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Korea, Republic of

Forest Products

Forest and Products

1998

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Executive Summary

Korea imported \$2.37 billion in 1997, down seven (7) percent from 1996. Imports through May 1998 total \$369,000, down 61 percent compared the same year earlier period. Imports from the United States were on the decrease in 1997 prior to the onset of the economic turmoil. In 1997, U.S. origin wood products trade totaled \$324,948 down seven (7) percent over 1996 totals. Imports from the U.S. through April 1998, though, are down 52 percent compared to the same year earlier period.

In 1997, US softwood log imports declined slightly in value, as did imports from other suppliers. New Zealand and Chile continue to be the principle suppliers of logs. U.S. hardwood lumber imports reached a record level, as the furniture and interiors sectors continued developing applications for this quality of wood. Renewed interest in U.S. panel products, mainly driven by price, sparked a mini-surge in imports.

Demand for forest products is expected to drop eight (8) percent in 1998 on account of the economic situation. The outlook for 1999 is marginally better. The Government of Korea recently revised its economic growth projections for 1998 and 1999 to negative four (-4) percent and zero (0) percent, respectively.

Since November 1997, Korea's construction industry has been especially hard hit by the economic crisis plaguing the country. Contraction in the business sector and lack of consumer's confidence in the near-term revival of the economy have had a negative impact on commercial and residential construction demand. Budgetary constraints have caused curtailment or cancellation of 26 major public infra-structure projects. Compounding the situation is the chaos in the financial sector caused by bankers near total withdrawal from the commercial loan market. Their action is taken in effort to meet requirements of newly implemented government banking standards. Credit availability remains a significant problem for businesses and individuals seeking to build during this period.

Based on current economic indicators, many financial experts forecast Korea is, at minimum, a couple of years away from full economic recovery. The turn-around in the economy should, in part, be sparked by the restructuring of the financial sector. Restructuring of the financial sector then, in turn, should result in broader availability of credit throughout the economy. Credit is the lifeline for the construction industry, reportedly having the highest debt/asset ratio and highest rate of bankruptcies among all Korean industries. The three-to-five year outlook is more bullish. The economy will rebound, and if structural readjustments are fully implemented, should result in the country returning to the high rate of economic growth it is accustomed to.

Strategic Indicator Tables

| Country: Korea | Previous | Current | Following |
|---|---------------|---------------|---------------|
| Report Year:1998 | Calendar Year | Calendar Year | Calendar Year |
| | | | |
| Total Land Area | 9.93 | 9.93 | 9.93 |
| Total Forest Area | 6.448 | 6.441 | 6.435 |
| of which, Commercial | 77% | 77% | 77% |
| of commercial, tropical hardwood | na | na | na |
| of commercial, temperate hardwood | 20% | 20% | 20% |
| of commercial, softwood | 80% | 80% | 80% |
| of forest area, non-commercial | 23% | 23% | 23% |
| Forest Type | | | |
| Of which, virgin | na | na | na |
| Of which, plantation | na | na | na |
| Of which, other commercial (regrowth) | na | na | na |
| Forest Ownership | | | |
| Nationally owned and no commercial access | 0.306 | na | na |
| Nationally owned, commercial logging permitted | 1.092 | na | na |
| Other publicly owned land, no commercial access | 0.109 | na | na |
| Other publicly owned, logging permitted | 0.38 | na | na |
| privately owned commercial forest | 3.499 | na | na |
| Total Volume of Standing Timber | 324 | 340 | 357 |
| Of which, Commercial Timber | 251 | 262 | 275 |
| Annual Timber Removal 1/ | 1 | 1 | 1 |
| Annual Timber Growth Rate | 5% | 5% | 5% |
| Annual Allowable Cut | 1 | 1 | 1 |

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

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| STRATEGIC INDICATOR TABLE: CONSTRUCTION MARKET | | | | |
|---|---------------|---------------|---------------|--|
| Country: Korea | Previous | Current | Following | |
| Report Year:1998 | Calendar Year | Calendar Year | Calendar Year | |
| | | | | |
| Total Housing Starts (number of units) | 596,435 | 500,000 | 500,000 | |
| Of which, wood frame | na | na | na | |
| Of which, steel, masonry, other materials | 596,435 | 500,000 | 500,000 | |
| Of total starts, residential | 596,435 | 500,000 | 500,000 | |
| Of residential, single family | 52,948 | 50,000 | 50,000 | |
| Of residential, multi-family | 543,487 | 450,000 | 450,000 | |
| Of total starts, commercial | 596,435 | 500,000 | 500,000 | |
| Total Value of Commercial Construction Market (\$US million) | na | na | na | |
| Total Value of Repair and Remodeling Market (\$US million) | na | na | na | |
| Are tariffs on softwood from the United States higher, equal or lower than softwood imported from other countries? 1/ | equal | equal | equal | |
| Are tariffs on plywood from the United States higher, equal or lower than plywood imported from other countries? 1/ | equal | equal | equal | |
| Are non-tariff barriers on softwood from the United States higher, equal or lower than softwood imported from other countries? 1/ | equal | equal | equal | |
| Are non-tariff barriers on plywood from the United States higher, equal or lower than plywood imported from other countries? 1/ | equal | equal | equal | |
| Are there market development programs for construction, softwood or plywood imports funded by foreign governments? | no | no | no | |
| If yes, identify the following: | - | | | |
| Country(ies) | - | - | - | |

| Form(s) of competition: Export subsidy, trade show, trade servicing, permanent market representative (number), permanent office (location), or other. 2/ | Australia, Canada, New Zealand and Scandinavian countries attend trade show | | |
|--|--|--------|--------|
| Estimated annual market expansion outlay (\$US million) by country | na | na | na |
| Is the acceptability of U.S. style timber frame construction (i.e., per building codes, mortgage availability, etc.) high, medium or low? 3/ | low | low | low |
| Are consumer preferences for solid wood materials vis-a-vis non-wood materials in construction high, medium or low? 3/ | high | high | high |
| From Post's experience, is the willingness of U.S. suppliers to deliver product per importers' specifications low, medium or high? 3/ | medium | medium | medium |
| If price quotes for construction and structural wood products are available, identify the leading source(s) | Traders, Forestry Administration | | |

1/ If other than equal, explain in report text.

2/ If "other", then explain in report text.

3/ If low or medium, explain in report text.

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| STRATEGIC INDICATORS TABLE: FURNITURE & INTERIORS MARKET | | | | | |
|---|---------------|---------------|---------------|--|--|
| Country: Korea | Previous | Current | Following | | |
| Report Year:1998 | Calendar Year | Calendar Year | Calendar Year | | |
| | | | | | |
| Total Housing Starts (number of units) | 596,435 | 500,000 | 500,000 | | |
| Total Number of Households) | 11,544,000 | na | na | | |
| Furniture Production (\$US million) | 3,637 | na | na | | |
| Interiors Market Size (\$US million) | na | na | na | | |
| Total Furniture Imports (\$US million) | 293 | 150 | na | | |
| Total Furniture Exports (\$US million) | 196 | 180 | na | | |
| Are tariffs on hardwood from the United States higher, equal or lower than hardwood imported from other countries? 1/ | equal | equal | equal | | |
| Are non-tariff barriers on hardwood from the United States higher, equal or lower than hardwood imported from other countries? 1/ | equal | equal | equal | | |
| Are there market development programs for furniture or interiors market expansion funded by foreign governments? | na | na | na | | |
| If yes, identify the following: | - | - | - | | |
| Country(ies) 2/ | - | - | - | | |
| Form(s) of competition: Export subsidy, trade show, trade servicing, permanent market representative (number), permanent office (location), or other. 3/ | - | - | - | | |
| Estimated annual market expansion outlay (\$US million) by country | | | | | |
| From Post's experience, is the willingness of U.S. suppliers to deliver product per importers' specifications low, medium or high? 4/ | - | - | - | | |
| If price quotes for furniture and interiors products are available, identify the leading source(s) | - | _ | _ | | |

1/ If other than equal, explain in text.

