



United States  
Department of  
Agriculture

Forest Service

**Northeastern Forest  
Experiment Station**

Research Note NE-359



# **Bulletin of Hardwood Market Statistics: First, Second, and Third Quarters - 1994**

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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**

The format of the bulletin has been revised. Only the previous 5 years are reported along with current-year data. Readers should refer to Research Note NE-358, "Bulletin of Hardwood Market Statistics: Winter 1993" (Nolley 1994), for a more complete historical series.

Data contained in this bulletin are intended to provide a general overview of recent trends in the hardwood market for use by hardwood-related industries, forest managers, the academic community, and the general 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 import and export data for hardwood logs, lumber, veneer, and plywood reported here 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 Cynthia West at 304-425-8106.

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 upon request. Send your comments and requests to Jean W. Nolley at the address below.

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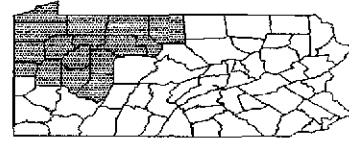
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## Tables Included in This Series of Reports and Frequency of Update

Number	Title	Frequency of update
<b>Hardwood Stumpage, Log, and Lumber Prices</b>		
1	Average hardwood stumpage prices in northwestern Pennsylvania, 1989-94	Quarterly
2	Average hardwood stumpage prices in Missouri, statewide, 1989-94	Quarterly
3	Average hardwood stumpage prices in Maine, statewide, 1989-93	Yearly
4	Average hardwood stumpage prices in the northern and delta and river regions of Mississippi, 1989-94	Bi-monthly
5	Average hardwood mill prices of grade 1 logs in northwestern Pennsylvania, 1989-94	Quarterly
6	Average hardwood mill prices of grade 1 logs in Missouri, statewide, 1989-94	Quarterly
7	Average hardwood mill prices of grade 1 logs in eastern Tennessee, 1989-94	Quarterly
8	Average hardwood mill prices in the northern and delta and river regions of Mississippi, 1989-94	Bi-monthly
9	Air-dried hardwood lumber prices, 1989-94	Quarterly
10	Kiln-dried hardwood lumber prices, 1989-94	Monthly
<b>Hardwood Product Prices, Production, and Employment</b>		
11	Producer price indexes for selected wood industries, 1989-94	Quarterly
12	Value of domestic wood furniture shipments and wood furniture imports, 1989-93	Yearly
13	Production of wood pallets and oak strip flooring, 1989-93	Yearly
14	Employment in selected wood-using industries, 1989-94	Quarterly
<b>International Hardwood Product Trade</b>		
15	International exchange rate, foreign currency per U.S. dollar, 1989-94	Quarterly
16	Volume and value of U.S. hardwood log exports, by region, 1989-94	Quarterly
17	Volume and value of U.S. hardwood lumber exports, by region, 1989-94	Quarterly
18	Volume and value of U.S. hardwood veneer exports, by region, 1989-94	Quarterly
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20	Volume and value of U.S. hardwood log imports, by region, 1989-94	Quarterly
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23	Volume and value of U.S. hardwood plywood imports, by region, 1989-94	Quarterly
24	Value of U.S. wood furniture imports, by region, 1989-94	Quarterly
25	Volume and value of U.S. exports of nonconiferous chips, by region, 1989-94	Quarterly

## HARDWOOD STUMPAGE, LOG, AND LUMBER PRICES

**Table 1.--Average hardwood stumpage prices in northwestern Pennsylvania, 1989-94**  
(Dollars/Mbf, International 1/4" scale)



Year/quarter	Red oak	White oak	Black cherry	Hard maple	Soft maple	Yellow-poplar
1989	302	157	331	78	58	50
1990	303	157	380	77	57	58
1991	282	162	416	85	64	63
1992	351	187	544	123	76	60
1993/1	472	247	739	188	98	88
1993/2	483	223	710	206	112	90
1993/3	457	242	713	178	118	95
1993/4	502	226	831	204	126	99
1993 avg.	479	235	748	194	114	93
1994/1	454	199	782	217	121	94
1994/2	561	252	945	224	141	114
1994/3	550	264	901	213	138	129
1994/4	--	--	--	--	--	--
1994 avg.	--	--	--	--	--	--

Source: Cooperative Extension Service, U.S. Department of Agriculture, The Pennsylvania State University.

**Table 2.--Average hardwood stumpage prices in Missouri, statewide, 1989-94**  
(Dollars/Mbf, International 1/4" scale)

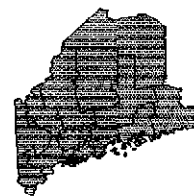


Year/quarter	Red oak	White oak	Ash	Hard maple	Soft maple	Mixed hardwoods
1989	NA	NA	NA	NA	NA	NA
1990	NA	NA	NA	NA	NA	NA
1991	95	102	39	NA	48	51
1992	99	109	96	NA	71	62
1993/1	105	94	70	NA	65	84
1993/2	131	126	160	NA	NA	79
1993/3	115	121	91	99	NA	76
1993/4	113	111	240	50	69	71
1993 avg.	116	113	140	75	67	76
1994/1	109	133	101	NA	NA	102
1994/2	177	162	181	40	40	132
1994/3	169	139	197	NA	155	86
1994/4	--	--	--	--	--	--
1994 avg.	--	--	--	--	--	--

NA - Not available.

Source: Missouri Department of Conservation, Forestry Division.

**Table 3.--Average hardwood stumpage prices in Maine, statewide, 1989-93**  
(Dollars/Mbf, International 1/4" scale)



Year/quarter	Oak	Yellow birch	White ash	Hard maple	Soft maple
1989	195	NA	NA	NA	41
1990	174	79	140	75	36
1991	207	82	123	88	33
1992	162	71	109	72	45
1993	176	73	121	91	54

NA - Not available.

Source: Management and Utilization Division, Maine Forest Service.

**Table 4.--Average hardwood stumpage prices in the northern and delta and river regions of Mississippi, 1989-94**  
(Dollars/Mbf, Doyle scale)



Year/quarter	North		Delta and River	
	Oak	Mixed hardwoods	Oak	Mixed hardwoods
1989	126	88	167	74
1990	131	101	192	99
1991	135	93	174	87
1992	154	101	197	84
1993P:				
Jan-Feb	169	105	314	115
Mar-Apr	214	119	337	159
May-Jun	196	121	338	110
Jul-Aug	269	124	327	117
Sep-Oct	235	128	306	120
Nov-Dec	225	157	317	122
1993 average	218	126	323	124
1994:				
Jan-Feb	224	149	369	126
Mar-Apr	209	131	268	148
May-Jun	215	141	355	150
Jul-Aug	205	119	300	121
Sep-Oct	-	-	-	-
Nov-Dec	-	-	-	-
1994 average	-	-	-	-

Source: Cooperative Extension Service, Mississippi State University, Mississippi State.

**Table 5.--Average hardwood mill prices of grade 1 logs in northwestern Pennsylvania, 1989-94**  
(Dollars/Mbf, International 1/4" scale)



Year/quarter	Red oak	White oak	Black cherry	Hard maple	Soft maple	Yellow-poplar
1989	393	305	409	161	130	113
1990	369	260	376	166	131	116
1991	379	285	424	174	149	143
1992	455	321	527	228	176	158
1993/1	510	380	633	349	233	175
1993/2	475	333	585	363	201	182
1993/3	504	324	662	364	229	156
1993/4	472	299	637	348	214	175
1993 avg.	490	334	629	356	219	172
1994/1	599	330	722	335	220	169
1994/2	479	352	641	329	218	158
1994/3	546	877	704	335	222	206
1994/4	--	--	--	--	--	--
1994 avg.	--	--	--	--	--	--

Source: Cooperative Extension Service, U.S. Department of Agriculture, The Pennsylvania State University.

**Table 6.--Average hardwood mill prices of grade 1 logs in Missouri, statewide, 1989-94**  
(Dollars/Mbf, International 1/4" scale)



Year/quarter	Red oak	White oak	Cherry	Ash	Soft maple	Black walnut
1989	NA	NA	NA	NA	NA	NA
1990	NA	NA	NA	NA	NA	NA
1991	267	274	317	207	182	531
1992	297	285	319	277	162	509
1993/1	321	298	193	294	206	454
1993/2	NA	NA	NA	NA	NA	NA
1993/3	336	283	173	237	209	429
1993/4	399	356	129	392	372	431
1993 avg.	NA	NA	NA	NA	NA	NA
1994/1	345	295	320	262	250	552
1994/2	354	342	471	262	230	425
1994/3	345	347	448	335	276	497
1994/4	--	--	--	--	--	--
1994 avg.	--	--	--	--	--	--

NA - Not available.

