	1,420,971
1998	555,887	267,596	54,276	31,876	2,466,138	1,206,880
1999	703,086	347,333	50,855	30,837	2,742,560	1,334,432
2000	725,765	356,099	57,109	31,829	2,898,783	1,408,535
2001/1	167,883	78,767	7,094	4,399	686,719	327,196
2001/2	186,353	86,158	9,033	6,330	671,802	318,354
2001/3	180,325	79,202	8,877	5,241	607,512	275,757
2001/4	208,672	89,955	7,621	4,622	644,607	292,606
Total 2001	743,233	334,082	32,625	20,592	2,610,640	1,213,913
2002/1	211,412	89,022	7,821	4,803	700,309	309,137
2002/2	252,080	107,222	8,429	5,434	724,350	325,656
2002/3	227,058	97,895	10,274	6,570	665,071	302,522
2002/4	186,644	82,201	7,235	4,934	634,490	286,876
Total 2002	877,194	376,340	33,759	21,741	2,724,220	1,224,192

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



Volume and value index of all U.S. hardwood lumber exports, 1997 - 2002.

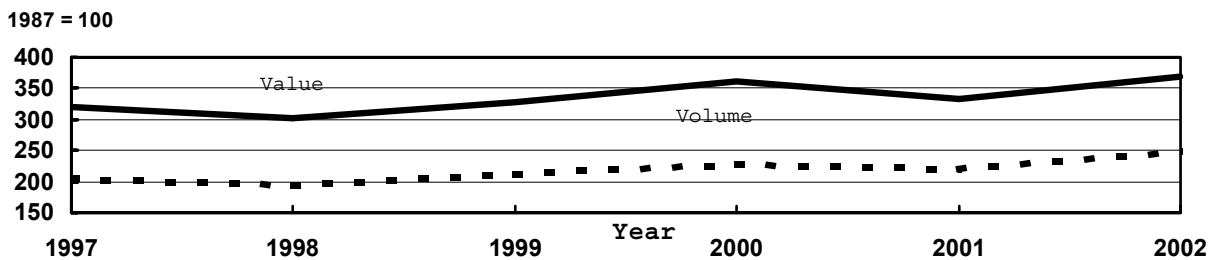
**Table 20.--Volume and value of U.S. hardwood veneer exports, by region, 1997-2002**  
(Million square meters and thousands of dollars, f.a.s.)

Year/quarter	Canada		Central and South America and Caribbean		Western Europe	
	Volume	Value	Volume	Value	Volume	Value
1997	52.0	73,034	12.1	14,456	143.6	190,785
1998	58.8	82,705	9.0	12,357	137.7	184,799
1999	74.7	102,203	11.0	14,893	132.1	177,812
2000	85.1	119,474	11.4	14,960	13.2	185,672
2001/1	24.6	32,012	2.4	3,327	36.6	51,383
2001/2	24.3	30,774	1.6	2,012	34.9	48,021
2001/3	19.8	25,828	2.4	3,093	22.9	30,693
2001/4	20.3	25,158	2.6	3,118	25.8	35,494
Total 2001	88.9	113,772	9.0	11,550	120.2	165,591
2002/1	24.0	30,960	3.2	4,302	27.6	36,315
2002/2	30.5	38,235	3.1	3,819	30.5	42,340
2002/3	22.1	31,638	3.8	5,131	23.3	32,679
2002/4	22.6	30,143	3.1	4,029	32.6	46,069
Total 2002	99.1	130,977	13.3	17,281	113.9	157,403

Year/quarter	Asia		All other		Total	
	Volume	Value	Volume	Value	Volume	Value
1997	45.4	66,564	10.3	12,580	263.5	357,418
1998	36.1	46,955	8.4	10,475	249.9	337,291
1999	46.0	59,228	10.6	12,179	274.4	366,313
2000	52.7	69,467	13.1	15,890	293.8	405,462
2001/1	11.6	15,493	2.5	3,005	77.7	105,220
2001/2	13.5	17,346	3.1	3,346	77.4	101,500
2001/3	14.2	18,187	1.9	2,413	61.3	80,215
2001/4	15.8	18,779	1.7	2,065	66.2	84,613
Total 2001	55.1	69,805	9.2	10,829	282.5	371,548
2002/1	17.5	20,959	2.2	2,587	74.5	95,124
2002/2	21.5	26,795	2.9	3,057	88.4	114,246
2002/3	20.4	24,624	3.2	3,375	72.8	97,446
2002/4	20.0	23,621	3.3	2,924	81.6	106,787
Total 2002	79.5	95,998	11.4	11,943	317.3	413,602

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



Volume and value index of all U.S. hardwood veneer exports, 1997 - 2002.

