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Korea, Republic of

Solid Wood Products

Solid Wood Products Annual

2005

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Report Highlights:

Projected wood product consumption for 2005 is 27.4 million cubic meters (round-wood basis), of which 92 percent will be imported. The U.S. usually has about 9 percent of the import market, and is Korea's fifth largest supplier of forest products. Fire and construction code changes, due to become final before the end of 2005, will make it possible for the first time to build multi-story, multi-family wood-frame buildings in Korea. This should result in increased demand for U.S. wood products.

Includes PSD Changes: Yes Includes Trade Matrix: Yes Annual Report Seoul [KS1] [KS]

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SECTION I. SITUATION AND OUTLOOK

Because high world oil prices have dampened prospects for Korean economic growth and due to consumer pessimism about the economy, the Korean Government revised downward its target for GDP growth in 2005 from an initial 5 percent to 4 percent. In the first quarter of 2005, the economy expanded by only 2.7 percent. In 2004, the GDP grew by 4.6 percent due mainly to an increase in exports. Per capita GDP increased from \$12,720 in 2003 to \$14,162 in 2004, principally due to the appreciation of the Korean Won. In October 2004 the government intervened in the housing market to curb speculation. Due to the economic slow down, and government attempts to cool down an overheated housing market, construction starts, which were up slightly in 2004, are expected to be sluggish in 2005.

The Korea Forest Service (KFS) projection for 2005 wood products consumption is 27.4 million cubic meters (CUM) (round-wood basis), composed of 25.1 million CUM of imported wood products and 2.4 million CUM of domestic products. 2005 imports of logs are projected at 6.7 million CUM and imports of lumber and processed wood are projected at 18.4 million CUM (round-wood equivalents). For 2006, domestic round-wood production is forecast at 2.6 million CUM, with softwoods (75 percent) and temperate hardwoods (25 percent) being the dominant species harvested. The Korean Government projects that by the 2030s, with proper management, sustainable domestic production should be able to satisfy more than 50 percent of total domestic demand. Two members of the Korean Plywood Industry, with the support of the Korea Forestry Service, can now produce plywood from domestic larch. Plans exist to expand the use of domestic timber for the production of plywood in the future.

In the first quarter of 2005, imports of wood products declined by 8 percent as compared to a year earlier. Further declines are expected for the remainder of 2005 as well because of slack construction, interiors and furniture demand. Nonetheless, U.S. exports to Korea are expected to remain at 2004 levels due to steady demand for softwood logs used in the construction of high-end buildings.

The Ministry of Construction and Transportation (MOCT) recently announced that effective April 6, 2005, building structure standards would be revised so as to allow the construction of wood-frame multi-story, multi-family houses, as well as other buildings such as hospitals, restaurants and schools. The revised regulations increase the height limitation for wood-frame buildings to 18 meters, with the maximum height of eaves set at 15 meters. Revisions, expected to be in place before the end of 2005, to MOCT fire codes (KS1611-1) for wooden structures, will also allow for taller wooden structures. These revisions are currently under the review of the Legislative Administration Agency. Due to these two important code changes, it will be possible to construct multi-family wood houses up to five stories tall. As a result of these code changes, several builders and developers are preparing to construct multi-story, multi-family wood houses, and imports of glulam and other wood products are expected to increase.

The Korean National Plant Quarantine Service (NPQS) announced that after June 1, 2005, it would enforce International Plant Protection Convention (IPPC) rules for imported softwood packaging materials (SWPM). The products affected include pallets, crates, wooden boxes, etc., which are used for import/export packaging.

Despite near-term weak demand, the import volume of wood products is expected to increase over the next three to five years in tandem with expectations that the Korean economy and construction will expand. One area expected to grow is the repair and remodeling market for existing buildings. Regulations to curb the demolition of older apartment complexes will encourage the repair and remodeling of existing buildings.

Note: For the purposes of this report, FAS/Seoul corrected obvious errors in official Korean Customs Service data.

SSECTION II. STATISTICAL TABLES

Strategic Indicator Tables

FOREST PRODUCT

STRATEGIC INDICATOR TABLES FOR (KOREA)

(Please do not add/delete rows or columns -- note and other info must be added below row 110 -- thank you!)

CONSTRUCTION MARKET

Country: South Korea	Previous	Current	Following
Report Year: 2005	Calendar Year	Calendar Year	Calendar Year
Total Housing Starts (thousand units)	464	500	500
of which, wood frame (thousand units)	2	2	2
of which, steel, masonry, other materials (thousand units)	462	498	498
of total starts, residential (thousand units)	464	500	500
of residential, single family (thousand units)	34	30	30
of residential, multi-family (thousand units)	430	470	470
of total starts, commercial (thousand units)	464	500	500
Total Value of Commercial Construction Market (\$US mil)	82,692	87,845	90,000
million)	11,630	14,000	15,500

FURNITURE & INTERIORS MARKET

Country: South Korea	Previous	Current	Following
Report Year: 2005	Calendar Year	Calendar Year	Calendar Year
Total Housing Starts (number of units)	463,800	500,000	500,000
Total Number of Households	15,538,741	15,788,962	15,988,599
Furniture Production (\$US million)	4,400	4,500	5,000
Total Furniture Imports (\$US million)	736	900	1,000
Total Furniture Exports (\$US million)	384	500	600
Interiors Market Size (\$US million)	5,245	5,929	6,500

MATERIAL HANDLING MARKET

Country: South Korea	Previous	Current	Following	
Report Year: 2005	Calendar Year	Calendar Year	Calendar Year	
Total Value of Industrial Output (\$US million)	500	600	620	
New Pallet Production (million units)	11	12	13	

FOREST AREA

Country: South Korea	Previous	Current	Following
Report Year: 2005	Calendar Year	Calendar Year	Calendar Year
Total Land Area (million hectares)	<u>10</u>	<u>10</u>	<u>10</u>
Total Forest Area (million hectares)	6	6	6
of which, Commercial ('000 hectares)	4,910	4,920	4,930
of commercial, tropical hardwood ('000 hectares)	0	0	0
of commercial, temperate hardwood ('000 hectares)	1,660	1,670	1,680
of commercial, softwood ('000 hectares)	2,719	2,700	2,700
Forest Type			
of which, virgin ('000 hectares)	3,598	3,590	3,580
of which, plantation ('000 hectares)	2,300	2,300	2,300
of which, other commercial (regrowth) ('000 hectares)	500	500	500
Total Volume of Standing Timber (thousand cubic meters)	468,167	488,467	510,000
of which, Commercial Timber ('000 cum)	366,014	380,000	390,000
Annual Timber Removal ('000 cum) 1/	2,037	2,350	2,600
Annual Timber Growth Rate ('000 cum)	20,000	20,000	20,000
Annual Allowable Cut ('000 cum)	1,300	1,300	1,300

1/ If Removals exceeds growth rate, analyze impact in text.

WOOD PRODUCTS SUBSIDIES

Country: South Korea	Previous	Current	Following
Year of Report: 2005	Calendar Year	Calendar Year	Calendar Year
Total Solid Wood Export Subsidy Outlay (\$US million)	none	none	none
Is there a ban on the export of logs, lumber, or veneer? 1/	none	none	none
Are there export taxes (yes/no)? 2/	none	none	none
Total Wood Production Subsidy (\$US million)	none	none	none
Scope (thousands of hectares)	none	none	none
Are there other wood products export expansion activities?			
1/	none	none	none

1/ If yes, describe in report.

2/ If yes, identify in Tariff and Tax Strategic Indicator Table.