Source: Missouri Department of Conservation, Forestry Division.

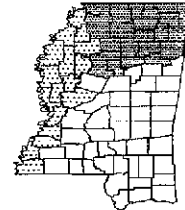
**Table 7.--Average hardwood mill prices of grade 1 logs in eastern Tennessee, 1989-94**  
(Dollars/Mbf, Doyle scale)



Year/quarter	Red Oak	White oak	Walnut	Ash	Hard maple	Yellow-poplar
1989	550	450	500	500	200	200
1990	575	481	425	500	200	238
1991	519	550	400	500	200	250
1992	588	563	400	500	200	250
1993/1	650	600	400	500	300	250
1993/2	700	675	400	500	300	250
1993/3	775	700	500	550	350	325
1993/4	775	700	500	550	350	325
1993 avg.	725	669	450	525	325	288
1994/1	775	700	500	550	350	325
1994/2	775	700	500	550	350	325
1994/3	775	700	500	550	400	325
1994/4	--	--	--	--	--	--
1994 avg.	--	--	--	--	--	--

Source: The Tennessee Division of Forestry, Utilization Section.

**Table 8.--Average hardwood mill prices in the northern and delta and river regions of Mississippi, 1989-94**  
(Dollars/Mbf, Doyle scale)



Year/quarter	North		Delta and River	
	Oak	Mixed hardwoods	Oak	Mixed hardwoods
1989	202	174	242	151
1990	202	181	272	160
1991	NA	187	239	156
1992	247	198	281	169
1993:				
Jan-Feb	300	246	363	188
Mar-Apr	310	250	371	209
May-Jun	320	220	380	220
Jul-Aug	330	223	373	205
Sep-Oct	358	229	366	211
Nov-Dec	355	225	377	183
1993 avg.	329	232	372	203
1994:				
Jan-Feb	310	218	404	155
Mar-Apr	310	230	400	183
May-Jun	324	233	405	196
Jul-Aug	318	227	371	190
Sep-Oct	-	-	-	-
Nov-Dec	-	-	-	-
1994 avg.	-	-	-	-

NA - Not available.

Source: Cooperative Extension Service, Mississippi State University.

**Table 9.--Air-dried hardwood lumber prices, 1989-94**  
(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
1989	535	289	778	395	315
1990	540	309	664	395	329
1991	530	284	620	400	335
1992	638	290	674	501	356
1993/1	755	320	850	650	405
1993/2	800	365	925	730	465
1993/3	800	420	1025	760	505
1993/4	800	430	1040	760	525
1993 avg.	789	384	960	725	475
1994/1	800	425	1040	740	545
1994/2	800	430	1040	740	545
1994/3	800	425	1040	730	610
1994/4	-	-	-	-	-
1994 avg.	-	-	-	-	-

Source: By permission from the Hardwood Market Report, Memphis, TN.

**Table 10.--Kiln-dried hardwood lumber prices, 1989-94**  
(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
1989	751	356	943	813	NA
1990	775	408	771	545	NA
1991	744	362	695	569	NA
1992	876	432	803	694	NA
1993/1	980-1115	520-570	1100-1240	940-1030	685-735
1993/2	1015-1150	580-630	1320-1460	980-1070	760-810
1993/3	1015-1150	580-630	1320-1460	980-1070	760-810
1993/4	985-1090	535-585	1345-1485	970-1060	760-810
1993 avg.	1043	579	1457	987	NA
1994/1	985-1115	555-605	1375-1515	965-1055	760-810
1994/2	955-1115	570-620	1395-1535	930-1020	770-820
1994/3	965-1115	560-610	1390-1530	930-1020	740-790
1994/4	-	-	-	-	-
1994 avg.	-	-	-	-	-

NA - Not available.

Source: Weekly Hardwood Review, Charlotte, NC.

## HARDWOOD PRODUCT PRICES, PRODUCTION, AND EMPLOYMENT

**Table 11.--Producer price indexes for selected wood industries, 1989-94**  
(1982=100)

Year/ quarter	Hardwood lumber	Hardwood dimension	Wood kitchen cabinets	Wood household furniture	Upholstered wood household furniture	Wood office furniture	All commodities
1989	128.2	130.5	118.0	127.5	119.7	129.0	112.2
1990	131.0	138.9	121.7	131.7	121.9	133.0	116.3
1991	128.5	140.9	125.2	135.4	124.9	135.9	116.5
1992	140.7	145.5	129.2	138.7	125.9	138.3	117.2
1993/1	155.7	154.7	132.7	141.4	126.7	139.5	118.4
1993/2	164.1	162.0	134.4	143.6	127.4	140.2	119.5
1993/3	167.2	165.7	135.9	144.7	128.1	142.4	118.9
1993/4	166.3	166.1	137.4	146.1	133.6	142.8	118.9
1993 avg.	163.3	162.1	135.1	143.9	128.9	141.3	118.9
1994/1	167.0	168.2	138.9	148.1	133.1	143.9	119.4
1994/2	168.3	169.5	140.2	149.7	134.3	145.4	120.0
1994/3	168.9	171.1	141.3	150.8	134.6	146.3	121.0
1994/4	-	-	-	-	-	-	-
1994 avg.	-	-	-	-	-	-	-

Source: Producer Price Indexes, U.S. Department of Labor, Bureau of Labor Statistics.

**Table 12.--Value of domestic wood furniture shipments and wood furniture imports, 1989-93**  
(Millions of dollars)

Year	Value of <sup>1</sup> domestic wood furniture shipments (actual \$)	Value of <sup>2</sup> domestic wood furniture shipments (1982 \$)	Value of <sup>3</sup> wood furniture imports (actual \$, c.i.f.)	Value of wood <sup>2</sup> furniture imports (1982 \$, c.i.f.)	Ratio of <sup>4</sup> imports to domestic production
1989	8461	6636	2565	2012	.30
1990	8303	6304	2567	1949	.31
1991	7980	5894	2436	1799	.31
1992	8645	6231	2601	1875	.32
1993	9377	6520	3081	2142	.33

<sup>1</sup> Source: U.S. Department of Commerce, International Trade Administration.

<sup>2</sup> Deflated by wood household furniture price index listed in Table 11.

<sup>3</sup> Source: U.S. Department of Commerce, Bureau of the Census.

<sup>4</sup> Developed from columns 1 and 3.



**Table 13.--Production of wood pallets and oak strip flooring, 1989-93**

Year	Wood pallets <sup>1</sup> (Million)	Oak strip flooring <sup>2</sup> (M feet)
1989	504.8	206,401
1990	536.4	205,187
1991	540.7	199,734
1992	565.6	222,573
1993	599.0	265,858

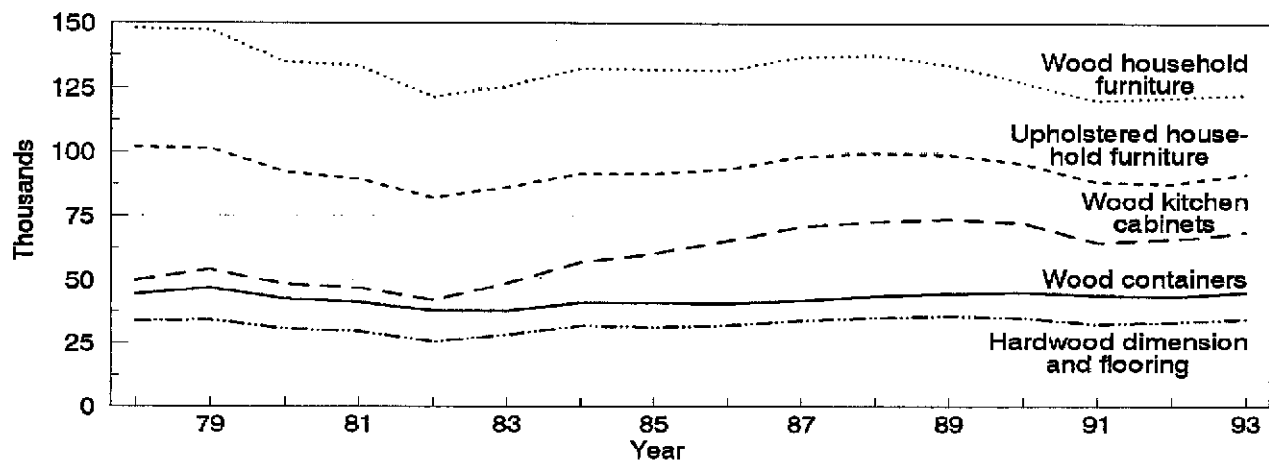
<sup>1</sup> Source: National Wooden Pallet and Container Association statistics.