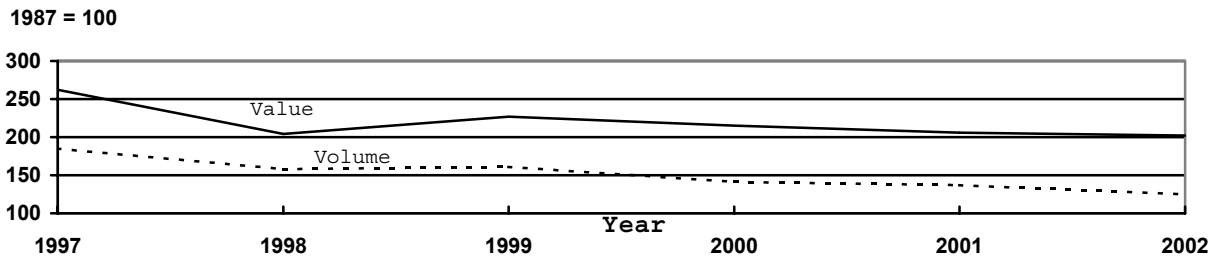
**Table 21.--Volume and value of U.S. hardwood plywood exports, by region, 1997-2002**  
(Cubic meters and thousands of dollars, f.a.s.)

Year/quarter	Canada		Central and South America and Caribbean		Western Europe	
	Volume	Value	Volume	Value	Volume	Value
1997	59,500	23,930	23,617	8,298	5,513	1,505
1998	56,942	19,427	19,654	7,257	911	263
1999	50,036	20,084	30,304	11,161	1,279	337
2000	46,942	22,235	19,489	7,154	703	249
2001/1	10,832	5,154	4,115	1,255	166	129
2001/2	12,977	6,361	4,806	1,579	153	74
2001/3	9,857	4,854	5,860	1,635	303	179
2001/4	10,189	4,731	6,155	1,486	377	149
Total 2001	43,855	21,100	20,936	5,955	999	531
2002/1	11,836	5,701	6,575	1,944	514	208
2002/2	11,369	5,755	5,109	1,840	298	151
2002/3	10,251	4,752	5,480	2,300	542	259
2002/4	7,927	3,867	3,193	1,096	553	207
Total 2002	41,383	20,075	20,357	7,179	1,907	826

Year/quarter	Asia		All other		Total	
	Volume	Value	Volume	Value	Volume	Value
1997	7,732	4,028	1,188	288	97,550	38,049
1998	4,699	2,444	880	224	83,086	29,616
1999	2,591	1,192	428	184	84,638	32,960
2000	6,581	1,461	282	112	73,997	31,211
2001/1	932	466	0	0	16,045	7,004
2001/2	1,603	431	0	0	19,539	8,446
2001/3	2,103	680	0	0	18,123	7,348
2001/4	1,934	692	38	9	18,693	7,066
Total 2001	6,572	2,269	38	9	72,400	29,864
2002/1	462	288	31	11	19,418	8,153
2002/2	433	105	58	21	17,267	7,872
2002/3	387	370	59	17	16,719	7,698
2002/4	948	468	0	0	12,621	5,638
Total 2002	2,230	1,231	148	49	66,025	29,360

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



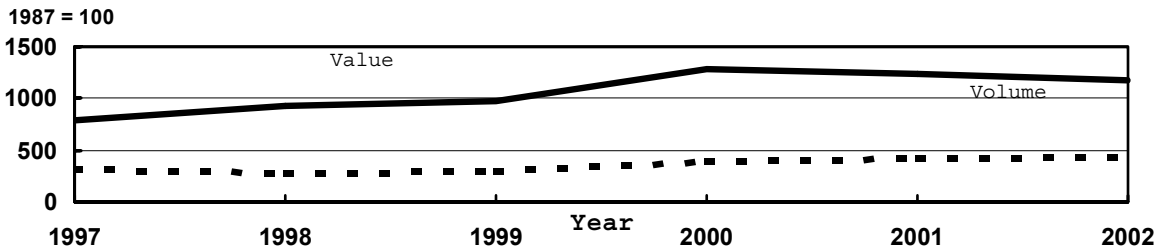
Volume and value index of all U.S. hardwood plywood exports, 1997 - 2002.