		Tariff	Tariff	Other		
Country: South Korea	Product	Current	Following	Import	Total Cost	Export
Report Year: 2005	Description 1 /	Year	Year	Taxes/Fees	f Import 2	Tax
4401	Wood Chips, Fuel Wood 3/	2	2	12		na
4403	Roundwood 4/	2	2	12		na
4404	Sticks, etc.	5	5	12		na
4405	Wood Wool	5	5	12		na
4406	Railway Ties	5	5	12		na
4407	Lumber	5	5	12		na
4408	Veneer 5/	5	5	12		na
4409	Finished Lumber	8	8	12		na
4410	Particleboard	8	8	12		na
4411	Fiberboard	8	8	12		na
4412	Plywood 6/	8	8	12		na
4413	Densified Wood	8	8	12		na
4414	Wooden Frames	8	8	12		na
4415	Packing Cases	8	8	12		na
4416	Casks	8	8	12		na
4417	Tools	8	8	12		na
4418	Builders' Joinery	8	8	12		na
4419	Tableware/Kitchenware	8	8	12		na
4420	Wood Marquetry	8	8	12		na
4421	Other Articles of Wood	8	8	12		na
4422	na	na	na	12		na
4423	na	na	na	12		na
4424	na	na	na	12		na
4425	na	na	na	12		na
Pre-fabricated Houses, a subsection under chapter 96		8	8	12		na

 Insert additional lines for Commodity tariff identification should tariffs vary within the four-digit designation for major products exported by the U.S. (e.g., 4412.19: softwood plywood 3%, 4412.XX: other plywood, 9%).
Calculate as tariff plus other import taxes/fees assuming a commodity value of \$100.

3/ Quota tariff reduced to 1 percent for wood chips (for pulp).

4/ The tariff on tropical hardwood logs is 1 percent. Quota tariff for all imported logs is zero.

5/ Quota tariff reduced to 3 percent for veneer thicker than 0.5 mm within 310,000 CUM,

and temperate hardwood veneer thicker than 2 mm within 100,000 CUM.

6/ Adjusted tariff increased to 13 percent for thicker than 6 mm.

Source: Korea Customs Service, FAS/Seoul

PS&D Tables and Trade Matrices

Temperate Hardwood Logs PSD

PSD Table

CountryKorea, Republic ofCommodityTemperate Hardwood Logs1000 CUBIC METERS

Commonly	rempe	асе паг	uwoou	LUYS	1000 COBI	CMETER	5
	2004	Revised	2005	Estimate	2006	Forecast	UOM
U	SDA Official [Estimate [04	A Official [Estimate [D.	A Official [Estimate [N	New]
Market Year Beg	in	01-2004		01-2005		01-2006	MM/YYYY
Production	650	678	700	700	0	750	1000 CUBIC METERS
Imports	220	203	220	200	0	200	1000 CUBIC METERS
					-		

TOTAL SUPPLY	870	881	920	900	0	950 1000 CUBIC METERS
Exports	0	0	0	0	0	0 1000 CUBIC METERS
Domestic Consumption	870	881	920	900	0	950 1000 CUBIC METERS
TOTAL DISTRIBUTION	870	881	920	900	0	950 1000 CUBIC METERS

Import Trade Matrix - Temperate Hardwood Logs

Import Trade Matrix

Country Korea, Republic of							
Commodit		ate Hardwo	od Logs				
Time Period	JAN/DEC	Units:	1,000 CUM				
Imports for:	2003		2004				
U.S.	34	U.S.	32				
Others		Others					
Russia	15	Russia	21				
Papua New Gu	45	Papua New Gu	26				
Solomon Is.	51	Solomon Is.	103				
Malaysia	20	Malaysia	8				
China	2	China	1				
Total for Others	133		159				
Others not Liste	13		12				
Grand Total	180	-	203				

Temperate Hardwood Log Imports From the U.S.

Korea: Temperate Hardwood Log Imports From the U.S.									
	(CUM and US\$ Thousand)								
Species	200	02	20	03	20	04			
	Volume	Value	Volume	Value	Volume	Value			
Oak	910	1,525	3,000	2,022	4,730	3,303			
Ash	646	572	1,460	720	503	777			
Walnut	6,815	6,271	6,148	6,338	3,980	4,112			
Aspen	0	0	50	5	868	176			
Poplar	172	43	472	112	1,240	131			
Maple	13,800	4,534	11,498	4,503	9,960	4,058			
Other	9,540	12,219	11,785	9,558	10,798	7,294			
Total	31,883	25,164	34,413	23,258	32,079	19,851			

Source: Korea Customs Service

Temperate Hardwood Log Imports From the U.S.

Korea: Temperate Hardwood Log Imports From the U.S.									
	(CUM and US\$ Thousand)								
Species	2004 (Ja	an-Mar)	2005 (Ja	an-Mar)					
	Volume	Value	Volume	Value					
Oak	634	1,151	1,120	806					
Ash	92	151	300	128					
Walnut	399	1,188	1,240	1,380					
Aspen	749	152	280	21					
Poplar	158	28	380	40					
Maple	1,041	973	2,580	899					
Other	2,504	1,803	2,522	1,963					
Total	5,577	5,446	8,422	5,237					

PSD Table

Country	Korea,	Republi	c of				
Commodity	Tropica	al Hardw	ood L	ogs	1000 CUBI	C METER	S
	2004	Revised	2005	Estimate	2006	Forecast	UOM
US	SDA Official [Estimate [D/	Official [Estimate [)	A Official [Estimate [New]
Market Year Begi	n	01-2004		01-2005		01-2006	MM/YYYY
Production	0	0	0	0	0	0	1000 CUBIC METERS
Imports	450	447	450	420	0	420	1000 CUBIC METERS
TOTAL SUPPLY	450	447	450	420	0	420	1000 CUBIC METERS
Exports	0	0	0	0	0	0	1000 CUBIC METERS
Domestic Consumption	450	447	450	420	0	420	1000 CUBIC METERS
TOTAL DISTRIBUTION	450	447	450	420	0	420	1000 CUBIC METERS

Import Trade Matrix - Tropical Hardwood Logs

Import Trade Matrix

Country	Korea, Republic of							
Commodit Tropical Hardwood Logs								
Time Period	JAN/DEC	Units:	1,000CUM					
Imports for:	2003		2004					
U.S.	0	U.S.	0					
Others		Others						
Solomon Is.	167	Solomon Is.	171					
Malaysia	125	Malaysia	118					
Papua New Gu	116	Papua New Gu	144					
Total for Others			433					
Others not Liste	26		14					
Grand Total	434		447					

Softwood Logs PSD

PSD Table

Country	Korea,	Republi	c of				
Commodity	Softwo	od Logs		1	000 CUB	C METER	S
	2004	Revised	2005	Estimate	2006	Forecast	UOM
	USDA Official [Estimate [04	Official [Estimate [DA	Official [Estimate [I	New]
Market Year Be	gin	01-2004		01-2005		01-2006	MM/YYYY
Production	1150	1359	1200	1650	0	1850	1000 CUBIC METERS
Imports	6600	5883	6700	5000	0	5000	1000 CUBIC METERS
TOTAL SUPPLY	7750	7242	7900	6650	0	6850	1000 CUBIC METERS
Exports	0	0	0	0	0	0	1000 CUBIC METERS
Domestic Consumpti	on 7750	7242	7900	6650	0	6850	1000 CUBIC METERS
TOTAL DISTRIBUTIO	ON 7750	7242	7900	6650	0	6850	1000 CUBIC METERS

Import Trade Matrix - Softwood Logs

Import Trade Matrix

Country	Korea, Republic of							
Commodit Softwood Logs								
Time Period	JAN/DEC	Units:	1,000CUM					
Imports for:	2003		2004					
U.S.	331	U.S.	460					
Others		Others						
New Zealand	4087	New Zealand	3207					
Russia	1449	Russia	1438					
Australia	526	Australia	471					
Canada	167	Canada	182					
Chile	6	Chile	96					
Total for Others			5394					
Others not Liste	13		29					
Grand Total	6579		5883					

Softwood Log Imports From the U.S.