<sup>2</sup> Source: National Oak Flooring Manufacturers Association statistics.

**Table 14.--Employment in selected wood-using industries, 1989-94**  
(Thousands)

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)
1989	44.7	99.0	134.0	73.6	35.8
1990	45.1	95.6	127.3	72.3	34.8
1991	44.0	88.2	120.2	64.6	32.6
1992	43.5	87.5	121.2	65.7	33.3
1993/1	43.8	91.1	123.0	66.9	34.1
1993/2	45.7	91.4	123.3	68.5	34.5
1993/3	45.8	90.3	120.2	69.1	34.5
1993/4	45.5	92.5	123.2	69.8	34.8
1993 avg.	45.2	91.3	122.4	68.6	34.5
1994/1	45.5	93.2	122.5	70.3	35.3
1994/2	47.4	93.0	123.1	73.1	35.7
1994/3	47.5	91.7	121.7	75.8	35.7
1994/4	-	-	-	-	-
1994 avg.	-	-	-	-	-

Source: U.S. Department of Labor.



Employment in selected wood-using industries, 1978-1993.

## INTERNATIONAL HARDWOOD PRODUCT TRADE

**Table 15.--International exchange rate, foreign currency per U.S. dollar, 1989-94**

Year/qtr.	Belgium (franc)	Canada (dollar)	China (yuan)	France (franc)	Germany (mark)	Hong Kong (H.K. \$)	Indonesia (rupiah)	Italy (lira)
1989	39.404	1.1840	3.7651	6.3801	1.8800	7.7999	1770.06	1372.1
1990	33.418	1.1668	4.7832	5.4453	1.6157	7.7897	1842.81	1198.1
1991	34.148	1.1457	5.3234	5.6421	1.6595	7.7712	1950.32	1240.6
1992	32.149	1.2087	5.5146	5.2938	1.5616	7.7406	2029.92	1232.4
1993/1	33.675	1.2614	5.7551	5.5467	1.6349	7.7353	2066.85	1554.2
1993/2	33.275	1.2702	5.7218	5.4583	1.6181	7.7310	2076.92	1503.9
1993/3	33.569	1.3039	5.7749	5.8123	1.6777	7.7490	2098.60	1585.3
1993/4	35.868	1.3248	5.7961	5.8357	1.6826	7.7270	2106.04	1661.2
1993 avg.	34.597	1.2901	5.7620	5.6633	1.6533	7.7356	2087.10	1573.7
1994/1	35.638	1.3412	8.7019	5.8620	1.7342	7.7273	2128.71	1684.8
1994/2	34.217	1.3823	8.6725	5.6875	1.6617	7.7273	2152.63	1604.3
1994/3	32.196	1.3712	8.5901	5.3536	1.5621	7.7270	2171.52	1571.5
1994/4	--	--	--	--	--	--	--	--
1994 avg.	--	--	--	--	--	--	--	--

Year/qtr.	Japan (yen)	Malaysia (ringgit)	Mexico (peso)	Singapore (S.dollar)	So.Korea (won)	Spain (pesetas)	Turkey (liras)	U.K. (pound)
1989	137.96	2.7089	2.46	1.9503	671.46	118.38	2121.68	0.611
1990	144.79	2.7049	2.81	1.8125	707.76	101.93	2608.64	0.563
1991	134.71	2.7501	3.02	1.7276	733.35	103.91	4171.82	0.567
1992	126.65	2.5474	3.09	1.6290	780.65	102.38	6872.42	0.570
1993/1	121.01	2.6124	3.11	1.6482	793.94	116.60	9051.64	0.678
1993/2	110.06	2.5707	3.11	1.6175	799.50	121.17	9999.67	0.651
1993/3	105.57	2.5567	3.12	1.6094	808.33	134.60	NA	0.665
1993/4	108.14	2.5566	3.13	1.5881	808.91	136.68	NA	0.673
1993 avg.	111.20	2.5741	3.12	1.6158	802.67	127.26	NA	0.667
1994/1	107.62	2.7313	3.17	1.5910	807.78	141.06	NA	0.672
1994/2	103.33	2.6328	3.34	1.5463	807.24	136.40	NA	0.665
1994/3	99.05	2.5726	3.39	1.5026	803.09	129.35	NA	0.645
1994/4	--	--	--	--	--	--	--	--
1994 avg.	--	--	--	--	--	--	--	--

NA - Not available.

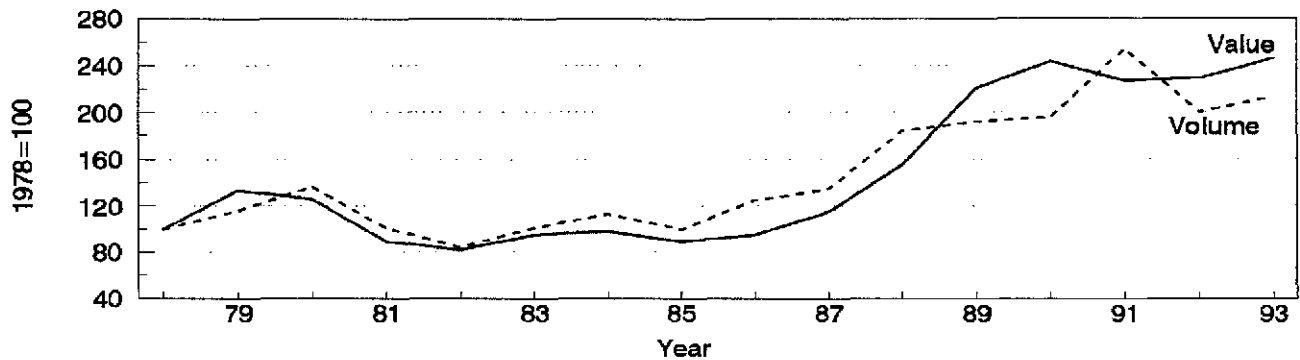
Source: International Monetary Fund.

**Table 16.--Volume and value of U.S. hardwood log exports, by region, 1989-94**  
(Cubic meters and thousands of dollars, f.a.s.)

Year/qtr.	Canada		Central & South America and Caribbean		Western Europe	
	Volume	Value	Volume	Value	Volume	Value
1989	113,186	18,124	31,970	8,651	386,120	93,087
1990	325,584	51,781	13,915	4,118	292,686	91,063
1991	416,893	53,930	17,142	4,201	230,866	78,635
1992	522,481	62,713	16,405	5,727	193,992	82,005
1993/1	158,648	20,661	2,965	1,340	50,946	22,701
1993/2	113,371	16,566	3,455	1,711	45,265	20,671
1993/3	171,481	18,009	2,426	1,061	18,964	9,184
1993/4	172,813	18,389	3,038	969	45,690	20,045
Total 1993	616,313	73,627	11,884	5,082	160,865	72,603
1994/1	184,936	21,260	3,728	1,391	56,548	23,552
1994/2	121,270	18,576	6,467	2,282	68,977	28,969
1994/3	194,007	23,170	4,260	1,432	34,081	14,655
1994/4	--	--	--	--	--	--
Total 1994	--	--	--	--	--	--

Year/qtr.	Asia		All other		Total	
	Volume	Value	Volume	Value	Volume	Value
1989	409,682	98,955	24,231	86,155	965,189	227,433
1990	335,104	96,965	14,222	61,900	981,511	250,116
1991	605,581	94,533	5,245	16,888	1,275,727	232,986
1992	240,269	83,666	30,489	17,455	1,003,636	235,858
1993/1	78,507	31,276	1,106	431	292,172	76,409
1993/2	103,854	35,244	1,201	247	267,146	74,439
1993/3	35,459	12,019	153	82	228,483	40,358
1993/4	60,573	21,399	672	246	282,786	61,046
Total 1993	278,393	99,937	3,132	10,066	1,070,587	252,253
1994/1	72,556	26,033	417	213	318,185	72,446
1994/2	80,230	31,040	2,622	995	279,566	81,854
1994/3	34,450	13,557	1,427	522	268,225	53,330
1994/4	--	--	--	--	--	--
Total 1994	--	--	--	--	--	--

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



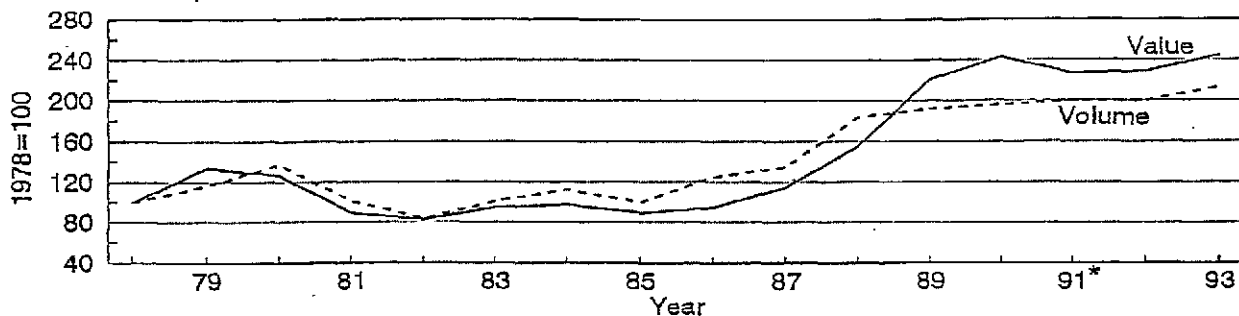
Volume and value index of all U.S. hardwood log exports, 1978-1993.