2/ If more than one country, report each country individually.

3/ If "other", explain form of subsidy in text.

4/ If low or medium, explain in test.

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| STRATEGIC INDICATOR TABLE: MATERIAL HANDLING MARKET | | | | | |
|---|---------------|---------------|---------------|--|--|
| Country: Korea | Previous | Current | Following | | |
| Report Year:1998 | Calendar Year | Calendar Year | Calendar Year | | |
| Total Value of Industrial Output (\$US million) | 2 | 1.5 | 1.5 | | |
| New Pallet Production (million units) | 8 | 6 | 6 | | |
| Are consumer preferences for solid wood pallets and packaging materials vis-a-vis non-wood materials high, medium or low? 1/ | high | high | high | | |
| Are industry/trade preferences for repaired/recycled pallets over new pallets low, medium or high? 1/ | high | high | high | | |
| From Post's experience, is the willingness of U.S. suppliers to deliver product per importers' specifications low, medium or high? 1/ | na | na | na | | |
| Identify leading source(s) of price quotes: | producers | producers | producers | | |
| Are there market development programs for the materials handling market expansion funded by foreign governments? | na | na | na | | |
| If yes, identify the following: | na | na | na | | |
| Which Countries? | na | na | na | | |
| Form(s) of competition: Export subsidy, trade show, trade servicing, permanent market representative (number), permanent office (location), or other. 2/ | na | na | na | | |
| Estimated annual market expansion outlay (\$US million) by country | 20% | -30% | na | | |

1/ If low or medium, explain in text of report.2/ If "other", explain in text of report.

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| STRATEGIC INDICATOR TABLE: WOOD PRODUCTS SUBSIDIES | | | | |
|--|---------------|---------------|---------------|--|
| Country: Korea | Previous | Current | Following | |
| Year of Report:1998 | 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? If yes, which? | none | none | none | |
| Are there export taxes (yes/no)? 1/ | na | na | na | |
| If yes, for which products? (Identify export tax level in tariff table) | na | na | na | |
| Source(s) of Export Subsidy Information | na | na | na | |
| Total Wood Production Subsidy Outlay (\$US million) | na | na | na | |
| Are there any programs favoring the development of commercial forestry? | yes | yes | yes | |
| If yes, Post best estimate of scope (thousands of hectares) | 25 | na | na | |
| If yes, Post's best estimate of financial outlay (\$US million) | 0.14 | na | na | |
| Source(s) of Production Subsidy Information | na | na | na | |
| Does the country support export expansion activities similar to the Cooperator Program? | na | na | na | |
| Which country markets are targeted? | - | - | - | |
| Which products are targeted? | - | - | - | |
| Are there significant wood products export expansion activities at the provincial or regional level? | - | _ | - | |
| If yes, identify key players | - | - | - | |
| If yes, identify key market segments | - | - | - | |
| If yes, identify key country markets | - | - | - | |
| If yes, identify key products | - | - | - | |
| Post's estimate for combined outlay (\$US million) | - | - | - | |
| Source(s) of Provincial/Regional Support Information | - | - | - | |
| Are there other wood products export expansion activities? If yes, describe in report. | na | na | na | |

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| STRATEGIC INI | | Touiff | Touiff | Other | | |
|------------------|------------------------------|---------|-----------|------------|-------------|----------|
| | | Tariff | Tariff | Other | T 10 | T |
| Country: Korea | Product | Current | Following | Import | Total Cost | Export |
| Report Year:1998 | Description | Year | Year | Taxes/Fees | of Import | Tax |
| 4401 | Wood Chips, fuel wood 1/ | 2 | 2 | 12 | | na |
| 4403 | Tropical Roundwood 2/ | 1 | 1 | 12 | | na |
| 4403 | Other Roundwood 2/ | 2 | 2 | 12 | | n |
| 4404 | Sticks.etc | 2 | 2 | 12 | | n |
| 4405 | Wood wool | 5 | 5 | 12 | | na |
| 4406 | Railway ties | 5 | 5 | 12 | | na |
| 4407 | Lumber | 5 | 5 | 12 | | na |
| 4408 | Veneer 3/ | 5 | 5 | 12 | | na |
| 4409 | Finished Lumber | 8 | 8 | 12 | | n |
| 4410 | Particle board | 8 | 8 | 12 | | n |
| 4411 | Fiberboard | 8 | 8 | 12 | | n |
| 4412 | Plywood, veneered Panels and | 8 | 8 | 12 | | n |
| | similar laminated wood 4/ | | | 12 | | n |
| 4413 | Densified wood | 8 | 8 | 12 | | n |
| 4414 | Wooden frames | 8 | 8 | 12 | | n |
| 4415 | Packing cases, boxes, crates | 8 | 8 | 12 | | n |
| 4416 | Casks | 8 | 8 | 12 | | n |
| 4417 | Tools | 8 | 8 | 12 | | n |
| 4418 | Builders' joinery | 8 | 8 | 12 | | n |
| 4419 | Tableware/Kitchenware | 8 | 8 | 12 | | n |
| 4420 | Wood marquetry | 8 | 8 | 12 | | n |
| 4421 | Other articles of wood | 8 | 8 | 12 | | n |
| 4422 | na | na | na | 12 | | n |
| 4423 | na | na | na | 12 | | n |
| 4424 | na | na | na | 12 | | n |
| 4425 | na | na | na | 12 | | n |
| 9406 | Pre-fabricated Houses | 8 | 8 | 12 | | n |

- 1/ Quota tariff reduced one percent for Temperate Hardwood Chips.
- 2/ Quota tariff reduced to zero percent for all imported logs.
- 3/ Quota tariff reduced to 2.5 percent for all imported veneer thicker than 1 mm for the purpose of plywood manufacture.
- 4/ Adjusted tariff increased to 15 percent for CY 1998.

Market Segment Analysis

A. Construction Sector

Overview

Korea, a country with limited arable land, imposes stringent land-use laws that force vertical rather than horizontal development. Multi-story high-rise office/apartment buildings dominate the urban landscape. During the first quarter 1998, registered new construction starts declined 35 percent. The weak economy and diminishing supply of credit combined to constrain demand for new construction by both individuals and companies.

The traditional Korean house is made near totally with wood. However, the average person is not able to build this style of house. High land and construction costs, plus zoning regulations that encourage construction of high-density housing units make it cost prohibitive. Since the Korean war, housing construction has been driven by the above noted constraints. Today, single-family and multi-family units are of brick/cement exterior/interior wall construction with wood molding for interior doors and interior window frames. Roof support structures on single-family units are of wood construction. Office buildings are of steel/concrete construction typically with metal moldings, window frames and interior doors.

Housing policy and domestic market development programs are set and guided by the Ministry of Construction and Transportation (MOCT).

Building code regulations recently were changed to allow use of temperate climate soft woods in interior construction.

Outlook

The economic crisis prompted the government into a deregulation mode for a number of industries, including construction.

- Land acquisition and zoning regulations are being eased to boost housing construction in the suburban and quasi-farmland areas. Opportunities for wood frame residential construction will be enhanced by the easing of these regulations.