Korea: Softwood Log Imports From the U.S. (CUM and US\$ Thousand)									
Species	200	•	200	,	200	2004			
	Volume	Value	Volume	Value	Volume	Value			
Cedar	18,000	4,039	9,630	3,409	7,984	2,699			
Douglas Fir	26,000	8,189	30,915	6,743	32,145	8,447			
Hemlock	92,000	30,447	121,170	33,411	220,000	43,912			
Spruce	35,100	10,260	149,002	21,230	174,139	29,760			
Other	23,971	4,086	20,571	5,872	58,204	4,657			
Total	195,071	57,021	331,288	70,665	460,327	89,475			

Source: Korea Customs Service

Softwood Log Imports From the U.S. for Jan – Mar

Korea: Softwood Log Imports From the U.S. for Jan – Mar									
	(CUM and US\$ Thousand)								
Species		2004 (Ja	n-Mar)	2005 (Ja	an-Mar)				
		Volume	Value	Volume	Value				
Cedar		1,115	418	680	311				
Douglas Fir		5,935	1,494	16,440	3,494				
Hemlock		52,100	9,715	48,201	10,407				
Spruce		35,842	6,139	25,930	7,552				
Other		7,013	1,303	1,767	3,943				
Total		102,005	19,069	93,018	22,213				

Source: Korea Customs Service

Value of Logs Imports per Country

Korea: Value of Logs Imports per Country								
		Unit: 1,000	US\$					
Country	2002	2003	2004	2004(1-3)	2005(1-3)			
United States	81,920	94,499	109,619	24,767	27,451			
New Zealand	268,572	276,186	292,739	87,633	61,753			
Russia	100,285	103,507	134,092	35,667	33,308			
Malaysia	25,068	22,145	21,046	5,112	4,867			
PNG	18,129	17,161	20,431	5,616	4,467			
Chile	9,827	490	9,667	5,273	14			
Australia	44,010	35,112	41,412	15,506	11,616			
Solomon Is.	15,638	23,300	32,017	7,899	9,671			
Others	34,024	37,994	63,594	12,000	14,711			
Total	597,473	610,394	704,186	199,473	167,858			

Temperate Hardwood Lumber PSD

PSD Table

Country	Korea,	Republie	c of				
Commodity	Temper	rate Haro	dwood	Lumbe 1	000 CUB	IC METER	S
	2004	Revised	2005	Estimate	2006	Forecast	UOM
US	DA Official [Estimate [0A	Official [Estimate [DA	Official [Estimate [New]
Market Year Begin	1	01-2004		01-2005		01-2006	MM/YYYY
Production	64	59	64	60	0	60	1000 CUBIC METERS
Imports	120	104	120	100	0	100	1000 CUBIC METERS
TOTAL SUPPLY	184	163	184	160	0	160	1000 CUBIC METERS
Exports	5	4	5	5	0	5	1000 CUBIC METERS
Domestic Consumption	179	159	179	155	0	155	1000 CUBIC METERS
TOTAL DISTRIBUTION	184	163	184	160	0	160	1000 CUBIC METERS

Import Trade Matrix - Temperate Hardwood Lumber

Import Trade Matrix

Country	Korea,	Republic of								
Commodit	Commodit Temperate Hardwood Lumber									
Time Period	JAN/DEC	Units:	1,000CUM							
Imports for:	2003		2004							
U.S.	36	U.S.	30							
Others		Others								
China	45	China	37							
Indonesia	13	Indonesia	12							
Canada	8	Canada	4							
Malaysia	7	Malaysia	13							
Total for Others	5 73	<u> </u>	66	l						
Others not Liste		•	8							
		1								
Grand Total	118		104							

Temperate Hardwood Lumber Imports From U.S.

Korea: Temperate Hardwood Lumber Imports From the U.S.										
(CUM and US\$ Thousand)										
Species	200	02	20	03	20	04				
	Volume	Value	Volume	Value	Volume	Value				
Oak	10,970	7,320	8,102	5,881	7,820	5,007				
Maple	11,245	8,596	6,270	5,026	3,508	3,403				
Poplar	963	458	377	192	423	215				
Basswood	510	576	40	32	40	22				
Ash	9,400	4,329	18,304	8,669	16,290	8,384				
Walnut	604	813	695	1,000	588	768				
Other	6,399	4,483	2,065	1,579	1,573	1,278				
Total	40,091	26,575	35,853	22,379	30,242	19,077				

Source: Korea Customs Service

Temperate Hardwood Lumber Imports From the U.S.

Korea: Temperate Hardwood Lumber Imports From the U.S. (CUM and US\$ Thousand)								
Species	2004 (Ja		2005 (Ja	an-Mar)				
	Volume	Value	Volume	Value				
Oak	1,570	1,131	1991	1641				
Maple	840	785	793	769				
Poplar	56	30	117	59				
Basswood	0	0	0	0				
Ash	7,067	2,549	4160	2141				
Walnut	137	157	341	455				
Other	663	510	300	300				
Total	10,333	5,162	7705	5365				

Tropical Hardwood Lumber PSD

PSD Table

Country	Korea,	Republic	c of				
Commodity	Tropica	al Hardw	ood Lu	umber 1	1000 CUBI	C METER	S
	2004	Revised	2005	Estimate	2006	Forecast	UOM
US	SDA Official [Estimate [DA	Official [Estimate [D/	A Official [Estimate [l	New]
Market Year Begin	n	01-2004		01-2005		01-2006	MM/YYYY
Production	116	107	110	90	0	90	1000 CUBIC METERS
Imports	330	273	330	200	0	200	1000 CUBIC METERS
TOTAL SUPPLY	446	380	440	290	0	290	1000 CUBIC METERS
Exports	1	2	1	1	0	1	1000 CUBIC METERS
Domestic Consumption	445	378	439	289	0	289	1000 CUBIC METERS
TOTAL DISTRIBUTION	446	380	440	290	0	290	1000 CUBIC METERS

Import Trade Matrix - Tropical Hardwood Lumber

Import Trade Matrix

Country	Korea, Republic of						
Commodit Tropical Hardwood Lumber							
Time Period	JAN/DEC	Units:	1,000CUM				
Imports for:	2003		2004				
U.S.	0	U.S.	0				
Others		Others					
Indonesia	169	Indonesia	132				
Malaysia	126	Malaysia	125				
Papua New Gu	4	Papua New Gu	4				
Total for Others	299		261				
Others not Liste	8		12				
Grand Total	307	-	273				

PSD Table

Country	Korea,	Republi	c of				
Commodity	Softwo	od Lum	ber	1	000 CUB	IC METER	S
	2004	Revised	2005	Estimate	2006	Forecast	UOM
	USDA Official [Estimate [)/	A Official [Estimate [DA	A Official [Estimate [l	New]
Market Year Be	gin	01-2004		01-2005		01-2006	MM/YYYY
Production	4200	3833	4300	3200	0	3200	1000 CUBIC METERS
Imports	350	398	400	300	0	300	1000 CUBIC METERS
TOTAL SUPPLY	4550	4231	4700	3500	0	3500	1000 CUBIC METERS
Exports	7	10	7	10	0	10	1000 CUBIC METERS
Domestic Consumption	on 4543	4221	4693	3490	0	3490	1000 CUBIC METERS
TOTAL DISTRIBUTIC	N 4550	4231	4700	3500	0	3500	1000 CUBIC METERS

Import Trade Matrix- Softwood Lumber

Import Trade Matrix

Country	Korea, Republic of						
Commodit Softwood Lumber							
Time Period	JAN/DEC	Units:	1,000CUM				
Imports for:	2003		2004				
U.S.	4	U.S.	2				
Others		Others					
Canada	81	Canada	133				
New Zealand	57	New Zealand	58				
Chile	52	Chile	57				
Russia	49	Russia	100				
Brazil	12	Brazil	7				
China	10	China	11				
Sweden	7	Sweden	12				
Total for Others	268		378				
Others not Liste	13		18				
Grand Total	285		398				

Softwood Lumber Imports From the U.S.