**Table 22.--Volume and value of U.S. hardwood log imports, by region, 1997-2002**  
(Cubic meters and thousands of dollars, c.i.f.)

Year/quarter	Canada		Central and South America and Caribbean		Africa	
	Volume	Value	Volume	Value	Volume	Value
1997	187,856	24,710	3,751	1,235	855	698
1998	163,840	29,594	5,901	1,368	816	253
1999	167,478	30,785	7,313	1,372	1,459	567
2000	227,176	41,469	6,322	1,679	1,030	660
2001/1	72,560	13,919	1,254	435	60	50
2001/2	34,372	7,600	1,297	429	250	125
2001/3	72,136	9,089	856	314	295	135
2001/4	69,115	8,413	1,792	363	124	20
Total 2001	248,183	39,021	5,199	1,541	729	331
2002/1	57,409	10,364	12,842	1,471	472	224
2002/2	52,961	7,580	1,817	525	59	53
2002/3	76,499	8,445	5,445	781	186	127
2002/4	59,032	8,791	1,815	562	221	128
Total 2002	245,901	35,179	21,919	3,338	938	532

Year/quarter	Asia and Pacific Ocean		All other		Total	
	Volume	Value	Volume	Value	Volume	Value
1997	635	398	3,815	1,487	196,912	28,529
1998	734	569	2,444	1,857	173,735	33,642
1999	922	934	3,887	1,544	181,059	35,200
2000	1,332	828	4,344	2,064	240,204	46,701
2001/1	572	484	2,015	517	76,461	15,405
2001/2	2,601	344	980	720	39,500	9,218
2001/3	354	516	597	473	74,238	10,527
2001/4	644	264	2,397	473	74,072	9,533
Total 2001	4,171	1,607	5,989	2,184	264,271	44,684
2002/1	362	374	593	427	71,678	12,860
2002/2	166	125	1,785	993	56,788	9,275
2002/3	200	106	861	623	83,191	10,081
2002/4	322	342	2,372	572	63,762	10,394
Total 2002	1,050	947	5,611	2,615	275,419	42,611

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



Volume and value index of all U.S. hardwood log imports, 1997 - 2002.

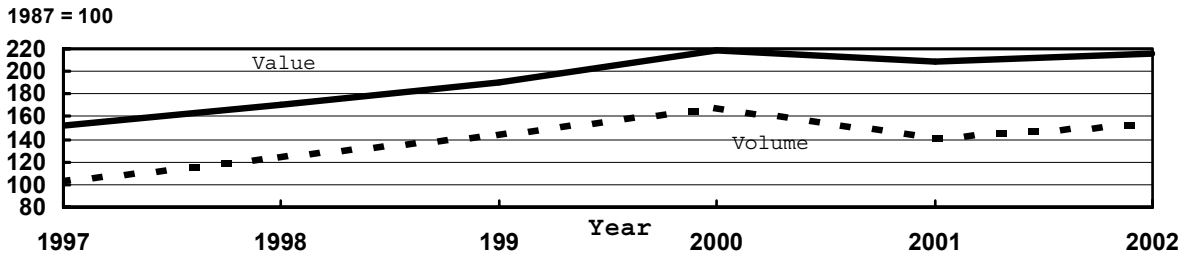


**Table 23.--Volume and value of U.S. hardwood lumber imports, by region, 1997-2002**  
(Cubic meters and thousands of dollars, c.i.f.)