- In February, price controls on new-to-market housing units in metropolitan areas were lifted. The current glut in unsold new housing units has diminished speculative interest which justified price controls measures. Lifting of price controls should encourage demand for higher quality finish material as builders now will be able to recoup input costs incurred to meet customer preference.

In 1997, new housing units added to the market increased only one percent over the year earlier period. Construction of new housing units was proceeding briskly until the country's economic problems became visible last fall. When the problems emerged, the financial sector tightened credit which forced many building contractors into bankruptcy.

In 1998, more than 90,000 new apartment units that have come on-line so far remain unsold. Housing planners are now revising the government's housing supply plan which calls for 500,000 new units to be constructed this year and next, with the ultimate goal of a 100 percent housing supply by the year of 2002. No clear indications have been given as to how much the planners are considering changing the master plan.

Further, how the changes in the master plan will affect the Ministry of Construction and Transportation (MOCT) projects at Kyoha and Junbuk is not known. The MOCT projects involve the development of two new towns, similar to IIsan and Bundang projects. The two projects, once completed, would add 62,000 new homes for 240,000 people. Given the distance these two new towns would be from Seoul, land rezoning should be favorable for single and low-rise multifamily housing development.

Official 1997 data on wood frame housing imports have not been released. Unofficial data, released by the Korean Forestry Service, shows 1,100 wooden housing units were imported last year. Of that total, approximately 800 units were of the American-style 2x4 homes. For the first quarter 1998, the value of imported wood frame housing units stood at 1.8 million dollars, a third of the value of imported wooden houses record in for the same period in 1997.

Five large government infrastructure projects should regain priority funding once the budget situation stabilizes along with the economy. The projects are: a new international airport outside Seoul; a Seoul-Pusan high-speed railway line; a new container terminal near the port city of Pusan; and two new harbor expansion works aimed at making Korea an international shipping hub. Total expenditures for these projects through the year 2000 had been estimated at \$25 billion.

Market Opportunities

Prior to the onset of the country's economic difficulties, wood frame construction was showing the greatest growth for U.S. wood products in this market. Although admittedly from a relatively small base, Korean imports of wood frame houses have jumped dramatically in recent years. Imports jumped 29 percent, to US\$ 29.2 million, in 1997 after recording an increase of 105 percent, to US\$22.7 million, in 1996. Of these totals,

the United States supplied US\$17.1 million worth in 1997 and US\$14.4 million worth in 1996. Ample

marketing opportunities continue to exist in this sector, especially if the MOCT projects are fully funded.

Public/Private Sector Contacts

Housing & Urban Affairs Bureau Ministry of Construction & Transportation Phone: 011-2-504-9130 Fax: 011-2-504-6128

Korea Housing Association 4th fl., Construction Bldg., 71-2, Nonhyun-dong, Kangnam-ku, Seoul 135-010, Korea Phone: 011-2-548-1078/9 Fax: 011-2-215-1312

Korea Specialty Contractors' Association Construction Bldg., 71-2, Nonhyun-dong, Kangnam-ku, Seoul 135-010, Korea Phone: 011-2-549-8985/6 Fax: 011-2-549-8987

Korea Housing Builders Association #205, Donghwa Bldg., 25-5, Yiodo-dong, Youngdeungpo-ku, Seoul 150-010 Korea Phone: 011-2-782-2966/7 Fax: 011-2-782-5738

Korea Wood Construction Research Group Dept. of Forest Products, Chungnam National Univ., Taejon-si 305-764, Korea Phone: 011-42-821-5756 Fax: 011-42-822-3503

Commercial Impediment

Impediments, both direct and indirect, are varied and numerous. Presently, the economy and the financial system are the two biggest constraints to demand and trade of U.S. wood products. Smaller businesses and consumers are finding financing extremely difficult to come by. Regulatory requirements too, though some are changing, still constrain construction of wood-frame buildings and the use of wood in framing and concrete forming.

In terms of direct constraints, the Korean building code remains the largest regulatory barrier. The code includes restrictions to areas such as height of a wooden building and total allowable floor area. Equally

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important, the building code provides very few guidelines on the construction of a wooden dwelling.

As interest in wood frame construction has grown, another constraint has developed--and that is a severe lack of skilled carpenters. Korean construction workers are greatly skilled in masonry work and other skills associated with the construction of high-rise apartments. However, their experience in wood frame construction is almost non-existent. Since 1996, the AFPA has organized an annual two-week training program for Korean carpenters in an attempt to begin to address this very real problem.

Perhaps the biggest--albeit indirect--constraint is Korea's almost total emphasis in the housing sector on high-rise apartments. As alluded to earlier, however, the thinking among government and industry officials is changing. As a result, the local cooperator office for the American Forest & Paper Association (AFPA\Seoul) has placed additional emphasis on promoting wood frame housing construction using U.S. lumber products.

Third Policy and Consumption Constraints

Policy is set by the Ministry of Construction and Transportation (MOCT). MOCT maintains the Korean building code that is implemented by regional and local officials. There are no quotas for imported logs or wood. However, end-users, developers, distributors and processors must purchase through a registered importing agent.

Third-Party Competition

The primary competition for U.S. softwood logs are tropical hardwood logs (which are apparently becoming increasingly scarce) and radiata pine from New Zealand and Chile. Russian softwood also enters the market, mainly through barter deals with Korean trading companies. In the lumber sector, the primary competition comes from Canada and New Zealand. The New Zealand Timber Industry Federation Inc. is actively promoting its radiata pine lumber while the Canadian industry is aggressively pursued the market for wood frame houses.

B. Furniture/Interiors Sector

Overview

The country's economic situation has led to a general curtailment in construction of high-end hotels and office buildings, interior remodeling and rebuilding projects, and purchases of general consumer items such as furniture and electronic equipment. The economy is still contracting. The prevailing thought is that it will be

many months before the economic situation stabilizes and a couple years before it fully recovers. During this period, demand across the forest products spectrum should be soft.

Prior to the onset of the economic crisis, the Korean furniture industry had experienced rapid expansion over the past decade. An estimated 3,300 furniture manufacturers employing over 50,000 people existed. Small manufacturers-less than 50 employees--account for over 95 percent of total furniture manufacturers. This has changed. The government has not published official data showing the extent of the fall-out to date in the industry due to economic and fiscal crisis. Anecdotal evidence indicates the industry may have contracted upwards of forty percent.

For 1997, the industry estimates total wood products consumed by the furniture sector at 2.36 million CUM broken down as follows: MDF, 900,000 CUM; plywood, 300,000 CUM; logs, 285,000 CUM; lumber, 264,000 CUM; particle board, 600,000 CUM; and veneer, 14,000 CUM. Total market size was approximately \$3.6 billion (3.5 trillion Won), led by home furniture (43 percent: 1.5 trillion Won); kitchen furniture (20 percent: 0.7 trillion Won); office furniture (25 percent: 0.9 trillion Won); and bedroom furniture (12 percent: 0.4 trillion Won).

According to the Interior Contractors Committee (ICC), in 1997 the Korean interior market was estimated at \$2 billion (2 trillion Won) and included approximately 1,800 interior companies. If small, family-operated companies, are included, the interior market would have been about 4 trillion Won and would have included more than 5,000 interior contractors.

Outlook

The near through mid-term outlook for the domestic furniture and interiors industries are ones of low growth in response to soft demand in both the domestic and export markets for furniture, electronic equipment and cabinetry products.

Korea Federation of Furniture Industry Cooperatives (KFFIC) projects the Korean furniture market will contract 25 percent in 1998 due the economic slowdown. In value terms, they estimate the market size will decline to US\$1.9 billion (2.65 trillion Won).

The Interior Contractors Committee (ICC) projects the Korean interior market will contract about 50 percent in 1998. Koreans are giving this area of consumption a low priority.