Korea: Softwood Lumber Imports From the U.S. (CUM and US\$ Thousand)							
Species	200	`	200	,	200	04	
	Volume	Value	Volume	Value	Volume	Value	
Cedar	1,100	820	81	14	110	28	
Douglas Fir	100	36	98	37	38	25	
Whitewood or Fir	516	226	106	75	307	48	
Spruce	2,435	2,470	2,535	1,967	748	615	
Other	677	677 1,119 900 776 1,100 315					
Total	4,828	4,608	3,720	2,889	2,303	1,031	

Source: Korea Customs Service

Softwood Lumber Imports From the U.S. for Jan – Mar

Korea: Softwood Lumber Imports From the U.S. for Jan – Mar (CUM and US\$ Thousand)						
Species	2004 (Ja	n-Mar)	2005 (Jan-Mar)			
	Volume	Value	Volume	Value		
Cedar	91	21	0	0		
Douglas Fir	38	25	0	0		
Whitewood or Fir	101	16	40	6		
Spruce	631	349	22	100		
Other	266	49	33	24		
Total	1,127	460	99	130		

Source: Korea Customs Service

Value of Lumber Imports per Country

Korea: Value of Lumber Imports per Country							
	(Unit: 1,0	00 US\$)					
Country	2003	2004	2005 (1-3)				
United States	25,414	20,238	5,497				
Malaysia	28,858	32,606	5,680				
Indonesia	61,072	51,142	11,205				
Chile	8,800	10,516	3,943				
China	24,798	22,975	5,977				
New Zealand	7,260	8,834	2,168				
Canada	24,450	35,849	4,994				
Brazil	6,725	4,812	1,420				
Others	18,091	26,960	7,281				
Total	205,468	213,932	48,165				

Veneer PSD

PSD Table								
Country	Ко	rea,	Republ	ic of				
Commodity	На	rdwo	ood Ver	neer		1000 CUB	IC METER	S
		2004	Revised	2005	Estimate	2006	Forecast	UOM
	USDA O	fficial [Estimate [A Official [Estimate [D	A Official [Estimate [New]
Market Year Be	egin		01-2004		01-2005		01-2006	MM/YYYY
Production		0	0	0	0	0	0	1000 CUBIC METERS
Imports		360	303	360	300	0	300	1000 CUBIC METERS
TOTAL SUPPLY		360	303	360	300	0	300	1000 CUBIC METERS
Exports		0	0	0	0	0	0	1000 CUBIC METERS
Domestic Consumpti	on	360	303	360	300	0	300	1000 CUBIC METERS
TOTAL DISTRIBUTIO	ON	360	303	360	300	0	300	1000 CUBIC METERS

Note: Included softwood veneer in import data.

Import Trade Matrix-Veneer

Import Trade Matrix

Country	Korea, Republic of					
Commodit	Hardwo	od Veneer				
Time Period	JAN/DEC	Units:	1,000CUM			
Imports for:	2003		2004			
U.S.	9	U.S.	6			
Others		Others				
Malaysia	236	Malaysia	218			
China	18	China	16			
Papua New Gu	53	Papua New Gu	51			
EU	4	EU	3			
Total for Others	311		288			
Others not Liste	10		9			
Grand Total	330		303			

Note: Included softwood veneer. Source: Korea Customs Service

Value of Veneer Imports per Country

H	Korea: Value of Veneer Imports per Country 1/						
	Ur	nit: 1,000 US\$					
Country	2002	2003	2004	2005 (1-3)			
United States	17,223	12,757	8,136	1,054			
Malaysia	48,662	36,802	38,301	10,966			
Chile	1,104	124	18	0			
Brazil	224	299	265	38			
China	21,101	24,954	24,444	3,925			
EU	11,313	9,079	5,467	650			
Papua New Guinea	5,021	6,269	9,601	3,100			
Canada	2,355	2,739	1,024	302			
Others	5,163	6,383	4,444	1,632			
Total	112,166	99,406	91,682	21,667			

1/ Includes the value of softwood veneers

Other Tables

Economic Growth Rate

Korea: Economic Growth Rate							
(%)							
Item	2003		20	04		2005	
		1/4	2/4	3/4	4/4	1/4	
GDP	3.1	5.3	5.5	4.7	3.3	2.7	
GNI	1.8	4.7	4.8	3.6	2.1	0.5	

Source: Ministry of Finance and Economy

Operation Rate of Wood Manufacturing

8								
Korea: Operation Rate of Wood Manufacturing								
(%, In average)								
Item	2003	2004	2005(1-3)					
All Manufacturing 78.3 80.4 80.0								
Wood Manufacturing								

Note: Operation indicator is 100 in 2000. Source: National Statistical Office

Supply of Domestic Roundwood

eappij er Berne								
	Korea: Supply of Domestic Roundwood							
	(1,000 CUM)							
Year	Pitprops	Pulp	Lumber/Board/Other	Total				
1997	104	367	591	1,062				
1998	110	406	912	1,428				
1999	117	410	1,167	1,694				
2000	112	552	928	1,592				
2001	140	366	1,027	1,533				
2002	58	373	1,174	1,605				
2003	63	449	1,228	1,740				
2004	62	478	1,497	2,037				
2005 1/	46	423	1,881	2,350				

1/ Government projections

Source: Korea Forest Service (KFS)

Domestic Production of Wood Products

Korea: Domestic Production of Wood Products					
	(1,000 CUM)				
Items	2002	2003	2004		
Softwood Lumber	5,045	4,209	3,833		
Tropical Hardwood Lumber	83	148	107		
Temperate Hardwood Lumber	66	53	59		
Sub Total, Lumber	5,194	4,410	3,999		
Plywood	824	834	699		
Fiberboard (MDF)	1,236	1,318	1,584		
Particleboard	728	794	896		
Grand Total	7,982	7,356	7,178		

Source: FAS/Seoul, Korea Wood Panel Association

Supply and Demand of Wood Products

Korea: Supply and Demand of Wood Products							
(Unit: 1,000 CUM on round-wood basis)							
	2002	2003	2004 a/	2005 b/			
Domestic Wood	1,605	1,740	2,037	2,350			
Imported Wood	27,442	25,649	25,174	25,095			
- Log	7,707	6,987	6,582	6,690			
-Processed wood	19,735	18,662	18,592	18,405			
Total Supply	29,047	27,389	27,211	27,445			
Lumber	8,473	7,195	7,152	7,026			
Plywood/Veneer	3,941	4,062	3,466	3,372			
Chips for Pulp	10,671	10,836	11,173	11,350			
Boards	3,553	2,907	2,814	3,201			
Pitprops	58	63	62	46			
Mushrooms	2,351	2,510	2,544	2,450			
Total Demand	29,047	27,389	27,211	27,445			
Self-Sufficiency (%)	5.5	6.4	7.5	8.6			

Source: Korea Forest Service (KFS)

Korea: Value of Domestic Construction Orders By the Type of Construction							
	Korean Won)	1	T				
Sector	2003	2004	Changes (%)				
Building, Subtotal	58,037	51,540	- 11				
- Dwelling	42,662	34,587	- 19				
-Office & Stores	7,811	6,356	- 19				
-Factory & Storage	3,444	5,816	69				
-Public Office 1/	2,801	3,001	7				
-Others	1,319	1,780	35				
Civil Engineering, Subtotal	22,714	24,506	8				
-Forestry Conservancy & Water Control	655	865	32				
-Agriculture & Fisheries	438	339	-23				
-Roads & Bridge	7,669	8,731	14				
-Harbours & Airports	1,985	2,025	2				
-Railways & Track	3,271	3,913	20				
-Water Supply & Sewage	1,558	1,546	- 1				
-Generation of Electricity 2/	3,126	1,792	- 43				
-Land Development 3/	1,841	2,534	38				
- Dams	123	156	27				
- Installation of Machinery	1,192	2,299	93				
-Others	856	306	- 64				
Other Construction, Subtotal	147	542	269				
Grand Total	80,898	76,588	-5				