Table 16.--Volume and value of U.S. hardwood log exports, by region, 1989-94  
(Cubic meters and thousands of dollars, f.a.s.)

Year/qtr.	Canada		Central & South America and Caribbean		Western Europe	
	Volume	Value	Volume	Value	Volume	Value
1989	113,186	18,124	31,970	8,651	386,120	93,087
1990	325,584	51,781	13,915	4,118	292,686	91,063
1991	416,893	53,930	17,142	4,201	230,866	78,635
1992	522,481	62,713	16,405	5,727	193,992	82,005
1993/1	158,648	20,661	2,965	1,340	50,946	22,701
1993/2	113,371	16,566	3,455	1,711	45,265	20,671
1993/3	171,481	18,009	2,426	1,061	18,964	9,184
1993/4	172,813	18,389	3,038	969	45,690	20,045
Total 1993	616,313	73,627	11,884	5,082	160,865	72,603
1994/1	184,936	21,260	3,728	1,391	56,548	23,552
1994/2	121,270	18,576	6,467	2,282	68,977	28,969
1994/3	194,007	23,170	4,260	1,432	34,081	14,655
1994/4	--	--	--	--	--	--
Total 1994	--	--	--	--	--	--

Year/qtr.	Asia		All other		Total	
	Volume	Value	Volume	Value	Volume	Value
1989	409,682	98,955	24,231	86,155	965,189	227,433
1990	335,104	96,965	14,222	61,900	981,511	250,116
1991*	335,091	94,533	5,245	16,888	1,005,237	232,986
1992	240,269	83,666	30,489	17,455	1,003,636	235,858
1993/1	78,507	31,276	1,106	431	292,172	76,409
1992/2	103,854	35,244	1,201	247	267,146	74,439
1993/3	35,459	12,019	153	82	228,483	40,358
1993/4	60,573	21,399	672	246	282,786	61,046
Total 1993	278,393	99,937	3,132	10,066	1,070,587	252,253
1994/1	72,556	26,033	417	213	318,185	72,446
1994/2	80,230	31,040	2,622	995	279,566	81,854
1994/3	34,450	13,557	1,427	522	268,225	53,330
1994/4	--	--	--	--	--	--
Total 1994	--	--	--	--	--	--

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



Volume and value index of all U.S. hardwood log exports, 1978-1993.

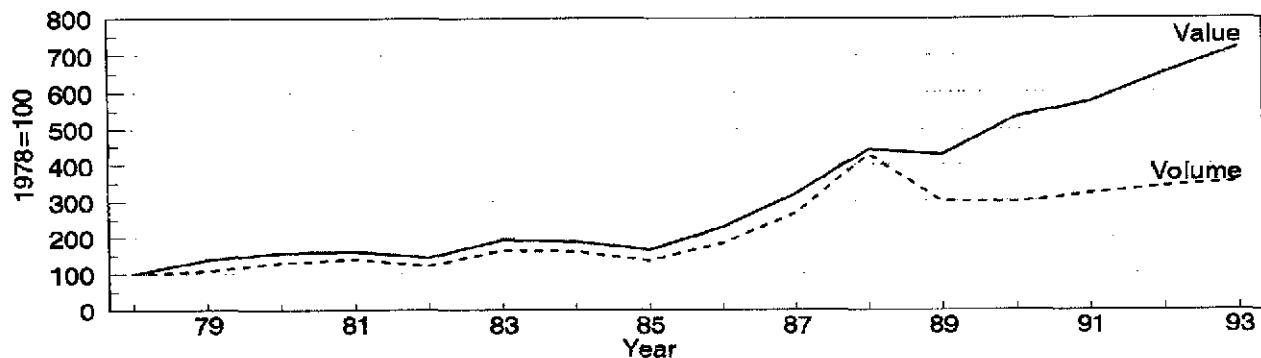
\* 1991 volume adjusted for Asia because of known errors. See Luppold, 1995.

**Table 17.--Volume and value of U.S. hardwood lumber exports, by region, 1989-94**  
(Cubic meters and thousands of dollars, f.a.s.)

Year/qtr.	Canada		Central & South America and Caribbean		Western Europe	
	Volume	Value	Volume	Value	Volume	Value
1989	431,356	113,452	116,101	28,409	653,325	253,812
1990	547,941	198,767	89,427	26,960	653,309	313,550
1991	465,152	166,462	106,483	33,082	771,827	368,731
1992	602,457	195,976	129,753	43,497	801,865	431,696
1993/1	171,286	59,484	26,332	11,003	183,405	107,624
1993/2	171,264	59,477	28,947	11,657	190,661	114,236
1993/3	166,519	57,315	36,460	14,221	174,045	103,846
1993/4	193,571	60,289	32,885	12,618	178,665	104,076
Total 1993	702,640	236,565	124,624	49,493	726,776	429,784
1994/1	190,611	62,460	35,769	13,824	195,916	114,231
1994/2	195,396	65,955	30,296	12,006	202,904	118,414
1994/3	184,557	60,894	40,352	15,395	169,909	101,999
1994/4	--	--	--	--	--	--
Total 1994	--	--	--	--	--	--

Year/qtr.	Asia		All other		Total	
	Volume	Value	Volume	Value	Volume	Value
1989	664,982	221,410	46,814	17,071	1,912,578	634,156
1990	540,412	222,899	60,584	27,996	1,891,673	790,167
1991	651,148	257,188	56,856	24,500	2,051,466	849,963
1992	583,845	266,199	51,019	26,022	2,168,939	963,388
1993/1	144,483	73,022	12,444	6,846	537,950	257,982
1993/2	171,815	85,331	13,062	7,254	575,749	277,948
1993/3	179,920	90,142	15,651	8,867	572,595	274,387
1993/4	145,574	73,905	9,938	5,549	560,633	256,439
Total 1993	641,792	322,400	51,095	28,518	2,246,927	1,066,755
1994/1	142,038	72,107	12,594	6,882	576,928	269,497
1994/2	169,857	86,763	8,585	5,003	607,038	288,135
1994/3	169,273	89,774	15,872	9,115	579,963	277,178
1994/4	--	--	--	--	--	--
Total 1994	--	--	--	--	--	--

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



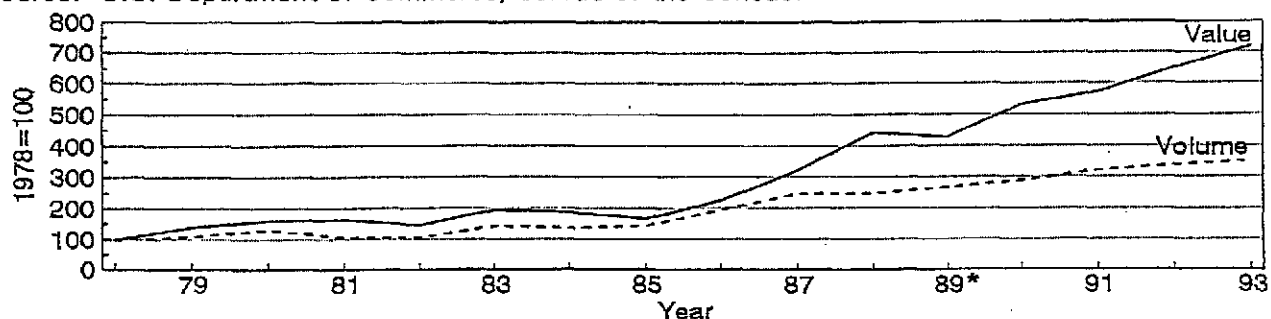
Volume and value index of all U.S. hardwood lumber exports, 1978-1993.

Table 17.--Volume and value of U.S. hardwood lumber exports, by region, 1989-94  
(Cubic meters and thousands of dollars, f.a.s.)