Market Opportunities

In the absence of this economic situation, consumer furniture preference is for light-colored, solid hardwood pieces. With the economic situation, consumer furniture buying patterns have shifted to less expensive processed wood pieces made using MDF and particle board, or imported from Southeast Asian countries.

Additional opportunities as highlighted by AFPA\Seoul in its monthly reports are as follows:

Office furniture: The market has slowed due to the high-rate of restructuring and/or financial difficulties within the business community.

Bedroom furniture: Between 400,000 - 500,000 marriages occur annually in Korea, offering a continuous market for bedroom furniture. In recent years a definite trend towards western style bedrooms, particularly among the young couples, has emerged. This year, however, the ability of newlyweds to purchase new furniture is being constrained by uncertainty about the economy.

Kitchen furniture: This market has continued to grow with an emphasis on convenience. Growth will not be near as rapid as experienced in recent years due to the slowdown in new housing starts construction and remodeling/rebuilding projects.

Building materials: The 1997 decision by the Korea National Housing Corporation (KNHC) to use door and window frames made of softwood lumber (Douglas fir) in its housing projects benefitted the U.S. wood door and window frame manufacturers. Tropical hardwood has dominated this market for over 30 years. KNHC, a government funded corporation, builds around 60,000 units annually--mostly high rise apartments intended for low and middle income home buyers.

Interior: The Korean interior market for wood products is dependent on the strength of the construction sector. Most designers, however, are not overly familiar with American hardwoods and softwoods used in interior design. This situation is improving as a result of recent marketing efforts. Many local designers do complain that it is difficult to purchase American hardwood locally. Despite this, the demand for U.S. softwoods and hardwoods has increased significantly in recent years, especially for flooring, walling, and doors, as the market begins to shift in response to demands of a more quality-conscious consumer. Korea's economic downturn is expected to bring only a temporary delay in this trend.

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Public/Private Sector Contacts

Korea Federation of Furniture Industry Cooperatives 374-2, ChangAhn-Dong, TongDaeMoon-Ku, Seoul, Korea Phone: 011-2-215-8838 Fax: 011-2-215-9729

Interior Contractors Committee Jeon Yeon Building, 106-8, Nonhyon-Dong, Kangnam-Ku, Seoul, Korea Phone: 011-2-511-5672 Fax: 011-2-514-9922

Commercial Impediments

Market competition and price differentials are key impediments to expanded U.S. exports to Korea. Though changing gradually, Korea remains a price-sensitive market within the wood furniture sector. This leads to a greater dependence on paneled products such as plywood, particle board, and MDF--sectors where the United States is not price competitive with imports from Southeast Asia.

The U.S. hardwood continues to be limited by the lack of familiarity among local consumers. AHEC\Korea has taken a number of steps to address this impediment.

While overall awareness of U.S. products is improving, access to materials remains a major obstacle. A number of smaller companies indicate that they would like to experiment with U.S. hardwoods, but are simply unable to purchase the lumber locally.

Even if demand for raw wood materials or furniture were to grow in the near-term, new financial impediments imposed by a banking sector undergoing a major restructuring initiative would inhibit imports. Bank loan collateral requirements often exceed the capital capabilities of many small-medium size firms.

Trade Policy and Consumption Constraints

Policy is set by the Ministry of Construction and Transportation (MOCT). MOCT maintains the Korean building code that is implemented by regional and local officials. There are no quotas for imported furniture or interior finishing materials. However, end-users, developers, distributors and processors must purchase through a registered importing agent.

Third-Party Competition

Italy dominates the high-end furniture market while Southeast Asian countries and China control the low-to-medium end market. The United States is not price competitive with imports from Southeast Asia.

C. Material Handling Industry

Overview

Korea's material handling industry has evolved along with the export focused economy. The domestic industry produces pallets, crates and containers using wood, plastic and steel materials. Pallet construction is principally made with wood. Korea Pallet Association data shows the pallet industry had enjoyed a 20 percent rate of growth for several years prior to 1998. The Association projects growth will decline 30 percent this year. In

1997, 7.5 million pallets were produced; 70 percent with wood, 27 percent with plastic, the balance with steel or paper.

Korea Pallet Association (KPA) Mr. Park, Eun Kyu, Managing Director Tel: (02) 715-1281/2 Fax: (02) 715-1283

Outlook

Korea's economy is based on production and export of consumer goods. For that reason, demand for packaging material will always exist. Even with the contraction in the local economy, export of consumer goods remain ahead of year earlier levels.

Market Opportunities

The Korea Logistics and Packaging Center (KLPC), which is composed of packaging material manufacturers, recently developed a new type of reusable wood box for packaging. The new box can be easily assembled or disassembled by users without using nails or adhesives. The newly-developed product will be used for packing various manufactured goods such as electronic appliances, machinery and automobile components. According to industry sources, U.S. softwood lumber is the most appropriate raw material for the new packaging product. With Korean industry increasingly moving assembly plants off shore, this could represent a growing market for U.S. softwood suppliers.

Commercial Impediments

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Trade Policy and Consumption Constraints

Policy is set by the Ministry of Construction and Transportation (MOCT) and implemented by regional and local officials.

Third-Party Competition

New Zealand, as the major supplier of radiata pine, is the U.S.'s chief competitor in this market.

Tables of Market Section

Korea: Key Economic Indicators (Million of U.S. Dollars, unless otherwise noted)

| | 1995 | 1996 | 1997 1/ | 1998 1/ |
|----------------------------------|---------|---------|------------|------------|
| Real GDP Growth(percent) 2/ | 8.9 | 7.1 | 5.5 | (4.0) |
| GDP (nominal/factor cost) | 457,110 | 483,305 | 437,480 | 319,000 |
| By Sector: | | | | |
| -Agriculture/Fisheries | 29,887 | 30,330 | 24,998 | Na |
| -Manufacturing | 122,609 | 124,765 | 112,394 | Na |
| -Electricity/Gas/Water | 10,365 | 10,781 | 10,278 | Na |
| -Construction | 63,773 | 70,122 | 64,046 | Na |
| -Financial Services | 78,099 | 83,925 | 77,030 | Na |
| -Govt/Health/Education | 35,903 | 38,961 | 36,386 | Na |
| -Other | 116,474 | 124,421 | 112,348 | Na |
| Per Capita GDP (U.S.\$) | 10,037 | 10,548 | 9,511 | 6,930 |
| Labor Force(1,000) | 20,797 | 21,188 | 21,500 | 21,800 |
| Unemployment Rate(percent) | 2.0 | 2.0 | 2.5 | 8.0 |
| Retail Inflation (percent) | 4.5 | 4.9 | 4.5 | 9.4 |
| Wholesale Inflation (percent) | 4.7 | 2.8 | 3.9 | 15.0 |
| Consumer Price Index (1995 base) | 100.0 | 104.9 | 109.6 | 119.9 |
| Average Exchange Rate(Won/US\$) | 769.6 | 809.9 | 962.3 | 1,400 |
| Home Ownership Ratio(percent) 3/ | 86.1 | 89.2 | 92.0 | Na |

1/ Based on published data as of March 1998.

2/ Growth based on the Korean Won.