Value of Domestic Construction Orders By Type of Construction

1/ Includes schools and hospitals

2/ Includes transmission, transformation and distribution

3/ Includes gardens and grounds

Source: National Statistical Office

Building Construction Permits by Structure

		3						
Korea: Building Construction Permits by Structure								
(Floor Area, Thousand Square Meters)								
Year	Total	Ferro-	Brick &	Wooden	Others			
		Concrete	Stone					
1996	113,820	101,940	7,193	131	4,557			
1997	113,374	104,214	5,105	173	3,881			
1998	50,965	46,701	1,889	113	2,263			
1999	72,534	66,192	2,340	142	3,858			
2000	81,059	75,292	2,056	178	3,532			
2001	97,717	91,562	2,056	181	3,919			
2002	138,734	136,222	2,074	171	268			
2003	142,108	139,965	1,759	373	11			
2004	117,461	115,526	1,551	383	1			
2005 (Jan-Mar)	23,621	22,992	457	172	0			

Source: Ministry of Construction and Transportation

Building Construction Permits by Use

Korea: Building Construction Permits by Use								
	(Floor Area, Thousand Square Meters)							
Year	Total	Dwelling	Commercial	Factory	Educational	Other		
		-		_	& Social			
1996	113,820	61,062	26,862	11,921	6,289	7,682		
1997	113,374	62,677	27,918	8,796	6,603	7,379		
1998	50,965	31,156	8,753	2,796	3,983	4,279		
1999	72,534	44,606	11,746	7,824	4,478	3,882		
2000	81,059	41,283	18,882	11,646	5,126	4,121		
2001	97,717	47,856	25,888	43,538	5,534	4,901		
2002	138,734	57,320	49,862	15,366	7,489	8,697		
2003	142,108	62,128	45,809	14,738	7,919	11,513		
2004	117,461	50,099	30,966	14,740	8,860	12,796		
2005 (Jan-Mar)	23,621	7,765	7,708	3,635	1,787	2,728		

Source: Ministry of Construction and Transportation

Housing Starts per Type

Korea: Housing Starts per Type									
	(Unit)								
Year	Total	Apartment	Single Family	Tenement	Row House				
1997	596,435	484,949	52,948	19,219	39,319				
1998	306,031	262,879	23,773	7,363	12,016				
1999	404,715	345,345	33,772	7,640	17,958				
2000	433,488	331,579	34,777	10,242	56,890				
2001	529,854	267,401	49,454	8,592	204,407				
2002	666,541	384,692	53,323	7,963	220,563				
2003	585,382	468,763	42,173	6,265	68,181				
2004	463,800	404,878	34,237	3,697	20,988				
2005 (Jan-Apr) 1/	103,364	91,578	7,584	990	3,212				

1/ MOCT set the 2004 goal for new housing starts at 520,000 units Source: Ministry of Construction and Transportation

Import of Wood Frame Housing per Country

Korea: Import of Wood Frame Housing per Country						
		(Unit: 1,000	OUS\$ on a C	CIF basis)		
Country	2002	2003	2004	2004 (Jan-Mar)	2005 (Jan-Mar)	
United States	2,047	1,300	212	0	434	
Canada	1,882	1,577	1,983	482	249	
Finland	1,914	1,938	776	158	357	
Sweden	240	5	756	26	40	
New Zealand	27	17	0	0	0	
Australia	158	30	240	0	23	
Russia	361	94	92	54	43	
EU 1/	66	81	149	49	127	
Others	93	184	162	11	70	
Total	6,788	5,226	4,370	780	1,343	

1/ Does not include Finland and Sweden, which are listed above. Source: Korea Customs Service

Korea: Furniture Imports by Country (Units: US\$ 1,000)							
Country/Economy	2003	2004	Changes (%)				
USA	33,870	30,722	-9.3				
China	198,450	296,690	49.5 %				
Italy	68,013	61,251	-9.5				
Germany	40,970	34,147	-16.7				
Vietnam	22,275	26,920	20.9				
Japan	24,159	20,178	-16.5				
Malaysia	21,681	14,705	-32.2				
Indonesia	12,823	11,747	-8.4				
Thailand	9,725	11,303	16.2				
France	5,601	5,375	-4.0				
Taiwan	2,764	2,395	-13.4				
Others	52,085	43,421	-16.6				
Total	492,416	559,124	13.5				

Source: Korea Customs Service

Korea: Furniture Exports by Country									
(Units: US\$ 1,000)									
Country	2003	2004	Changes (%)						
USA	39,110	38,557	-1.4						
China	48,658	99,536	104.6						
Japan	50,819	54,219	6.7						
Malaysia	7,152	12,653	75.7						
Mexico	7,347	7,767	5.7						
Uzbekistan	5,010	6,848	36.7						
Philippines	3,121	5,503	76.3						
United Arab Emirates	4,491	5,030	12.0						
Russia	3,334	2,937	-11.9						
Others	46,018	55,878	21.4						
Total	215,060	288,928	34.3						

Value of Total Forest Product Imports

Korea: Value of Total Forest Product Imports							
	· · ·	IS\$ Million (,	1			
Description (H.S. No.)	Fro	om the Wor	ld	From	the United S	States	
	2003	2004	%	2003	2004	%	
Chips (4401)	74	93	+26	7	21	+200	
Logs (4403)	610	704	+15	95	110	+16	
Lumber (4407)	206	214	+4	25	20	- 20	
Veneer (4408)	99	92	-2	13	8	- 38	
Finished Lumber (4409)	38	43	+13	0.8	1	+56	
Particleboard (4410)	78	121	+55	1	2	+50	
Fiberboard (4411)	109	74	- 32	0.4	0.4	0	
Plywood (4412)	417	397	- 5	1.3	0.6	- 54	
Door and Windows (4418)	36	27	- 25	2.8	2	-29	
Other Articles of Wood	103	102	- 1	1.7	2	-18	
Total	1,770	1,867	+5	148	167	+13	

Source: Korea Customs Service

Value of Total Forest Product Imports for Jan- Mar

Korea: Value of Total Forest Product Imports for Jan- Mar									
	(US\$ Million CIF)								
Description (H.S. No.)	Fro	m the Worl	d	From	the United S	tates			
	2004	2005	%	2004	2005	%			
Chips (4401)	23	28	+22	4.1	3.4	- 17			
Logs (4403)	199	168	- 16	25	27	+8			
Lumber (4407)	54	48	- 11	5.6	5.5	-2			
Veneer (4408)	23	22	- 4	2.7	1.1	- 59			
Finished Lumber (4409)	8.7	9	+3	0.3	0.1	- 67			
Particleboard (4410)	27	25	- 7	0.7	1.8	+157			
Fiberboard (4411)	21	17	- 19	0.04	0.3	+650			
Plywood (4412)	108	107	- 1	0.1	0.08	- 20			
Doors and Windows (4418)	6.7	4	- 40	0.3	0.3	0			
Other Articles of Wood	25.6	28	+9	0.16	0.42	+162			
Total	496	456	-8	39	40	+3			