Year/qtr.	Canada		Central & South America and Caribbean		Western Europe	
	Volume	Value	Volume	Value	Volume	Value
1989*	431,356	113,452	116,101	28,409	522,108	253,812
1990	547,941	198,767	89,427	26,960	653,309	313,550
1991	465,152	166,462	106,483	33,082	771,827	368,731
1992	602,457	195,976	129,753	43,497	801,865	431,696
1993/1	171,286	59,484	26,332	11,003	183,405	107,624
1993/2	171,264	59,477	28,947	11,657	190,661	114,236
1993/3	166,519	57,315	36,460	14,221	174,045	103,846
1993/4	193,571	60,289	32,885	12,618	178,665	104,076
Total 1993	702,640	236,565	124,624	49,493	726,776	429,784
1994/1	190,611	62,460	35,769	13,824	195,916	114,231
1994/2	195,396	65,955	30,296	12,006	202,904	118,414
1994/3	184,557	60,894	40,352	15,395	169,909	101,999
1994/4	--	--	--	--	--	--
Total 1994	--	--	--	--	--	--

Year/qtr.	Asia		All other		Total	
	Volume	Value	Volume	Value	Volume	Value
1989*	600,025	221,410	46,814	17,071	1,716,404	634,156
1990	540,412	222,899	60,584	27,996	1,891,673	790,167
1991	651,148	257,188	56,856	24,500	2,051,466	849,963
1992	583,845	266,199	51,019	26,022	2,168,939	963,388
1993/1	144,483	73,022	12,444	6,846	537,950	257,982
1993/2	171,815	85,331	13,062	7,254	575,749	277,948
1993/3	179,920	90,142	15,651	8,867	572,595	274,387
1993/4	145,574	73,905	9,938	5,549	560,633	256,439
Total 1993	641,792	322,400	51,095	28,518	2,246,927	1,066,755
1994/1	142,038	72,107	12,594	6,882	576,928	269,497
1994/2	169,857	86,763	8,585	5,003	607,038	288,135
1994/3	169,273	89,774	15,872	9,115	579,963	277,178
1994/4	--	--	--	--	--	--
Total 1994	--	--	--	--	--	--

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



Volume and value index of all U.S. hardwood lumber exports, 1978-1993.

\* 1989 volume adjusted for Europe and Asia because of known errors. See Luppold, 1995.

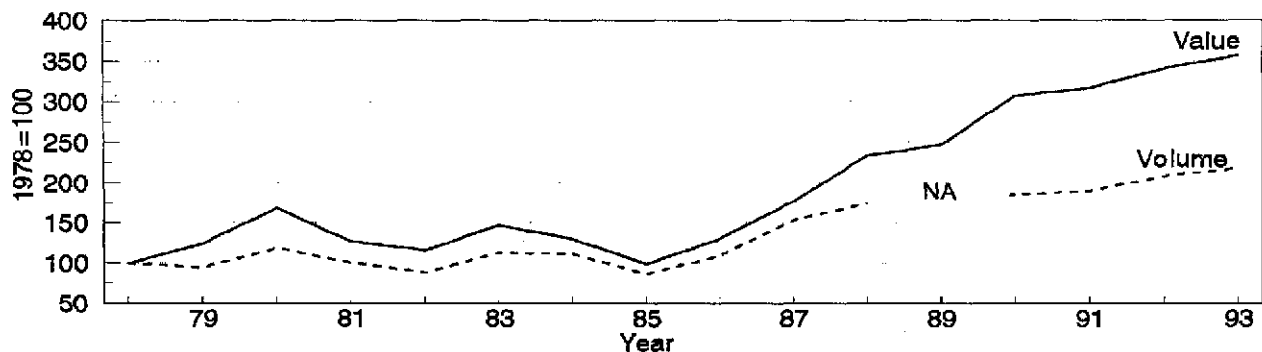
**Table 18.--Volume and value of U.S. hardwood veneer exports, by region, 1989-94**  
(Million square meters and thousands of dollars, f.a.s.)

Year/qtr.	Canada		Central & South America and Caribbean		Western Europe	
	Volume	Value	Volume	Value	Volume	Value
1989	NA	15,141	NA	2,645	NA	95,711
1990	20.0	25,096	2.5	3,319	103.4	125,366
1991	15.5	19,751	3.5	4,915	107.6	128,815
1992	20.8	23,626	4.4	6,410	116.2	140,176
1993/1	6.5	7,196	1.2	1,608	25.1	30,665
1993/2	7.1	8,122	1.5	2,046	28.3	34,537
1993/3	5.3	5,937	2.9	3,853	23.2	28,752
1993/4	6.1	7,462	3.4	4,803	30.1	35,141
Total 1993	25.0	28,719	9.0	12,312	106.7	129,095
1994/1	7.1	9,990	2.6	3,447	30.2	35,688
1994/2	8.5	10,864	1.7	2,353	35.0	43,052
1994/3	7.1	9,466	2.6	3,491	29.0	37,591
1994/4	--	--	--	--	--	--
Total 1994	--	--	--	--	--	--

Year/qtr.	Asia		All other		Total	
	Volume	Value	Volume	Value	Volume	Value
1989	NA	37,363	NA	4,879	NA	155,742
1990	27.0	35,842	3.3	4,074	156.2	93,698
1991	28.9	41,458	4.7	5,319	160.3	200,262
1992	27.9	38,264	5.7	6,974	175.1	215,449
1993/1	8.7	11,472	1.1	1,404	42.6	52,350
1993/2	8.7	11,323	1.8	2,578	47.4	58,605
1993/3	10.0	12,959	1.1	1,137	42.6	52,640
1993/4	9.9	12,416	1.7	2,180	51.2	62,001
Total 1993	37.3	48,175	5.8	7,296	183.7	225,595
1994/1	12.2	13,377	1.7	1,758	53.8	64,262
1994/2	12.0	14,285	2.0	2,345	59.1	72,900
1994/3	14.4	16,554	2.1	2,539	55.2	69,637
1994/4	--	--	--	--	--	--
Total 1994	--	--	--	--	--	--

NA - Not available.

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



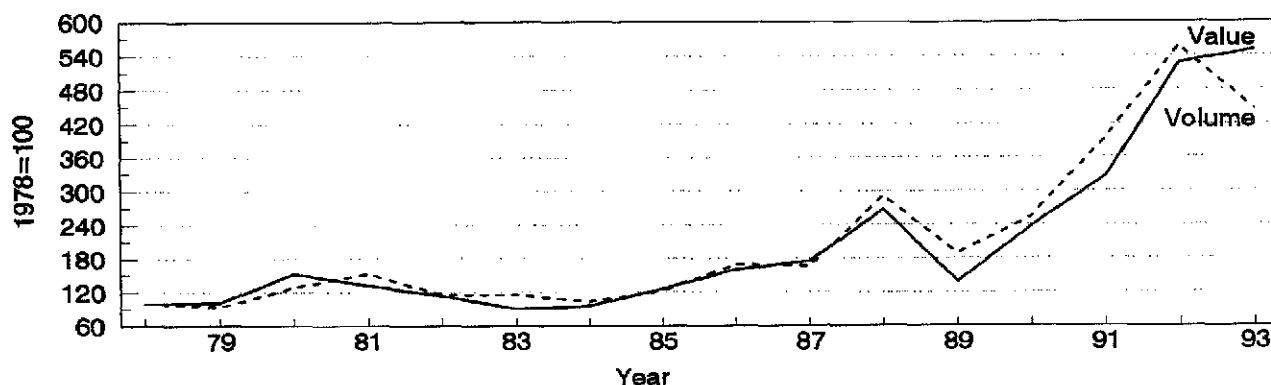
Volume and value index of all U.S. hardwood veneer exports, 1978-1993.

**Table 19.--Volume and value of U.S. hardwood plywood exports, by region, 1989-94**  
(Cubic meters and thousands of dollars, f.a.s.)