3/ Sourced from the Year Book of Korea Housing Statistics (Korea Housing Corporation)

Source: Economic Section and Ag. Affairs of U.S. Embassy in Seoul

Korea: Value Of Domestic Construction Orders Received by the type of construction (Billion Won)

| Year | Total | Dwellings | Others |
|--------------------------------------|--|--|--|
| 1992 1993 1994 1995 1996 | 27,861 33,246 39,394 49,025 59,535 | 10,225 15,109 16,127 18,396 21,033 | 17,636 18,137 23,267 30,656 38,502 |
| 1997 | 63,258 | 20,975 | 42,283 |

| SECTOR | 1996 | 1997 | CHANGE(%) |
|---------------------------------------|--------|--------|-----------|
| Building: | 35,229 | 35,574 | + 1.0 |
| -Dwelling | 21,033 | 20,975 | - 0.3 |
| -Office & Stores | 7,168 | 7,120 | - 0.7 |
| -Factory & Storage | 3,246 | 3,490 | + 7.4 |
| -Public Offices 1/ | 2,804 | 2,493 | -11.1 |
| -Others | 977 | 1,496 | +53.1 |
| Civil Engineering Works: | 23,932 | 27,373 | +14.4 |
| -Forestry Conservancy & Water Control | 112 | 119 | + 6.3 |
| -Agriculture & Fisheries | 405 | 568 | +40.2 |
| -Roads & Bridge | 10,023 | 10,949 | + 9.2 |
| -Harbors & Airports | 1,444 | 3,576 | +147.6 |
| -Railways &Track | 1,646 | 2,914 | +77.0 |
| -Water Supply & Sewage | 1,596 | 1,670 | + 4.6 |
| -Generation of Electricity 2/ | 2,498 | 1,973 | -21.0 |
| -Land Development | 3,357 | 3,181 | -5.2 |
| -Dams | 22 | 92 | +318.2 |
| -Installation of Machinery | 2,488 | 1,897 | -23.8 |
| -Others | 342 | 434 | +26.9 |
| Other Construction | 373 | 310 | -16.9 |
| Total | 59,535 | 63,258 | +6.3 |

- 1/ Including schools and hospitals
- 2/ Including transmission transformation, distribution
- 3/ Including gardens and grounds

Source: National Statistical Office (NSA)

Korea: Building Construction Permits (Floor area, Thousand Square meters)

1) By Structure

| Year | Total | Ferro-Concrete | Brick & Stone | Wooden | Others |
|------|---------|----------------|---------------|--------|--------|
| | | | | | |
| 1994 | 116,211 | 102,727 | 8,527 | 123 | 4,854 |
| 1995 | 117,327 | 103,134 | 9,086 | 89 | 5,022 |
| 1996 | 113,820 | 101,940 | 7,193 | 131 | 4,557 |
| 1997 | 113,374 | 104,214 | 5,105 | 173 | 3,881 |

2) By Use

| Year Total | Dwelling | Commercial | Factory | Educational | Other |
|--------------|----------|------------|---------|-------------|-------|
| | | | | & Social | |
| 1994 116,211 | 63,387 | 27,501 | 13,291 | 5,936 | 6,107 |
| 1995 117,327 | 62,614 | 28,549 | 13,727 | 6,281 | 6,157 |
| 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 |

Source: Ministry of Construction and Transportation (MOCT)

Korea: Housing Starts ('000 units)

| Year | Total |
|---------|-------|
| 1992 | 575 |
| 1993 | 695 |
| 1994 | 623 |
| 1995 | 619 |
| 1996 | 592 |
| 1997 | 596 |
| 1998 1/ | 500 |

1/ Projection

Source: Ministry of Construction and Transportation

Korea: Import of Wood Frame Housing Per Country (Unit: 1,000 US\$ on a CIF basis)

| Country | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|---------------|-------|-------|-------|--------|--------|--------|
| United States | 2,181 | 1,227 | 2,282 | 7,665 | 14,400 | 17,152 |
| Canada | 131 | 171 | 434 | 1,138 | 5,305 | 8,627 |
| Finland | 284 | 453 | 1,058 | 724 | 1,148 | 1,424 |
| Sweden | - | - | 320 | 45 | 44 | 98 |
| New Zealand | - | - | - | 304 | 121 | 345 |
| Australia | - | - | - | 106 | 443 | 515 |
| Russia | - | - | - | 10 | 218 | 189 |
| EU | - | - | - | 744 | 478 | 473 |
| Others | 3 | 7 | 72 | 307 | 503 | 370 |
| | | | | | | |
| Total | 2,599 | 1,858 | 4,166 | 11,043 | 22,660 | 29,193 |

Source: Korea Customs Service

| Year | Vehicle 1/ | Furniture 2/ | Sinkboard | Musical | Instruments |
|------|---------------|--------------|-----------|---------|-------------|
| | | | | Pianos | Guitars 3/ |
| 1992 | 762 | 1410 | 2714 | 267 | 1370 |
| 1993 | 616 | 1392 | 2797 | 245 | 1342 |
| 1994 | 603 | 1305 | 3205 | 212 | 1391 |
| 1995 | 624 | 1303 | 3013 | 212 | 1500 |
| 1996 | 625 | 1213 | 2808 | 166 | 1400 |
| 1997 | 563 | 1162 | 2702 | 134 | 1300 |

Korea: Production of Wood-Based Products (1,000 pieces)

1/ Bus, truck, and shipping container

2/ Freestanding wood-based furniture

3/ KMIIA's estimated data because official stat. doesn't include the number of guitars products made by small-medium sized companies.

Source: National Statistical Office (NSO) and

Korea Musical Instrument Industry Association (KMIIA)

Trade

Overview

In 1997, Korean imports of all wood products decreased to US\$2.37 billion, down 7.5 percent from the 1996 import level of US\$ 2.57 billion. The contraction in the construction sector led the country's decline in demand for all imported wood products. The exception was veneer. Import demand increased, in part, due to the halving of its import tariff to 2.5 percent.

Korea is actively participating in the Asia-Pacific Economic Council's (APEC) early-sectorial liberalization negotiations for forestry products. Domestic interests have been very vocal against Korea's early liberalization of this sector. Negotiations are scheduled to be conclude within the next year. Even with full market liberalization, Korean imports of forestry products are not expected to increase substantially.

Outlook

The 1998 forecast issued by the Forestry Administration projected Korean demand for wood products to reach only 24.4 million cubic meters, a decrease of 5.8 percent from the 1997 level. Import demand was projected at 7.7 million cubic meters for round logs and 15.2 million cubic meters for (round wood equivalent) of lumber, plywood, veneer, particle board, MDF, building products, wooden flooring and other types of wood products. This forecast has not been modified.

However, trade data for January-April 1998, show total imports down more than 50 percent from the comparative period in 1997. Data reveal sluggish import demand from all industries (e.g., construction, furniture, interior and other wood related industries).

Over the next 3-5 years, trade volume is expected to rebound in tandem with the economy. In addition to APEC, trade negotiations under the WTO are scheduled to commence by the end of 1999. Between the two, APEC and WTO, markets for specific wood products should benefit if hoped for reductions in tariffs are agreed to.

Domestic Factors Effecting Trade

Domestic interests have been very vocal against Korea's early liberalization of the forest products sector. Their argument has been that the economic hardships the country is experiencing this year is the direct result of the market liberalization measures implemented by the government in recent years. Therefore, in the name of protecting the domestic industry, they are arguing against early liberalization of the market.

Market Development Strategies

The overall size of the domestic market will contract in unison with the economy. In the short-term, market maintenance should be the operative objective. In the mid-to-longer term, market expansion should be more feasible.