Year/quarter	Canada		Central and South America and Caribbean		Africa	
	Volume	Value	Volume	Value	Volume	Value
1997	710,436	176,154	214,958	114,149	28,971	16,309
1998	925,435	206,859	251,840	138,606	33,125	19,406
1999	1,102,642	245,947	257,073	143,630	30,136	18,154
2000	1,224,411	267,927	294,417	155,872	53,873	30,669
2001/1	263,159	60,592	67,452	45,653	12,051	6,173
2001/2	250,478	58,855	53,046	33,205	13,177	8,092
2001/3	258,591	58,956	65,183	48,944	18,035	9,054
2001/4	259,175	57,642	67,616	46,545	13,900	5,350
Total 2001	1,031,403	236,046	253,297	174,348	57,163	28,668
2002/1	267,538	59,457	61,011	41,035	11,000	5,613
2002/2	287,134	67,440	63,308	42,613	15,909	7,990
2002/3	292,698	64,214	63,141	41,760	14,658	7,642
2002/4	300,078	62,210	69,156	42,235	13,460	7,201
Total 2002	1,147,448	253,321	256,616	167,643	55,027	28,446

Year/quarter	Asia and Pacific Ocean		All other		Total	
	Volume	Value	Volume	Value	Volume	Value
1997	111,367	79,676	18,675	4,075	1,084,407	390,363
1998	92,937	67,610	10,520	4,469	1,313,857	436,949
1999	111,601	76,436	19,545	5,916	1,520,997	490,083
2000	152,702	93,748	35,392	9,425	1,760,795	557,641
2001/1	31,186	21,888	13,492	3,424	387,340	137,730
2001/2	25,873	20,273	12,917	2,998	355,491	123,423
2001/3	29,450	21,739	7,371	3,807	378,630	142,500
2001/4	22,479	17,360	10,360	3,323	373,530	130,220
Total 2001	108,988	81,260	44,140	13,552	1,494,991	533,874
2002/1	20,520	16,943	6,490	3,335	366,559	126,383
2002/2	35,081	24,474	12,872	4,731	414,304	147,248
2002/3	27,983	23,044	22,213	6,866	420,693	143,526
2002/4	27,358	18,776	17,314	6,903	427,366	137,325
Total 2002	110,942	83,236	58,889	21,835	1,628,922	554,482

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



Volume and value index of all U.S. hardwood lumber imports, 1997 - 2002.

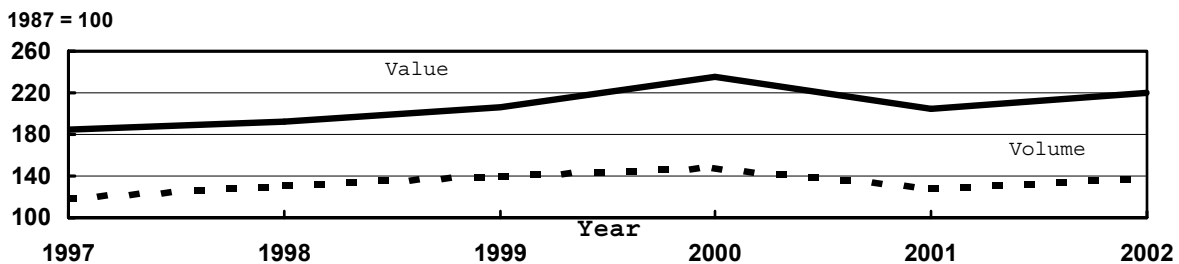
**Table 24.--Volume and value of U.S. hardwood veneer imports, by region, 1997-2002**  
(Million square meters and thousands of dollars, c.i.f.)

Year/quarter	Canada		Central and South America and Caribbean		Africa	
	Volume	Value	Volume	Value	Volume	Value
1997	115.9	163,271	34.8	45,904	12.7	15,369
1998	122.3	163,452	32.7	43,149	20.3	22,770
1999	133.8	183,218	31.7	37,669	26.2	27,940
2000	139.7	209,551	28.7	36,165	25.0	26,808
2001/1	32.4	50,770	6.9	8,198	4.3	5,136
2001/2	28.3	48,408	5.3	8,415	5.3	7,057
2001/3	29.1	42,080	7.9	10,070	5.3	8,249
2001/4	28.8	41,244	7.3	8,653	8.5	6,659
Total 2001	18.7	182,502	27.4	35,336	24.4	27,100
2002/1	33.0	49,026	6.8	8,248	5.0	5,331
2002/2	34.5	54,650	6.0	8,234	8.0	9,326
2002/3	27.2	41,095	8.8	9,295	8.9	10,708
2002/4	28.1	40,866	7.6	9,683	7.3	9,303
Total 2002	122.9	185,638	29.2	35,459	29.3	34,668