Year/qtr.	Canada		Central & South America and Caribbean		Western Europe	
	Volume	Value	Volume	Value	Volume	Value
1989	24,226	4,644	23,749	4,844	7,888	1,146
1990	31,623	10,552	42,033	7,533	2,947	671
1991	51,896	15,200	57,296	9,790	4,099	923
1992	64,046	19,245	73,338	14,301	30,299	8,212
1993/1	21,863	7,334	8,195	1,808	13,937	4,059
1993/2	12,137	4,342	7,476	2,066	3,455	1,652
1993/3	11,670	3,867	9,370	2,483	1,187	1,394
1993/4	10,077	3,495	6,261	1,813	3,004	1,574
Total 1993	55,747	19,041	31,302	8,172	21,583	8,678
1994/1	13,415	4,278	7,734	2,570	915	852
1994/2	12,511	3,693	11,010	2,776	738	679
1994/3	14,410	4,145	10,875	2,929	119	44
1994/4	--	--	--	--	--	--
Total 1994	--	--	--	--	--	--

Year/qtr.	Asia		All other		Total	
	Volume	Value	Volume	Value	Volume	Value
1989	2,587	689	1,254	231	59,704	11,553
1990	2,987	716	710	262	80,300	19,732
1991	10,571	962	917	222	124,779	27,097
1992	6,964	1,596	1,102	383	175,749	43,737
1993/1	7,034	1,747	185	107	51,214	15,055
1993/2	9,060	2,659	179	154	32,307	10,873
1993/3	9,442	2,739	122	80	31,791	10,566
1993/4	6,149	2,223	74	22	25,565	9,125
Total 1993	31,685	9,369	560	363	140,877	45,621
1994/1	6,998	2,837	87	25	29,149	10,562
1994/2	4,056	1,972	282	81	28,597	9,198
1994/3	4,707	2,090	665	193	30,776	9,403
1994/4	--	--	--	--	--	--
Total 1994	--	--	--	--	--	--

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



Volume and value index of all U.S. hardwood plywood exports, 1978-1993.

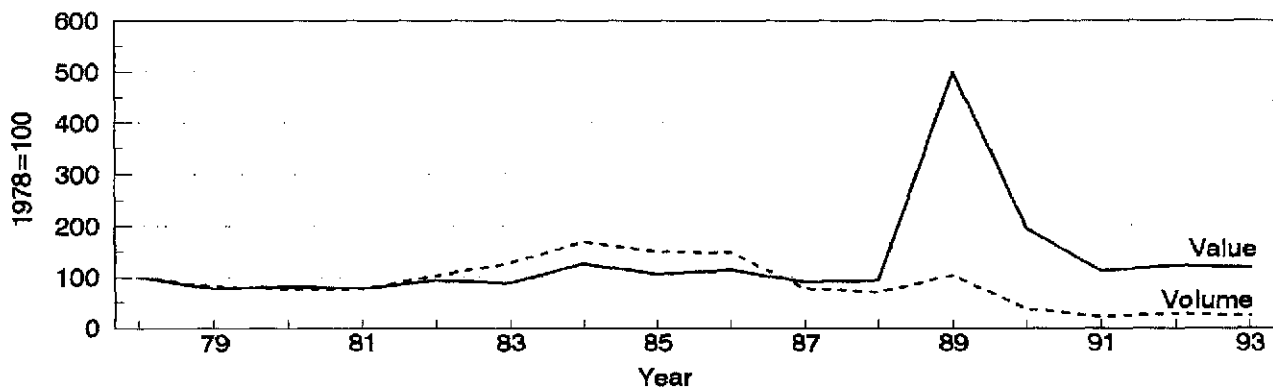


**Table 20.--Volume and value of U.S. hardwood log imports, by region, 1989-94**  
(Cubic meters and thousands of dollars, c.i.f.)

Year/qtr.	Canada		Central & South America and Caribbean		Africa	
	Volume	Value	Volume	Value	Volume	Value
1989	36,293	4,880	8,648	2,805	7,403	1,994
1990	15,138	1,971	756	384	4,332	1,507
1991	10,275	1,439	1,550	228	1,103	419
1992	16,069	2,242	238	105	1,968	787
1993/1	3,178	440	1	10	360	129
1993/2	2,809	445	24	11	473	181
1993/3	4,512	658	283	113	219	97
1993/4	4,105	600	382	343	357	133
Total 1993	14,604	2,143	690	476	1,409	540
1994/1	4,587	633	793	278	105	40
1994/2	4,086	740	84	82	1,031	345
1994/3	7,807	1,098	327	141	500	163
1994/4	--	--	--	--	--	--
Total 1994	--	--	--	--	--	--

Year/qtr.	Asia and Pacific Ocean		All other		Total	
	Volume	Value	Volume	Value	Volume	Value
1989	28,318	9,958	2,519	583	83,181	20,220
1990	7,913	3,466	1,646	547	27,785	7,875
1991	3,681	1,940	1,006	486	17,615	4,515
1992	1,987	1,237	1,131	599	21,393	4,970
1993/1	289	151	414	182	4,242	913
1993/2	35	27	255	218	3,596	882
1993/3	1,056	561	185	129	6,255	1,557
1993/4	632	366	54	44	5,530	1,485
Total 1993	2,012	1,106	908	573	19,623	4,837
1994/1	453	309	83	80	6,021	1,340
1994/2	1,485	726	349	259	7,035	2,152
1994/3	134	88	102	84	8,870	1,575
1994/4	--	--	--	--	--	--
Total 1994	--	--	--	--	--	--

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



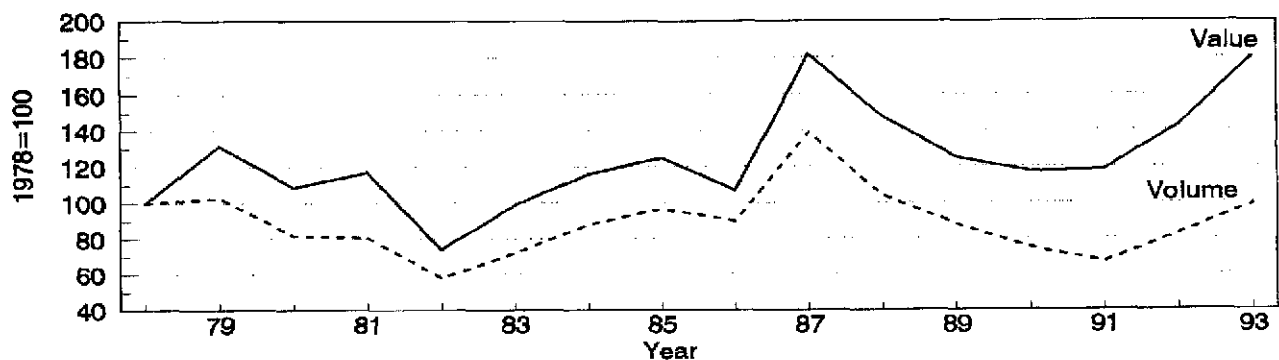
Volume and value index of all U.S. hardwood log imports, 1978-1993.

**Table 21.--Volume and value of U.S. hardwood lumber imports, by region, 1989-94**  
(Cubic meters and thousands of dollars, c.i.f.)

Year/qtr.	Canada		Central & South America and Caribbean		Africa	
	Volume	Value	Volume	Value	Volume	Value
1989	286.7	47,007	262.1	73,115	74.8	3,317
1990	269.5	48,395	203.1	70,072	7.1	4,140
1991	252.5	45,763	182.4	81,589	4.9	2,841
1992	361.5	75,071	181.8	79,136	6.1	3,658
1993/1	119.4	26,691	44.6	20,270	1.1	672
1993/2	126.3	29,117	36.9	15,637	1.7	1,335
1993/3	114.9	26,806	44.6	18,618	1.4	929
1993/4	120.6	27,875	59.7	31,845	1.4	988
Total 1993	481.2	110,490	185.7	86,367	5.6	3,924
1994/1	127.4	31,585	47.7	24,846	1.8	984
1994/2	153.3	36,143	58.3	26,346	2.1	1,185
1994/3	130.6	31,262	54.4	27,489	6.9	1,981
1994/4	--	--	--	--	--	--
Total 1994	--	--	--	--	--	--

Year/qtr.	Asia and Pacific Ocean		All other		Total	
	Volume	Value	Volume	Value	Volume	Value
1989	110.4	49,955	103.9	2,213	837.9	175,608
1990	78.7	40,134	10.4	2,091	568.8	164,835
1991	64.4	32,583	6.4	3,253	510.6	166,030
1992	75.0	40,929	3.9	2,051	628.2	200,843
1993/1	23.6	12,711	1.0	908	189.7	61,251
1993/2	18.4	10,763	1.1	1,086	184.4	57,939
1993/3	16.1	11,855	1.1	771	178.0	58,975
1993/4	16.5	13,222	4.2	1,025	202.3	74,953
Total 1993	74.6	48,549	7.4	3,790	754.5	253,117
1994/1	22.0	15,095	1.9	940	200.8	73,450
1994/2	22.2	16,184	4.8	1,769	240.6	81,627
1994/3	25.4	15,571	3.3	2,059	220.6	78,363
1994/4	--	--	--	--	--	--
Total 1994	--	--	--	--	--	--

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



Volume and value index of all U.S. hardwood lumber imports, 1978-1993.