Trade Data and PS&D Tables

| | 199 | 95 | 199 | 96 | 199 | 97 |
|------------------------|--------|-------|--------|-------|--------|------------|
| HS Number/Type | Volume | Value | Volume | Value | Volume | Value |
| | | 100 | | | | - - |
| 4401 Wood Chips 1/ | 656 | 102 | 647 | 99 | 753 | 95 |
| 4403 Logs | 8229 | 1047 | 8138 | 963 | 8266 | 877 |
| 4407 Lumber | 946 | 409 | 1103 | 465 | 1003 | 452 |
| 4408 Veneer | 61 | 49 | 72 | 64 | 407 | 112 |
| 4409 Finished Lumber 1 | / 100 | 114 | 117 | 142 | 95 | 120 |
| 4410 Particle Board | 498 | 91 | 408 | 77 | 293 | 54 |
| 4411 Fiber Board | 72 | 40 | 53 | 26 | 58 | 25 |
| 4412 Plywood | 1307 | 594 | 1061 | 531 | 949 | 449 |
| 4418 Door & Window 1/ | 56 | 80 | 69 | 110 | 69 | 101 |
| All Others | NA | 79 | NA | 91 | NA | 116 |
| Grand Total | NA | 2605 | NA | 2568 | NA | 2375 |

Korea: Total Forest Product Imports ('000 cum and \$ Million)

1/ based on 1,000 MT

Source: Korea Customs Service (KCS) for value and some volumes, Korea Forestry Administration (KFA) for volumes of panel products and FAS Seoul for volumes of logs and lumber.

Korea: Imports of Forest Products: (Unit: 000 US\$ on a CIF basis)

| HS No | D. Description | 1996 | 1997 | Change (%) |
|-------|------------------------|-----------|-----------|------------|
| 4401 | Chips | 99,335 | 95,183 | -4.2 |
| 4403 | Logs | 963,172 | 877,117 | -8.9 |
| 4407 | Lumber | 465,016 | 452,520 | -2.6 |
| 4408 | Veneer | 63,982 | 111,708 | +74.6 |
| 4410 | Particle board | 77,049 | 53,651 | -30.4 |
| 4411 | Fiberboard | 26,226 | 25,350 | -3.3 |
| 4412 | Plywood | 531,451 | 449,052 | -15.5 |
| 4415 | Package | 5,871 | 5,267 | -10.2 |
| 4418 | Door and Window | 110,533 | 100,970 | -8.7 |
| | Other Articles of Wood | 225,691 | 204,756 | -9.2 |
| Т | otal | 2,568,326 | 2,375,574 | -7.5 |

Korea: Imports of U.S. Forest Products: (Unit: 000 US\$ on a CIF basis)

| HS No. Description | | 1996 | 1997 | Change |
|--------------------|------------------------|---------|---------|--------|
| | | | | (%) |
| 4401 | Chips | 38,055 | 22,333 | -41.3 |
| 4403 | Logs | 158,840 | 144,998 | -8.7 |
| 4407 | Lumber | 90,327 | 95,438 | +5.7 |
| 4408 | Veneer | 13,746 | 13,564 | -1.3 |
| 4410 | Particle board | 6,336 | 8,207 | +29.5 |
| 4411 | Fiberboard | 10,145 | 9,232 | -9.0 |
| 4412 | Plywood | 6,281 | 5,351 | -14.8 |
| 4418 | Door and Window | 18,144 | 18,830 | +3.8 |
| C | Other Articles of Wood | 6,776 | 6,995 | +3.2 |
| | | | | |
| Т | otal | 348,650 | 324,948 | -6.8 |

Korea: Imports of Wood Frame Housing

(Unit: 000 US\$ on a CIF basis)

| Products | 1996 | 1997 | Change |
|------------|--------|--------|--------|
| | | (%) | |
| From World | 22,661 | 29,193 | +28.8 |
| U.S.A. | 14,400 | 17,152 | +19.1 |

Korea: Imports of Forest Products (Unit: 000 US\$ on a CIF basis)

| HS No | b. Description | 1997 (1-4) | 1998 (1-4) | Change (%) |
|-------|------------------------|------------|------------|------------|
| 4401 | Chips | 31,862 | 24,951 | -21.7 |
| 4403 | Logs | 271,434 | 132,825 | -51.1 |
| 4407 | Lumber | 158,411 | 61,392 | -61.2 |
| 4408 | Veneer | 29,858 | 16,702 | -44.1 |
| 4410 | Particle board | 18,793 | 9,977 | -46.9 |
| 4411 | Fiberboard | 9,397 | 3,447 | -63.3 |
| 4412 | Plywood | 168,681 | 49,021 | -70.9 |
| 4418 | Door and Window | 32,755 | 12,242 | -62.6 |
| C | Other Articles of Wood | 74,448 | 29,540 | -60.3 |
| | | | | |
| Т | otal | 795,643 | 340,097 | -57.3 |

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Korea: Imports of U.S. Forest Products (Unit: 000 US\$ on a CIF basis)

| HS No | o. Description | 1997 (1-4) | 1998 (1-4) | Change |
|-------|-----------------------|------------|------------|--------|
| | | | | (%) |
| 4401 | Chips | 7,309 | 8,649 | +18.3 |
| 4403 | Logs | 37,736 | 19,405 | -48.6 |
| 4407 | Lumber | 35,088 | 11,645 | -66.8 |
| 4408 | Veneer | 5,002 | 1,730 | -65.4 |
| 4410 | Particle board | 2,376 | 1,283 | -46.0 |
| 4411 | Fiberboard | 3,457 | 950 | -72.5 |
| 4412 | Plywood | 1,180 | 666 | -43.6 |
| 4418 | Door and Window | 5,076 | 2,481 | -51.1 |
| C | Other Articles of Woo | d 2,436 | 985 | -59.6 |
| Т | otal | 99,658 | 47,794 | -52.0 |

Korea: Imports of Wood Frame House (Unit: 000 US\$ on a CIF basis)

| | 1997 (1-4) | 1998 (1-4) | Change(%) |
|------------|------------|------------|-----------|
| From World | 8,037 | 2,530 | -68.5 |
| U.S.A. | 5,592 | 997 | -82.2 |

| PSD Table Country: Korea, Republic of Commodity: Softwood Lumber | | | | | | |
|--|------|---------|-----|---------|-----|---------|
| | | 1997 | | 1998 | | 1999 |
| | Old | New | Old | New | Old | New |
| Market Year Begin | | 01/1997 | | 01/1998 | | 01/1999 |
| Production | 4700 | 4460 | 0 | 3000 | 0 | 3500 |
| Imports | 400 | 352 | 0 | 200 | 0 | 250 |
| TOTAL SUPPLY | 5100 | 4812 | 0 | 3200 | 0 | 3750 |
| Exports | 30 | 19 | 0 | 10 | 0 | 10 |
| Domestic Consumption | 5070 | 4793 | 0 | 3190 | 0 | 3740 |
| TOTAL DISTRIBUTION | 5100 | 4812 | 0 | 3200 | 0 | 3750 |
| | | | | | | |

| Export Trade Mat Country: Korea, R Commodity: Softw Time period: | epublic of | Units: 10 | 00 CUM |
|---|------------|-----------|--------|
| Exports for | 1996 | | 1997 |
| U.S. | 0 | U.S. | 0 |
| Others | | Others | |
| Japan | 28 | Japan | 17 |
| Total for Others | 28 | | 17 |
| Others not listed | 1 | | 2 |
| Grand Total | 29 | | 19 |

| Import Trade Matri Country: Korea, Re Commodity: Softwo Time period: | public of | Units: 1000 C | UM |
|---|-----------|---------------|------|
| Imports for | 1996 | | 1997 |
| U.S. | 26 | U.S. | 19 |
| Others | | Others | |
| Canada | 41 | Canada | 50 |
| New Zealand | 91 | New Zealand | 77 |
| Chile | 144 | Chile | 130 |
| Russia | 17 | Russia | 8 |
| | | Brazil | 30 |
| | | | |
| Total for Others | 293 | | 295 |
| Others not listed | 47 | | 38 |
| Grand Total | 366 | | 352 |