Year/quarter	Asia and Pacific Ocean		All other		Total	
	Volume	Value	Volume	Value	Volume	Value
1997	8.9	12,338	13.0	43,399	185.3	280,281
1998	13.8	16,140	16.4	46,579	205.4	292,090
1999	11.0	14,543	15.6	48,631	218.5	312,000
2000	10.7	16,753	26.2	67,130	230.4	356,407
2001/1	2.0	3,954	5.2	12,333	50.9	80,391
2001/2	1.6	2,226	6.3	13,560	46.9	79,666
2001/3	3.8	4,492	4.5	11,397	53.8	76,288
2001/4	3.0	3,270	3.6	12,035	49.0	71,861
Total 2001	10.5	13,943	19.6	49,325	200.6	308,206
2002/1	2.1	3,199	4.1	13,004	51.2	78,808
2002/2	3.5	3,260	8.0	16,701	60.2	92,171
2002/3	2.4	4,544	6.9	18,066	54.1	83,708
2002/4	2.6	3,691	4.6	14,387	50.2	77,931
Total 2002	10.7	14,693	23.6	62,158	215.6	332,617

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



Volume and value index of all U.S. hardwood veneer imports, 1997 - 2002.

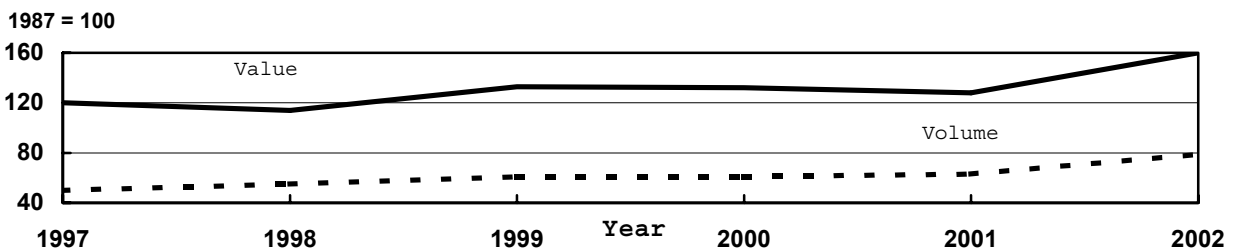
**Table 25.--Volume and value of U.S. hardwood plywood imports, by region, 1997-2002**  
(Cubic meters and thousands of dollars, c.i.f.)

Year/quarter	Canada		Central and South America and Caribbean		Africa	
	Volume	Value	Volume	Value	Volume	Value
1997	253,286	116,947	350,048	140,644	152	114
1998	272,249	134,029	185,572	72,300	881	534
1999	297,190	157,470	275,804	97,048	1,619	659
2000	340,356	171,449	337,255	120,789	12,487	4,308
2001/1	81,239	42,129	85,551	28,448	6,567	2,413
2001/2	91,164	45,803	86,019	26,293	5,195	1,622
2001/3	81,665	41,267	79,513	25,325	2,883	1,000
2001/4	67,466	35,760	77,006	23,072	2,116	636
Total 2001	321,534	164,960	328,089	103,139	16,761	5,672
2002/1	84,763	43,620	83,319	23,996	2,348	845
2002/2	97,938	52,786	104,272	31,393	3,978	1,310
2002/3	78,023	44,448	117,125	35,902	5,794	1,835
2002/4	74,715	44,263	95,026	28,805	6,313	2,034
Total 2002	335,439	185,117	399,742	120,096	18,433	6,024