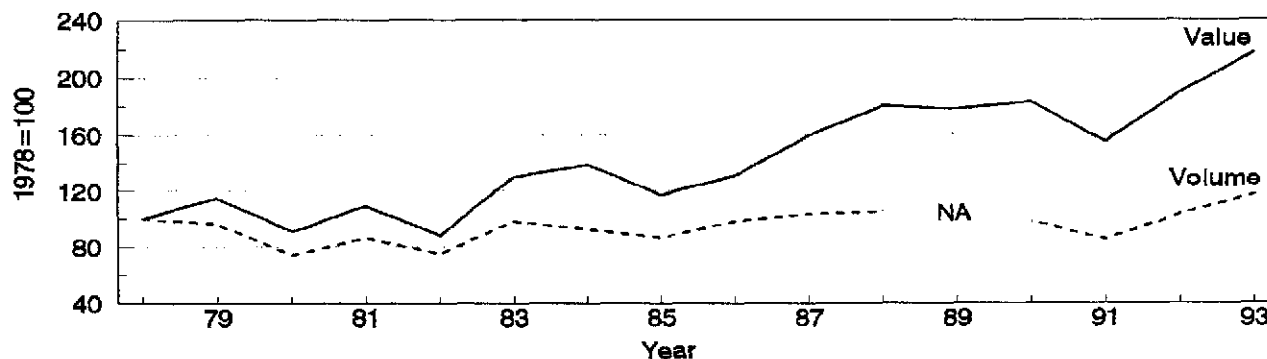
**Table 22.--Volume and value of U.S. hardwood veneer imports, by region, 1989-94**  
(Million square meters and thousands of dollars, c.i.f.)

Year/qtr.	Canada		Central & South America and Caribbean		Africa	
	Volume	Value	Volume	Value	Volume	Value
1989	NA	86,845	NA	28,916	NA	4,365
1990	84.0	92,166	29.8	30,640	3.0	3,868
1991	78.2	81,276	22.5	24,815	2.5	4,844
1992	92.7	100,379	33.9	35,944	2.1	2,322
1993/1	28.5	28,930	9.5	9,854	0.5	421
1993/2	28.8	30,234	12.6	14,650	1.0	1,331
1993/3	24.6	25,953	11.9	14,568	0.9	960
1993/4	25.7	26,743	8.0	8,989	1.2	1,964
Total 1993	107.6	111,860	42.1	48,057	3.6	4,677
1994/1	32.0	33,585	8.3	7,925	0.5	952
1994/2	29.2	33,936	10.8	12,954	1.1	1,564
1994/3	24.5	29,734	9.2	9,249	0.7	1,588
1994/4	--	--	--	--	--	--
Total 1994	--	--	--	--	--	--

Year/qtr.	Asia and Pacific Ocean		All other		Total	
	Volume	Value	Volume	Value	Volume	Value
1989	NA	25,669	NA	236,171	NA	169,414
1990	23.3	23,406	8.7	231,757	148.7	173,255
1991	18.4	16,367	7	198,090	128.6	147,110
1992	19.4	17,438	7.5	231,454	155.6	179,226
1993/1	3.8	3,919	1.7	4,456	44	47,584
1993/2	3.6	3,429	2.3	6,798	48.4	56,441
1993/3	3.6	4,269	2.4	6,697	43.3	52,444
1993/4	3.7	4,892	2.5	7,061	41.2	49,648
Total 1993	14.7	16,509	8.9	25,013	176.9	206,117
1994/1	3.3	4,282	2.6	7,423	46.7	54,167
1994/2	2	2,781	4.4	9,149	47.6	60,385
1994/3	2.3	3,139	3.7	8,658	40.4	52,369
1994/4	--	--	--	--	--	--
Total 1994	--	--	--	--	--	--

NA - Not available.

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



Volume and value index of all U.S. hardwood veneer imports, 1978-1993.

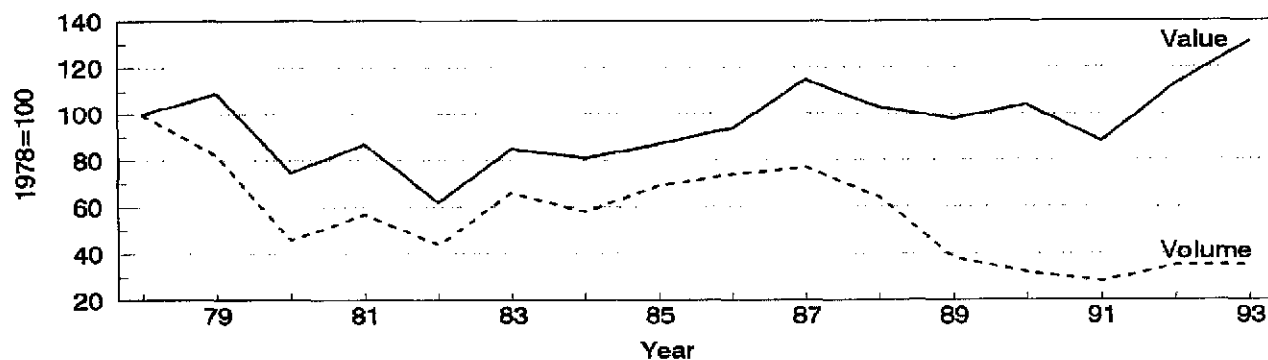
**Table 23.--Volume and value of U.S. hardwood plywood imports, by region, 1989-94**  
(Cubic meters and thousands of dollars, c.i.f.)

Year/qtr.	Canada		Central & South America and Caribbean		Africa	
	Volume	Value	Volume	Value	Volume	Value
1989	105,125	35,349	92,316	29,933	106	50
1990	88,656	35,112	124,623	41,642	0	0
1991	88,755	38,121	121,000	43,468	14	9
1992	113,359	48,758	198,026	67,597	34	12
1993/1	30,965	13,632	45,610	15,833	0	0
1993/2	32,040	15,778	62,549	22,175	0	0
1993/3	28,793	14,271	103,927	42,874	104	58
1993/4	31,658	16,379	86,409	35,005	154	83
Total 1993	123,456	60,060	298,495	115,885	258	141
1994/1	34,982	16,435	94,947	36,786	391	188
1994/2	42,005	19,539	105,436	41,923	0	0
1994/3	36,874	16,877	86,849	31,608	14	8
1994/4	--	--	--	--	--	--
Total 1994	--	--	--	--	--	--

Year/qtr.	Asia and Pacific Ocean		All other		Total	
	Volume	Value	Volume	Value	Volume	Value
1989	1,393,283	467,064	79,548	19,343	1,670,378	551,740
1990	1,154,248	484,731	54,305	23,606	1,421,832	585,092
1991	962,719	397,398	54,824	16,150	1,227,312	495,148
1992	1,174,221	501,774	38,845	19,231	1,524,485	637,374
1993/1	269,623	114,020	12,989	7,249	359,187	150,734
1993/2	271,517	122,809	13,769	5,286	379,875	166,047
1993/3	253,809	130,258	12,846	7,611	399,479	195,073
1993/4	261,371	166,919	15,805	8,249	395,397	226,634
Total 1993	1,056,320	534,010	55,409	28,393	1,533,938	738,487
1994/1	193,959	122,242	24,180	10,270	348,459	185,928
1994/2	264,019	156,199	23,479	9,888	434,939	227,550
1994/3	225,465	133,390	25,672	10,463	374,874	192,347
1994/4	--	--	--	--	--	--
Total 1994	--	--	--	--	--	--

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

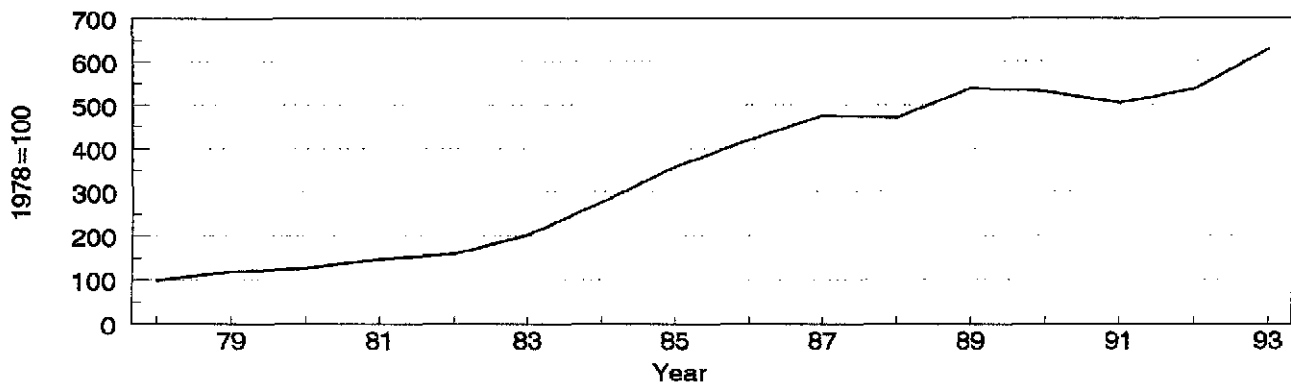


Volume and value index of all U.S. hardwood plywood imports, 1978-1993.