Korea: Softwood Lumber Imports From U.S. (1000 CUM and \$ Thousand)

| | 1995 | | 1996 | | 1997 | |
|------------------|--------|--------|----------|-------|--------|--------|
| Species | Volume | Value | Volume V | Value | Volume | Value |
| Cedar | - | 187 | 2 | 498 | - | 134 |
| Douglas Fir | 6 | 1,091 | 2 | 966 | 1 | 461 |
| Whitewood or Fir | 7 | 1,404 | 4 3 | 3,813 | 5 | 3,482 |
| Spruce | 21 | 20,609 | 11 12 | 2,845 | 9 | 11,011 |
| Other | 11 | 4,806 | 7 5 | 5,419 | 4 | 5,691 |
| TOTAL | 45 | 28,907 | 26 23 | 3,541 | 19 | 20,779 |

Source: Korea Customs Service (KCS)

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| PSD Table | | | | | | |
|---|--------|---------|-----|---------|-----|---------|
| Country: Korea, Republic of Commodity: Tropical Hardwood | Lumber | | | | | |
| Commonly. Hopicar Hardwood | Lumber | 1997 | | 1998 | | 1999 |
| | Old | New | Old | New | Old | New |
| Market Year Begin | | 01/1997 | | 01/1998 | | 01/1999 |
| Production | 150 | 364 | 0 | 200 | 0 | 250 |
| Imports | 450 | 402 | 0 | 200 | 0 | 250 |
| TOTAL SUPPLY | 600 | 766 | 0 | 400 | 0 | 500 |
| Exports | 0 | 0 | 0 | 0 | 0 | 0 |
| Domestic Consumption | 600 | 766 | 0 | 400 | 0 | 500 |
| TOTAL DISTRIBUTION | 600 | 766 | 0 | 400 | 0 | 500 |
| | | | | | | |
| | | | | | | |

| Export Trade Matr Country: Korea, R Commodity: Tropi Time period: | Units: 1000 CUM er | | |
|--|-----------------------|--------|------|
| Exports for | 1996 | | 1997 |
| U.S. | 0 | U.S. | 0 |
| Others | | Others | |
| Total for Others | 0 | | 1 |
| Others not listed | | | |
| Grand Total | 0 | | 1 |

| Import Trade Matrix Country: Korea, Repu Commodity: Tropical Time period: | | Units: umber | |
|--|------|-----------------|------|
| Imports for | 1996 | | 1997 |
| U.S. | 1 | U.S. | 1 |
| Others | | Others | |
| Malaysia | 379 | Malaysia | 303 |
| Indonesia | 82 | Indonesia | 66 |
| | | | |
| Total for Others | 461 | | 369 |
| Others not listed | 28 | | 32 |
| Grand Total | 490 | | 402 |

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| PSD Table Country: Korea, Republic of Commodity: Temperate Hardwood Lumber | | | | | | | |
|--|-----|---------|-----|---------|-----|---------|--|
| | | 1997 | | 1998 | | 1999 | |
| | Old | New | Old | New | Old | New | |
| Market Year Begin | | 01/1997 | | 01/1998 | | 01/1999 | |
| Production | 100 | 68 | 0 | 40 | 0 | 50 | |
| Imports | 200 | 249 | 0 | 150 | 0 | 200 | |
| TOTAL SUPPLY | 300 | 317 | 0 | 190 | 0 | 250 | |
| Exports | 0 | 3 | 0 | 0 | 0 | 0 | |
| Domestic Consumption | 300 | 314 | 0 | 190 | 0 | 250 | |
| TOTAL DISTRIBUTION | 300 | 317 | 0 | 190 | 0 | 250 | |
| | | | | | | | |

| Export Trade Matrix Country: Korea, Rep Commodity: Tempera Time period: | ublic of | od Lumbe | Units: 1000 CUM r |
|--|----------|----------|----------------------|
| Exports for | 1996 | | 1997 |
| U.S. | 0 | U.S. | 0 |
| Others | | Others | |
| | | Japan | 2 |
| | | | |
| Total for Others | 0 | | 2 |
| Others not listed | | | 1 |
| Grand Total | 0 | | 3 |

| Import Trade Matrix | |
|--|-----------------|
| Country: Korea, Republic of | Units: 1000 CUM |
| Commodity: Temperate Hardwood I | Lumber |
| Time period: | |

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| Imports for | 1996 | | 1997 |
|-------------------|------|-------------|------|
| U.S. | 99 | U.S. | 156 |
| Others | | Others | |
| China | 56 | China | 46 |
| Canada | 12 | Canada | 9 |
| | | Malaysia | 9 |
| | | New Zealand | 4 |
| | | E.U. | 6 |
| | | | |
| Total for Others | 68 | | 74 |
| Others not listed | 24 | | 19 |
| Grand Total | 191 | | 249 |

Korea: Hardwood Lumber Imports From U.S. (1000 CUM and \$ Million)

| | 199 | 95 | 1996 | | 1997 | |
|----------|--------|-------|--------|-------|--------|-------|
| Species | Volume | Value | Volume | Value | Volume | Value |
| Oak | 67 | 34 | 43 | 37 | 84 | 37 |
| Maple | 20 | 13 | 21 | 15 | 50 | 23 |
| Poplar | 5 | 2 | 3 | 1 | 2 | 1 |
| Basswood | 3 | 2 | 3 | 2 | 1 | 1 |
| Walnut | - | - | - | - | - | - |
| Ash | 5 | 2 | 3 | 2 | 2 | 2 |
| Other | 16 | 8 | 26 | 9 | 17 | 10 |
| TOTAL | 116 | 61 | 99 | 66 | 156 | 74 |

Source: Korea Customs Service (KCS)

| PSD Table Country: Korea, Republic of Commodity: Hardwood Veneer | | | |
|--|------|------|------|
| | 1997 | 1998 | 1999 |

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| | Old | New | Old | New | Old | New |
|----------------------|-----|---------|-----|---------|-----|---------|
| Market Year Begin | | 01/1997 | | 01/1998 | | 01/1999 |
| Production | 0 | 0 | 0 | 0 | 0 | 0 |
| Imports | 102 | 407 | 0 | 500 | 0 | 550 |
| TOTAL SUPPLY | 102 | 407 | 0 | 500 | 0 | 550 |
| Exports | 0 | 0 | 0 | 0 | 0 | 0 |
| Domestic Consumption | 102 | 407 | 0 | 500 | 0 | 550 |
| TOTAL DISTRIBUTION | 102 | 407 | 0 | 500 | 0 | 550 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| Export Trade Matrix Country: Korea, Republic of Units: 1 Commodity: Hardwood Veneer Time period: | | | | ts: 1000 CUM |
|---|------|--------|--|--------------|
| Exports for | 1996 | | | 1997 |
| U.S. | | U.S. | | |
| Others | | Others | | |
| Total for Others | 0 | | | 0 |
| Others not listed | | | | |
| Grand Total | 0 | | | 0 |

| Import Trade Matrix Country: Korea, Rep Commodity: Hardwo Time period: | ublic of | Units: 100 | 00 CUM |
|---|----------|------------|--------|
| Imports for | 1996 | | 1997 |
| U.S. | 6 | U.S. | 6 |
| Others | | Others | |
| Malaysia | 48 | Malaysia | 301 |
| Brazil | 21 | Brazil | 70 |
| Chile | 17 | Chile | 18 |
| China | 6 | China | 6 |
| Indonesia | 1 | Indonesia | 1 |
| | | | |
| Total for Others | 93 | | 396 |
| Others not listed | 3 | | 4 |
| Grand Total | 102 | | 406 |