Year/quarter	Asia and Pacific Ocean		All other		Total	
	Volume	Value	Volume	Value	Volume	Value
1997	923,270	444,287	180,367	70,629	1,707,123	772,622
1998	1,217,893	441,262	203,580	91,060	1,880,175	739,185
1999	1,211,676	493,765	284,589	111,682	2,070,878	860,625
2000	1,046,752	424,576	344,230	131,551	2,081,080	852,673
2001/1	229,125	91,908	77,725	30,291	480,207	195,190
2001/2	268,093	103,103	111,449	40,948	561,920	217,769
2001/3	265,869	99,415	109,335	40,299	539,265	207,307
2001/4	294,765	106,584	111,271	40,918	552,624	206,970
Total 2001	1,057,852	401,010	409,780	152,456	2,134,016	827,236
2002/1	296,031	102,162	76,976	29,599	543,437	200,222
2002/2	355,306	128,906	175,232	53,022	736,726	267,417
2002/3	418,489	159,337	151,247	59,546	770,678	301,069
2002/4	339,205	136,745	139,434	56,877	654,693	268,724
Total 2002	1,409,031	527,151	542,889	199,044	2,705,534	1,037,432

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

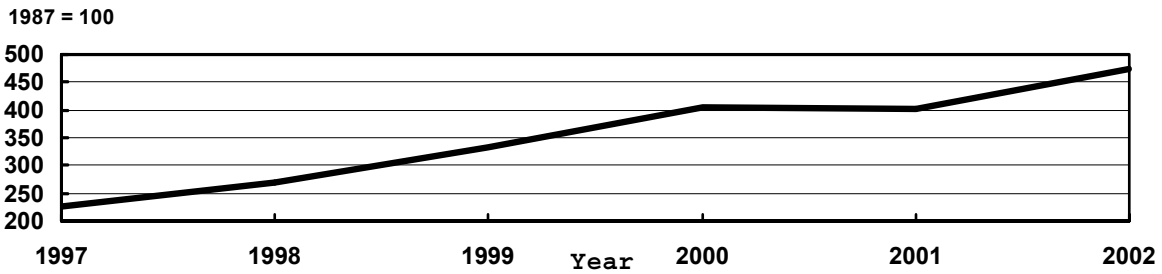


Volume and value index of all U.S. hardwood plywood imports, 1997 - 2002.

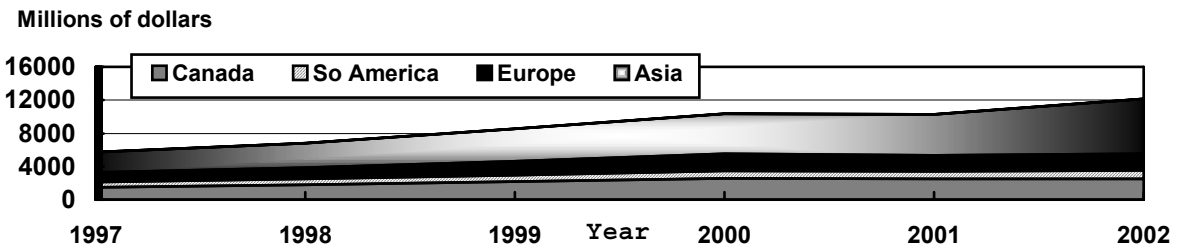
**Table 26.--Value of U.S. wood furniture imports, by region, 1997-2002**  
(Thousands of dollars, c.i.f.)

Year/ quarter	Canada	Central and South America and Caribbean	Europe	Asia, Middle East, and Pacific	All other	Total
1997	1,460,377	629,273	1,190,400	2,458,208	27,331	5,765,589
1998	1,785,320	701,456	1,393,502	2,955,214	34,429	6,869,921
1999	2,173,010	800,299	1,636,374	3,908,433	32,366	8,550,482
2000	2,556,924	914,657	2,038,683	4,819,201	40,507	10,369,973
2001/1	615,521	223,528	502,473	1,124,298	8,024	2,473,844
2001/2	616,482	222,103	482,680	1,152,188	10,994	2,484,447
2001/3	649,071	237,533	448,621	1,218,477	10,979	2,564,680
2001/4	605,019	244,202	508,887	1,421,439	8,316	2,787,862
Total 2001	2,486,092	927,366	1,942,661	4,916,402	38,312	10,310,834
2002/1	586,047	227,260	454,006	1,333,967	7,072	2,608,353
2002/2	627,976	261,964	509,944	1,666,967	8,401	3,075,252
2002/3	635,344	275,205	553,440	1,778,856	8,212	3,251,058
2002/4	626,896	274,952	523,668	1,819,716	10,116	3,255,349
Total 2002	2,476,264	1,039,382	2,041,059	6,599,506	33,801	12,190,012

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



Value index of U.S. furniture imports, 1997 - 2002.