Volume of Forest Product Imports

Korea: Volume of Forest Product Imports											
(1,000 CUM)											
Description (H.S. No.)	F	rom the Wo	orld	From the United States							
	2002	2003	2004	2002	2003	2004					
Chips (4401) 1/	868	969	1039	131	82	224					
Logs (4403)	8,051	7,193	6534	227	366	493					
Lumber (4407)	785	710	775	45	40	33					
Veneer (4408)	390	333	303	10	9	6					
Finished Lumber (4409) 1/	36	42	43	0.2	0.3	0.4					
Particleboard (4410)	1,000	681	867	1	9	17					
Fiberboard (4411)	807	582	343	13	1	-					
Plywood (4412)	1,441	1,465	1260	-	1	-					
Doors and Windows (4418) 1/	28	23	18	1	0.1	0.4					

1/ 1,000 Metric Tons

Note: FAS/Seoul readjusted the number of logs and lumber based on KCS statistics. Source: Korea Customs Service

Imports of Wood Products by Country

Korea: Imports of Wood Products by Country (Million US\$, percent)										
Country	2002		· · · · · · · · · · · · · · · · · · ·	03	2004					
-	Value	Share	Value	Share	Value	Share				
USA	151	8.3	148	8.4	167	8.9				
Indonesia	308	16.9	290	16.4	235	12.6				
Malaysia	252	13.8	244	13.8	249	13.3				
New Zealand	287	15.7	295	16.7	309	16.6				
China	229	12.5	226	12.8	259	13.9				
Russia	109	6.0	112	6.3	147	7.9				
Australia	84	4.6	69	3.9	72	3.9				
Canada	67	3.7	89	5.0	90	4.8				
Papua New Guinea	24	1.3	24	1.4	30	1.6				
Thailand	40	2.2	26	1.5	47	2.5				
EU	97	5.3	108	6.1	122	6.5				
Chile	26	1.4	16	0.9	28	1.5				
Brazil	4	0.2	15	0.8	15	0.8				
Others	131	7.2	108	6.1	97	5.2				
TOTAL	1,826	100	1,770	100	1,867	100				

SECTION III. NARRATIVE ON SUPPLY AND DEMAND, POLICY & MARKETING

PRODUCTION

Forest Situation/Outlook

There are about 6.406 million hectares (HA), of forests in Korea. This accounts for 64.3 percent of Korea's total area, which is 9.96 million HA (an area about the size of Indiana). Korean forests are located predominantly in the cool-temperate zone with a small section in the warm-temperate zone along the southern coast.

Most of the domestic growing stock is 20 to 40 years old and is mostly coniferous trees. Small diameter logs (less than 30 centimetres) represent 97 percent of total log production. Because timber quality is low and the majority of trees are small in diameter, domestic round-wood is primarily used for pitprops, lumber for crates, fiberboard, and wood chips for pulping.

The 2005 round-wood harvest is projected at 2.4 million cubic meters (CUM). Softwoods comprise 70 percent of the harvest, followed by temperate hardwoods at 30 percent. For 2006, the outlook for domestic roundwood production is 2.6 million CUM, with softwoods (75 percent) and temperate hardwoods (25 percent) being the dominant species. The Korean Government projects that, with proper management, sustainable domestic production should be able to satisfy more than 50 percent of total demand by 2030.

The Korean Forest Service (KFS) projects that in 2005 consumption of wood products will reach 27.4 million CUM (round-wood basis), of which 25.1 million CUM will be imported and 2.4 million CUM will be domestic. Total imports in 2005 are expected to be 6.7 million CUM of logs and 18.4 million CUM of lumber and processed wood products (round-wood equivalents).

Solid Wood Products Situation/Outlook

Because the Korean Lumber Industrial Corporation (KLIC) stopped reporting the status of the lumber processing industry in 1995, the Korean Forestry Administration took a survey of that industry in 2004. According to the survey, in 2003, the 717 companies that belonged to the KLIC produced 2,866,000 CUM of lumber processed from 4,660,000 CUM of round-wood. This is only half of the production in 1995 when 1,402 companies produced 3,440,000 CUM of lumber from 6,549,000 CUM of round-wood.

In 2004, the panel products industry, on average, operated at 104 percent of capacity (3.06 million CUM). Panel products included 877,000 CUM of plywood (80 percent of capacity), 840,000 CUM of particleboard (107 percent of capacity), and 1,339,000 CUM of medium density fiberboard (MDF) (118 percent of capacity). (full capacity a factory is working six days a week for eight hours.)

In 2005, the panel industry is expected to increase total capacity to 3,169,000 CUM due to greater demand for MDF for use in furniture and in interiors. The capacity for plywood is expected to decrease because, during the second half of 2004, one processor closed a plywood production line. Strong local production of particleboard and MDF could partly offset the import demand for of those products. The Korean Wood Panel Association predicts that in 2005 production of panel products will increase at least 10 percent relative to last year.

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With the support of the Korean Forestry Service, the Korean Plywood Industry Association (made up of eight wood processing plants) has succeeded in producing plywood from domestic larch trees. In February, the first month of production, one company produced 442 cubic meters and soon afterward a second company began to produce plywood from domestic timber as well. Because supplies are getting tighter on the world market, and prices rising, domestic timber has become more competitive vis-à-vis imported logs. In the future, domestic companies will continue to increase the use of local timber for the production of plywood.

Because concerns over the "sick-house syndrome" have grown in Korea, local veneer manufacturers have changed from wet to dry veneer to avoid the use of formalin.

TRADE

Overview/Outlook

Due to a slump in the construction sector, in the first quarter of 2005, Korean wood product imports fell by 8 percent to \$456 million, as compared with a year earlier. Although the importation of some wood products rose, those increases were not substantial enough to offset decreased imports of logs, lumber, veneer, particleboard and MDF. Meanwhile, in the first quarter of 2005, imports from the United States increased slightly to \$40 million, up 3 percent over the same period in 2004. Increases in imports of U.S. logs, particleboard and MDF accounted for the bulk of the increase. Imports in some U.S. categories decreased. Overall, in 2005, Korean imports of wood products are expected to be lower than in 2004 because of slowing demand from the construction sector. U.S. wood product exports to Korea, however, are expected to remain at more or less 2004 levels due to steady demand for wood products for high-end construction.

In 2004, Korean wood product imports totaled \$1.87 billion, up 5 percent from the previous year, due mainly to the increase in unit price and to the greater imports of wood chips, lumber, flooring and particleboard. Because ocean freight was expensive last year, importers tended to prefer importing finished products as opposed to logs which take up more cargo space. In 2004, U.S. wood product exports to Korea totaled \$167 million, up 13 percent from the previous year. This growth was due to higher unit prices, and the increased quantities of wood chip and log imports. As a result, the U.S. market share has grown to 8.9 percent of total wood product imports. The importation of softwood logs has increased greatly in response to the increased demand for high quality building materials. Imports of hardwood logs, meanwhile, were negatively affected by the slow economy and sluggishness in the housing, furniture, and interiors sectors.

The Korea Wood News (KWN), a bi-weekly newspaper company, has launched an aggressive campaign designed to promote wood product consumption. The theme of the campaign is "Using Wood is Loving the Earth." The campaign begins in May and will continue for a year. The key message of the campaign is that timber harvesting is good for sustainable forest management and the environment. The campaign will make use of advertisements in the KWN, posters, bumper stickers, etc. Campaign supporters include Korean government agencies, importers/wholesalers of wood products, builders, developers, and the embassies of some exporting countries.

The Korean National Plant Quarantine Service (NPQS), as of August 2004, banned oak imports from Nassau county, New York, and as of October 2004, banned them from San Francisco county, California over concerns surrounding Sudden Oak Death (SOD). More information about SOD can be found at: <u>http://www.aphis.usda.gov/lpa/sod/sod.html</u>.