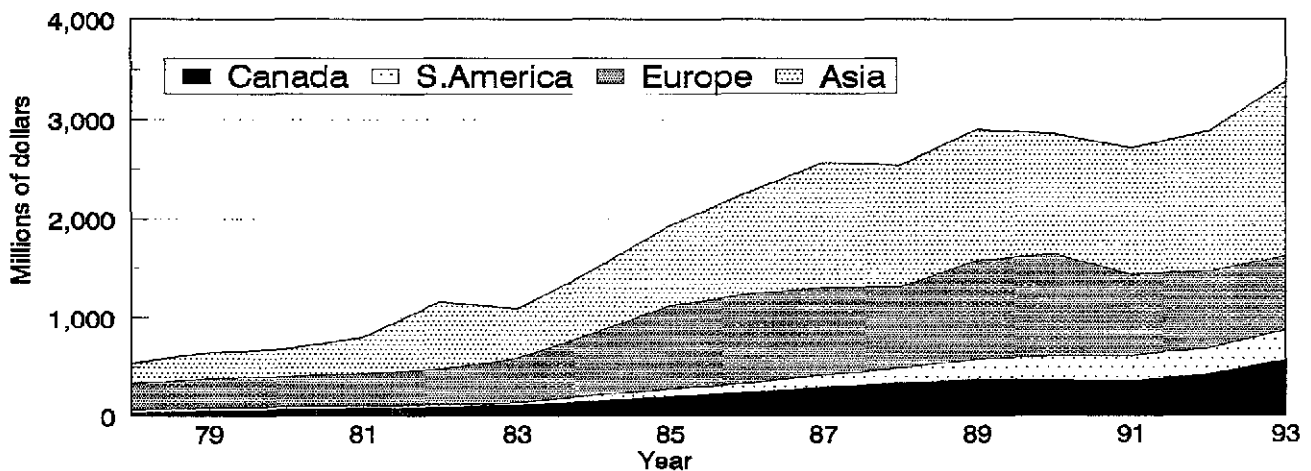
**Table 24.--Value of U.S. wood furniture imports, by region, 1989-94**  
(Thousands of dollars, c.i.f.)

Year/qtr.	Canada	Caribbean, South, and Central America	Europe	Asia, Middle east, and Pacific	All other	Total
1989	364,680	210,610	1,001,587	1,320,670	4,587	2,902,131
1990	358,934	244,751	1,031,711	1,213,362	5,334	2,854,098
1991	346,139	256,841	833,211	1,271,590	4,811	2,712,594
1992	412,880	269,361	780,451	1,412,052	5,740	2,884,347
1993/1	114,512	66,340	167,735	379,115	1,739	729,441
1993/2	128,548	75,188	185,753	412,481	1,879	803,848
1993/3	140,291	78,464	195,186	462,881	2,561	879,382
1993/4	179,974	81,408	206,428	497,205	3,309	968,323
Total 1993	563,326	301,397	755,104	1,751,680	9,488	3,380,993
1994/1	160,802	75,326	196,852	456,047	2,527	891,554
1994/2	193,041	86,534	237,993	458,252	2,966	978,785
1994/3	185,180	93,829	239,385	521,222	4,617	1,044,236
1994/4	--	--	--	--	--	--
Total 1994	--	--	--	--	--	--

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



Value index of U.S. wood furniture imports, 1978-1993.



Value of U.S. wood furniture imports, by region, 1978-1993.

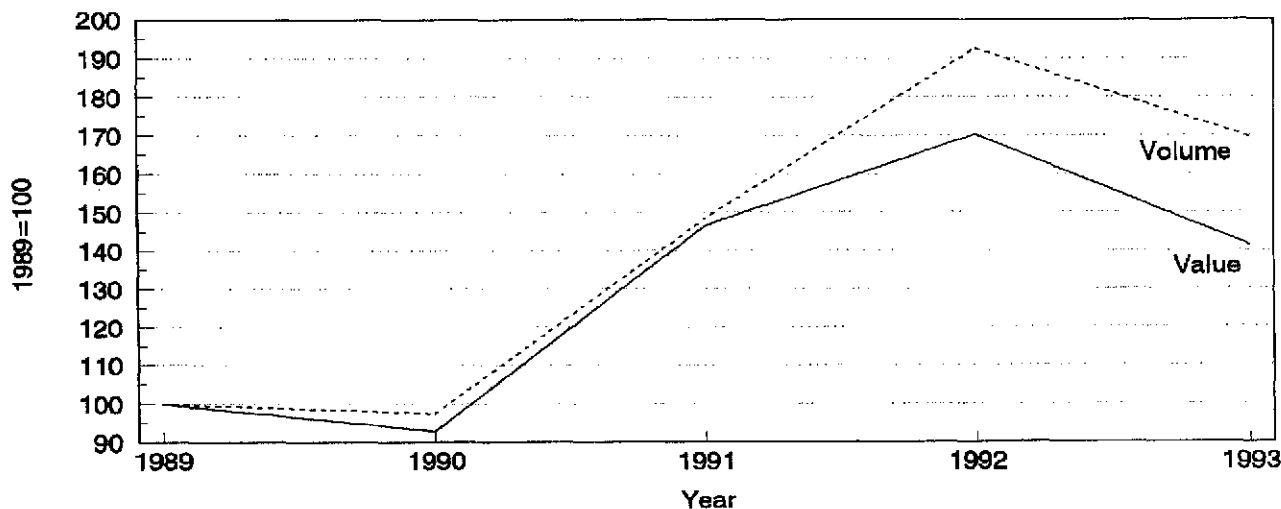
**Table 25.--Volume and value of U.S. exports of nonconiferous chips, by region, 1989-94**  
(Tons and thousands of dollars, f.a.s.)

Year/qtr.	Western Europe		Canada		Japan		Mexico	
	Volume	Value	Volume	Value	Volume	Value	Volume	Value
1989	1,273	64	5,346	268	1,406,411	134,099	84,564	4,374
1990	1,035	52	42,495	1,974	1,336,612	125,500	37,451	1,764
1991	334	20	107,632	4,225	2,178,574	214,233	0	0
1992	1,519	110	148,519	6,256	2,565,423	234,189	18,120	1,224
1993/1	11	28	32,725	1,299	616,460	47,028	0	0
1993/2	22,744	1,887	34,994	1,414	597,214	48,622	0	0
1993/3	120	8	42,462	1,682	515,227	47,096	87	6
1993/4	148	20	59,962	2,280	725,728	56,499	0	0
Total 1993	23,023	1,943	170,143	6,676	2,454,629	199,244	87	6
1994/1	390	71	61,127	2,342	547,846	49,473	1,200	43
1994/2	91	206	67,760	2,607	611,037	53,033	242	17
1994/3	28	83	62,876	2,442	744,458	62,185	0	0
1994/4	--	--	--	--	--	--	--	--
Total 1994	--	--	--	--	--	--	--	--

Year/qtr.	Taiwan		South Korea		All other		Total	
	Volume	Value	Volume	Value	Volume	Value	Volume	Value
1989	133,277	14,502	81,636	8,522	699	35	1,713,206	161,865
1990	179,993	14,624	69,856	6,347	1,097	47	1,668,539	150,309
1991	190,600	14,141	63,756	4,621	1,738	105	2,542,634	237,345
1992	326,060	13,221	235,992	20,237	2,984	333	3,298,617	275,568
1993/1	0	0	20,575	1,871	246	59	670,017	50,284
1993/2	8	13	46,196	2,650	40	32	701,196	54,618
1993/3	14	13	101,774	8,208	0	0	659,684	57,014
1993/4	0	0	86,263	6,138	4,146	2,038	876,247	66,976
Total 1993	22	26	254,808	18,867	4,432	2,129	2,907,144	228,892
1994/1	0	0	115,784	9,470	627	69	726,974	61,466
1994/2	0	0	40,710	4,424	10	3	719,850	60,290
1994/3	0	0	41,962	4,794	418	25	849,742	69,529
1994/4	--	--	--	--	--	--	--	--
Total 1994	--	--	--	--	--	--	--	--

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



Volume and value index of all U.S. exports of nonconiferous chips, 1989-1993.

## 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 lbs.  
1 metric ton = 2204.623 lbs.

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\* 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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