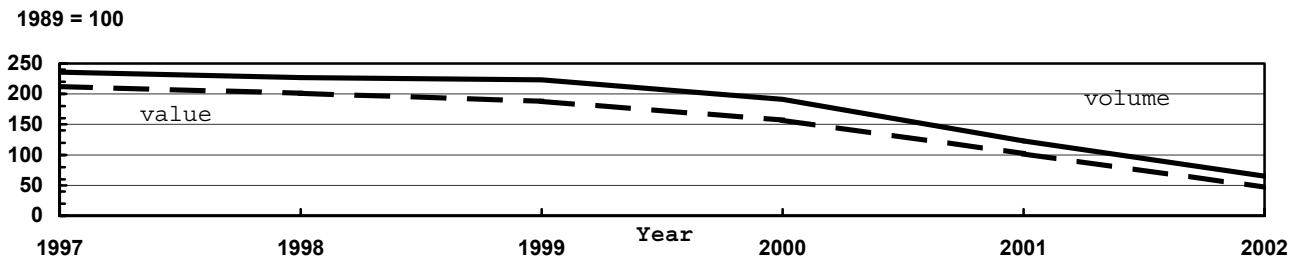
Value of U.S. furniture imports, by region, 1997 - 2002.

**Table 27.--Volume and value of U.S. exports of nonconiferous chips, by region, 1997-2002**  
(Tons and thousands of dollars, f.a.s.)

Year/quarter	Western Europe		Canada		Japan		Mexico	
	Volume	Value	Volume	Value	Volume	Value	Volume	Value
1997	1,753	174	294,811	10,520	3,687,410	320,192	107	62
1998	5,059	564	268,536	8,831	3,566,618	311,816	0	0
1999	7,895	909	250,204	8,197	3,320,756	278,124	253	94
2000	25,042	10,642	294,118	9,549	2,734,753	217,700	15,001	934
2001/1	5,527	2,750	96,252	2,967	520,270	42,587	0	0
2001/2	5,696	1,872	70,417	2,289	462,075	35,699	0	0
2001/3	9,734	3,557	86,370	2,612	347,557	27,373	0	0
2001/4	9,885	3,395	82,578	2,500	243,913	21,880	0	0
Total 2001	30,842	11,574	335,617	10,369	1,573,815	127,539	0	0
2002/1	7,761	2,800	87,562	2,570	282,468	22,633	0	0
2002/2	5,725	2,103	93,950	2,882	111,394	9,497	0	0
2002/3	55,671	2,557	107,291	3,298	117,594	7,889	4	3
2002/4	4,188	1,825	102,437	3,039	55,863	5,022	275	19
Total 2002	73,345	9,285	391,240	11,789	567,319	45,042	279	22

Year/quarter	Taiwan		Korea		All other		Total	
	Volume	Value	Volume	Value	Volume	Value	Volume	Value
1997	0	0	58,807	11,207	8,555	947	4,051,443	343,103
1998	0	0	33,390	3,477	10,702	1,502	3,884,305	326,190
1999	0	0	221,253	15,317	14,310	1,588	3,814,671	304,231
2000	1,012	612	195,435	11,336	10,355	2,802	3,275,716	253,575
2001/1	767	455	46,185	2,154	5,291	655	674,292	51,568
2001/2	882	526	26,044	2,451	662	327	565,776	43,165
2001/3	1,794	1,322	45,723	3,369	585	142	491,763	38,375
2001/4	879	333	25,829	2,451	3,787	705	366,871	31,264
Total 2001	4,322	2,637	143,781	10,424	10,325	1,829	2,098,702	164,372
2002/1	943	381	3,900	1,452	493	328	383,127	30,165
2002/2	669	254	45,493	2,303	2,532	1,050	259,763	18,090
2002/3	1,166	484	23,525	1,908	2,656	864	307,907	17,004
2002/4	1,412	623	100	44	1,028	292	165,303	10,865
Total 2002	4,190	1,743	73,018	5,707	6,709	2,535	1,116,100	76,123

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



Volume and value index of all U.S. exports of nonconiferous chips, 1997 - 2002.

## 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.

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