Competition

In 2004, due mostly to high freight costs, the landed value of Korean wood product imports increased by 5 percent, to \$1,867 million, as compared with 2003. U.S. product imports increased 13 percent to \$167 million. The U.S. share of the Korean wood products import market grew slightly to 8.9 percent in 2004. Because of limited domestic forest resources, Korea must import about 92 percent of its wood product needs. In order to meet this demand, Korea imports wood products from over 50 countries among which the U.S., Indonesia, Malaysia, New Zealand, China and Russia dominate. In 2004, the combined market share of the top ten suppliers accounted for 91 percent of total imports. In 2003, and again in 2004, the United States was the fifth largest supplier, followed by Indonesia.

Recently, the Canadian Council of Forestry Industry (COFI) decided to focus its promotion activities to the Korean wood house construction industry. This year COFI plans to develop educational programs that discuss multi-story wood house construction technology for wood house builders, and wood housing seminars for consumers. COFI also plans to invite approximately ten Korean builders to attend a two-week training program that will be held in Canada in late August 2005.

MARKET SEGMENT ANALYSIS

CONSTRUCTION SECTOR

Marketing

Recent government infrastructure projects, and private and public sector housing construction projects have been responsible for much of the activity in the construction sector.

In 2004, building permits decreased 17 percent to 117,461,000 square meters and the number of new housing starts totaled 463,800 units, down 21 percent from 2003. But wood-frame house construction totaled 2,316 units and 383,000 square meters, up 16 percent and 3 percent respectively, as compared with 2003. Apartment complexes accounted for 87 percent of all housing construction, followed by single-family houses at 7 percent. Small multi-family buildings accounted for the remainder.

The Korean Government plans to supply 520,000 new homes in 2005, up 12 percent from the record of 2004. However, during the first quarter of 2005, building permits remained at around the same level as in the first quarter of 2004, but were down 36.3 percent from the previous quarter (Oct. – Dec. 2004). In the first quarter of 2005, as compared with the same period in 2004, housing starts declined 10 percent to 18,808,000 square meters. In the first quarter of 2005, building permits for wood-frame houses fell by 66.3% as compared with the same period in 2004. The leisure business (i.e., log cabins, country inns, etc.) has traditionally led the growth of wood-frame construction in Korea. New taxes, however, recently imposed on buildings with more than seven guest rooms, have put a damper on growth in this sector. Therefore, builders expect that construction of wood-frame houses will slow during the remainder of 2005, and that the total number of wood-frame houses built in 2005 will be about the same as the number constructed in 2004.

Builders, however, expect the number of wood-frame houses constructed in 2006 to grow because the government is expected to revise Korean fire codes for wood frame structures (KSF1611-1) in the second half of 2005. The American Forest and Paper Association (AF&PA), in cooperation with industry associations, including the Korean Wood Construction

Association (KWCA) and Korean Wood Builder and Designers Association (KWBDA), has conducted a number of seminars to help builders understand the new codes.

The AF&PA has participated in annual exhibitions in Korea and East Asia to promote the consumption of U.S. wood products in Korea. AF&PA has also attempted to educate Korean consumers about the benefits of using U.S. wood products in buildings, in interiors and for furniture through seminars, design fairs and housing fairs.

The 2004 Korea Wood Design Award Program selected 13 projects, including three hybrid structure buildings, five light-weight, wood-frame buildings, two post and beam structures, and one 2x4, post and beam structure. The award was given to the 2x4, post and beam building which was constructed in the Chungtae Mountain National Forest Resort. The AF&PA's Korean consultant inspected the award-winning building for compliance with International Building Codes. The Korean Forestry Service initiated the wood design award program in 2003 in an effort to promote domestic wood products.

One South Korean builder has built about 30 2x4 wood-frame houses on Mt. Keumkang in North Korea. The houses were built as lodging facilities for South Korean tourists. The builder expects the demand for such lodging facilities to increase as tourism to Mt. Keumkang becomes more popular.

Policy

At present, apartments in Korea tend to be sold when construction is 20 percent complete. But, by 2012, the government plans to require that construction be 80 percent complete before apartments are put on the market. It normally takes two to three years to complete construction after an apartment has been sold. This has resulted in frequent problems, because the products used for interiors often differ significantly from those featured in model units. This will have a positive affect on U.S. hardwood sales, because many model apartments feature U.S. hardwood veneer, but less expensive materials are used in the final product.

Building code revisions that went into effect on April 6, 2005, paved the way for the construction of multi-story, multi-family, wood-frame houses and commercial buildings such as hospitals, restaurants, schools, etc. Under the new codes, eaves of wood-frame buildings are allowed to reach as high as 15 meters, and total height is allowed to reach as high as 18 meters. In addition, MOCT expects that revisions to the fire code for wood frame structures (KSF 1611-1), which are currently under review by the Legislative Administration Agency, will be finalized before the end of 2005. AF&PA/Seoul, FAS/Seoul, the Korean Wood Construction Association (KWCA), the Korean Forest Service (KFS) and the Korean Forest Research Institute (KFRI) have collaborated in efforts to bring about this revision in Korea's building codes since 1991. Once these revisions are adopted, it is expected that the construction of multi-story, multi-family wood structures will expand significantly. Competing countries are also keenly watching developments in order to take advantage of opportunities that the new codes will offer. These two important code changes will make it possible to construct, for the first time in Korea, wood-frame structures that are five stories tall.

On November 15, 2004, the Korea Forestry Research Institute (KFRI) inaugurated the Korean Wooden Indoor Environment Council (KOWIEC), which is made up of experts from Korean wood product industries, government agencies, academia and research institutes, to determine what materials should be used in buildings to avoid "sick house syndrome."

After the 2004 tsunami in Indonesia, the Korean Government decided to strengthen the seismic resistance requirements for newly constructed buildings. The changes, which have

not yet been finalized, will require that any new building over three stories tall with more that 1,000 square meters of interior space, be able to withstand seismic events of a certain, yet to be determined, magnitude. In the past, requirements of this kind extended only to buildings that were six stories tall or taller, and with 10,000 or more square meters of interior space. This revision, as well as the new fire code (KSF 1611-1), is looked upon as a positive development by the wood-frame building industry.

Large government construction projects will get under way in the next few years in Yeonki-Kongju, in Choong-Nam Province, which will become the headquarters for several ministries and governmental agencies. In addition, the government also recently decided to move 176 public organizations now situated in Seoul to outlying provinces. This is part of the government's attempt to promote economic activity in other parts of Korea, and to decentralize government operations, which are concentrated in Seoul. In addition, in the second half of 2006, in order to provide more areas for housing developments, the government plans to ease green belt restrictions in areas near Seoul. Space for housing in Seoul is currently very restricted, leading to very high population density and high housing prices.

The Korea Land Corporation (KLC), a quasi government agency responsible for supplying land for housing to private developers, has decided to develop a single-family housing complex at Dongbaek, which is near Seoul. KLC plans to construct about 17,000 units, mainly in high-rise condominiums. About 1,000 units, however, will be single-family houses. KLC involvement in the single-family housing market will motivate other large private developers to get involved in the development of 2x4 wood-frame houses, which are the single-family houses of choice. KLC is planning a similar single-family housing project in Pangyo, just south of Seoul, which will include about 2,500 single-family houses.

As of July 1, 2005, the Korean Government mandated that all companies with more than 300 employees must move to a five-day workweek. A year earlier, the same rule was implemented for companies employing more than 1,000 workers. The longer weekends are expected to generate demand for wood-frame vacation facilities for weekend travelers.

Trade

Due to the code revisions, which allow for taller wood-frame structures, builders expect that there will be a large increase in the importation of glulam. Currently, however, U.S. dimension lumber is not widely used in Korea, because it is relatively expensive and the Korean wood-frame housing market is very price sensitive. Canadian SPF lumber, a mixed species of Spruce, Pine and Fir, is cheaper than U.S. dimension lumber. During the past year, the Korean won appreciated against the dollar, enhancing the price competitiveness of Canadian lumber. Korean builders of wood-frame housing prefer to buy individual wood-based building materials, such as lumber, windows, doors, molding, and paneling, and not prefabricated houses.

A huge wooden deck and glulam bridge were built over a lotus field in a tourism park in Chun-Nam Province, in southern Korea. The walkway is about 530 meters long, and its average width is 3.3 meters. One hundred thirty cubic meters of treated Radiata Pine were used to construct the walkway. Thousands of timber piles, some as long as 10 meters, were used to support the upper deck and bridge, which is one of the longest wooden bridges in Korea. In addition, the bridge has spans 30 meters in length, which are supported by glulam beams. The same builder has plans for a number of similar projects in other parts of Korea and plans to use Southern Yellow Pine (SYP) treated lumber. AF&PA Korea is working with the builder and architect to facilitate their use of SYP.

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Local distributors have built inventories of price competitive wood products in their warehouses. This includes such products as Oriented Strand Board from Canada, Chile and the EU; red pine wall paneling from Russia; wall paneling, and chemically treated decking products from Finland, Sweden and Canada to supply their anticipated future needs. A major Korean distributor has purchased a sawmill in Canada in order to process dimension lumber for the Korean market. Meanwhile, the United States has become a competitive supplier of wood-based building products, including door and window molding and millwork.

FURNITURE & INTERIORS SECTOR

Marketing

The furniture and interior sectors have traditionally been the largest users of hardwoods. The furniture industry expects market growth to be limited this year. The sluggish economy and weak consumer confidence have had a negative impact on these sectors. The government's attempts, since October 29, 2004, to curb speculation in the housing market have also had a dampening effect on the furniture and interior sectors.

Korean demand for hardwood products has declined as furniture and musical instrument manufacturing facilities have moved offshore. The furniture manufacturers that remain in Korea make such items as sofas and dining room tables, using solid wood. They also manufacture office furniture and built-in home furniture using composite panel products.

Younger couples tend to prefer modern design furniture made with low priced panel products. Older consumers, conversely, prefer natural wood furniture, and medium and high quality imported items. Some local manufacturers have substituted coated paper for wood veneer to compete with lower priced furniture imported from China and Southeast Asian countries.

Many Korean consumers are influenced by a new trend referred to locally as "well-being." "Well-being" refers to a healthy and natural life style. Its growing numbers of adherents prefer solid oak, maple, walnut and cherry furniture. Given the large number of Koreans who now have a five-day workweek, the furniture industry expects consumer furniture needs to change along with the greater amount of leisure time spent at home.

The American Hardwood Export Council (AHEC) has been active in participating in annual exhibitions and seminars in Korea and East Asia. These events promote the consumption of U.S. hardwood products in Korea. AHEC has used seminars and design fairs to educate Korean designers about the benefits of using U.S. hardwood products for interiors and furniture. At the 2005 Seoul Living Design Fair, AHEC featured U.S. hardwood interiors and furniture in its "Eco Design with U.S. Hardwood" display designed by John Kelly, a renowned furniture designer based in New York. In addition, five designers featured several items of furniture and interior pieces made from red oak and walnut wood.

Policy

The Korean Wood Culture Forum (KWCF), a non-profit organization consisting of woodrelated government agencies and industry associations, has placed a high priority on promoting the use of wood materials in schools, particularly school flooring. The KWCF recently published a textbook promoting the advantages and benefits of wooden interiors, and distributed it to government agencies and industry associations. The KWCF's recommendation is expected to increase the use of wood in school flooring and gymnasiums. AHEC has also placed stories in Korean publications about its Eco-Interior project in Japan, which will feature U.S. hardwoods in a nursery school.

Trade

Korea has continued to increase imports of medium and low quality furniture from offshore manufacturers in China due to their very competitive prices. Imports of high quality furniture tend to come from Europe. The trend toward increased furniture imports suggests that demand for hardwood products from domestic furniture manufacturers will decrease over time.

Korean furniture imports in 2004 increased 14 percent to \$559 million while exports jumped 34 percent to \$289 million as compared with a year earlier. China has become the largest counterpart for both Korean furniture imports and exports. Korea has increased the importation of furniture parts from China and has also increased the exportation of finished furniture to other countries, China included. This underscores the importance of the Korean market as both a destination for products manufactured from U.S. hardwoods in third countries, such as China and Vietnam, and as a supplier of wooden furniture to those third countries.

During the first four months of 2005, as compared with the same period of time during the previous year, furniture imports increased 29 percent, to \$232 million, while furniture exports jumped 43 percent, to \$121 million. For the period in question, China dominated the Korean furniture market with a market share of over 60 percent in both imports and exports. Furniture trade is expected to follow this pattern for the near future.

Demand for hardwood lumber has been undermined by the substitution of solid wood with cheaper-priced composite and tropical wood products. In 2004, the U.S. export value of temperate hardwood lumber declined to \$19 million, down 15 percent from 2003. The quantity also decreased by 16 percent. In 2005, (based on first quarter data) the value of U.S. exports of temperate hardwood lumber is expected to increase slightly, i.e., by approximately 4 percent, as compared with 2004. The quantity of items purchased, however, is expected to decline as much as 25 percent for the year. This is due to the fact that high unit value imports of panel products for use in interiors and as inputs for the manufacture of furniture have increased, while imports of lower unit value imports of hardwood lumber have decreased.

MATERIAL HANDLING INDUSTRY

Overview

In 2004, total pallets circulating within Korea as part of the Korean Pallets Pool System hovered around 60 million units. Market share for wooden pallets has fallen to 55 percent, plastic pallets increased to 40 percent, and other pallets, such as iron and paper, are unchanged at 5 percent.

Annual pallet production in 2005 is projected at 12 million units, worth about \$270 million. The Korea Pallet Association does not expect pallet production in 2005 to increase because Korean exports in 2005 are not expected to keep pace with 2004's. The production of disposable wooden pallets for export accounts for roughly 65 percent of total pallet production. Plastic pallet production accounts for 30 percent. Plastic pallets are used for domestic commerce under the pallet pool system, and have an average life of eight years. The remainder, 5 percent, is constructed with metal or paper.

Local pallet producers continue to increase production of plastic pallets, which are more durable than wooden ones, and are less likely to result in damage to goods which is commonly caused by nails in wooden pallets. The implementation of the IPPC rule on solid wood packaging materials (SWPM) has increased demand for plastic pallets.

Policy

In accordance with the IPPC rules on imported softwood packaging materials (SWPM), the Korean National Plant Quarantine Service (NPQS) announced that it would enforce the quarantine formalities for SWPM imported after June 1, 2005. Products subject to these quarantine measures include pallets, crates, wooden boxes, etc., which are used for import/export packaging. SWPM must be certified to have undergone heat treatment for more than 30 minutes at 56° Celsius. Noncompliant shipments must be returned or disposed of.

For more information on these requirements, refer to the American Lumber Standard Committee website at <u>www.alsc.org/WPM_summary_mod.htm</u> and the National Hardwood Lumber Association website at <u>http://www.natlhardwood.org</u>. Click on "Heat Treatment".

TARIFF

The Ministry of Finance and Economy accepted the industry's petition to lower tariffs on temperate hardwood veneer to the same level as tariffs for tropical hardwood veneer. As a result, effective January 1, 2005, tariffs on imported U.S. hardwood veneer fell from 5 percent to 3 percent. Local Ondol flooring manufacturers, the largest consumer of temperate hardwood veneer, will benefit most from the lowered tariff. In addition to the veneer tariffs, Ondol flooring manufacturers are asking the government to lower tariffs on plywood used for Ondol flooring substrate. Currently the import duty for plywood for Ondol flooring is 13 percent while the quota rate is 8 percent. (Ondol flooring is a type of flooring under which water pipes circulate hot water to provide heating in the winter.)