Korea: Total Veneer Imports By Origin 1/ (1,000 CUM, \$ Million)

| | 199 | 5 | 19 | 96 | 1997 | , |
|---------------|-----------|-------|--------|-------|--------|-------|
| Countries | Volume | Value | Volume | Value | Volume | Value |
| United States | s 9 | 19 | 6 | 14 | 6 | 14 |
| Malaysia | , J 31 | 9 | 48 | 17 | 301 | 44 |
| Chile | 8 | 3 | 17 | 6 | 18 | 6 |
| Brazil | 7 | 3 | 21 | 9 | 70 | 29 |
| China | 2 | 1 | 6 | 4 | 6 | 5 |
| Indonesia | 1 | 1 | 1 | 1 | 1 | 1 |
| PNG | - | - | - | - | - | - |
| Other | 2 | 12 | 3 | 14 | 4 | 14 |
| | | | | | | |
| Total | 61 | 50 | 102 | 64 | 407 | 112 |

1/ Included softwood veneer

Source: Korea Plywood Industry Association (KPIA)

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Korea: 1997 Veneer Imports Per Species (CUM and \$ 1,000)

| Species | From Wo | orld | From the U.S. |
|------------------|----------|-----------------|---|
| 1 | Volume | Value | Volume Value |
| Softwood Veneer: | 60,157 | 24,067 | 887 2,810 |
| Cedar | 15,069 | 24,007 7,488 | 796 2,409 |
| Oregon Pine | 13,009 | 7,400 0 | |
| White Wood/Fir | - | 4 | $\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$ |
| Larch | 40 | 4 39 | $\begin{array}{ccc} 0 & 0 \\ 0 & 0 \end{array}$ |
| Spruce | 40 89 | 548 | 37 194 |
| Radiata Pine | 7,946 | 2,787 | |
| Others | 37,012 | 13,201 | 54 207 |
| Others | 57,012 | 15,201 | 54 207 |
| Hardwood Veneer: | 346,408 | 87,478 | 4,961 10,757 |
| Meranti | 2,563 | 1,429 | 0 0 |
| Mahogany | 12 | 17 | 0 0 |
| Teak | 68 | 316 | 0 0 |
| Others | 62,914 | 23,124 | 0 0 |
| Rosewood | 11 | 90 | 0 0 |
| Ebonywood | 11 | 61 | 0 0 |
| Ash | 46 | 562 | 11 55 |
| Walnut | 484 | 2,158 | 499 2,156 |
| Others | 1,058 | 3,992 | 405 616 |
| Ligum Viate | 0 | 0 | 0 0 |
| Poplar | 9 | 12 | 0 0 |
| Maple | 1,899 | 4,331 | 1,726 3,533 |
| Elm | 2 | 33 | 0 0 |
| Birch | 1,129 | 583 | 18 49 |
| Basswood | 12 | 68 | 5 66 |
| Paulownia | 485 | 359 | 0 0 |
| Tropical woods | 197,328 | 13,847 | 60 87 |
| Others | 78,378 | 36,496 | 2,236 4,190 |
| Total | 406,565 | 111,545 | 5,848 13,567 |

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| PSD Table Country: Korea, Republic of Commodity: Softwood Plywood | | | | | | |
|---|-----|---------|-----|---------|-----|---------|
| | | 1997 | | 1998 | | 1999 |
| | Old | New | Old | New | Old | New |
| Market Year Begin | | 01/1997 | | 01/1998 | | 01/1999 |
| Production | 400 | 608 | 0 | 300 | 0 | 400 |
| Imports | 30 | 27 | 0 | 15 | 0 | 20 |
| TOTAL SUPPLY | 430 | 635 | 0 | 315 | 0 | 420 |
| Exports | 0 | 32 | 0 | 15 | 0 | 20 |
| Domestic Consumption | 430 | 603 | 0 | 300 | 0 | 400 |
| TOTAL DISTRIBUTION | 430 | 635 | 0 | 315 | 0 | 420 |
| | | | | | | |

| Export Trade Matrix Country: Korea, Republic of Commodity: Softwood Plywood Time period: | | | Units: | 1000 CUM |
|---|------|--------|--------|----------|
| Exports for | 1996 | | | 1997 |
| U.S. | 0 | U.S. | | 0 |
| Others | | Others | | |
| | | China | | 25 |
| | | E.U. | | 7 |
| Total for Others | 0 | | | 32 |
| Others not listed | 0 | | | 0 |
| Grand Total | 0 | | | 32 |

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| PSD Table Country: Korea, Republic of Commodity: Hardwood Plywood | | | | | | |
|---|------|---------|-----|---------|-----|---------|
| | | 1997 | | 1998 | | 1999 |
| | Old | New | Old | New | Old | New |
| Market Year Begin | | 01/1997 | | 01/1998 | | 01/1999 |
| Production | 450 | 406 | 0 | 200 | 0 | 300 |
| Imports | 1000 | 922 | 0 | 500 | 0 | 600 |
| TOTAL SUPPLY | 1450 | 1328 | 0 | 700 | 0 | 900 |
| Exports | 30 | 22 | 0 | 10 | 0 | 20 |
| Domestic Consumption | 1420 | 1306 | 0 | 690 | 0 | 880 |
| TOTAL DISTRIBUTION | 1450 | 1328 | 0 | 700 | 0 | 900 |
| | | | | | | |

| Export Trade Math Country: Korea, R Commodity: Hardy Time period: | epublic of | Units: 10 | 000 CUM |
|--|------------|-------------|---------|
| Exports for | 1996 | | 1997 |
| U.S. | 0 | U.S. | 0 |
| Others | | Others | |
| China | 27 | China | 17 |
| Netherlands | 11 | Netherlands | 5 |
| Total for Others | 38 | | 22 |
| Others not listed | 4 | | 0 |
| Grand Total | 42 | | 22 |

| Import Trade Mat Country: Korea, R Commodity: Hardy Time period: | epublic of | Units: 1 | 1000 CUM |
|---|------------|-----------|----------|
| Imports for | 1996 | | 1997 |
| U.S. | 0 | U.S. | 0 |
| Others | | Others | |
| Indonesia | 673 | Indonesia | 487 |
| Malaysia | 312 | Malaysia | 310 |
| China | 29 | China | 92 |
| Singapore | 8 | Singapore | 9 |
| | | | |
| Total for Others | 1022 | | 898 |
| Others not listed | 14 | | 24 |
| Grand Total | 1036 | | 922 |

Korea: Logs Imports For Plywood Processing Purpose (Unit: 1,000 CUM)

| Year | Hardwood | Softwood | Total |
|------|----------|----------|-------|
| | | | |
| 1992 | 1,897 | 0 | 1,897 |
| 1993 | 1,194 | 171 | 1,365 |
| 1994 | 1,101 | 350 | 1,451 |
| 1995 | 829 | 654 | 1,483 |
| 1996 | 675 | 732 | 1,407 |
| 1997 | 567 | 858 | 1,425 |

Source: AgAff's estimates based on the data of Korea Plywood Industries Association.

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Production

Forest Situation

Korea is a small, mountainous country approximately the size of Indiana. Total forested area is about 6.45 million hectares (ha.), approximately 65 percent of the total land area. Korea's forests are located predominantly in the cool-temperate zone. A small section of Korea's forest is located in the warm-temperate zone along the southern coast.

Most stands were destroyed during the Korean War and have been transformed into pine forests under a massive government reforestation program. The reforestation program has been carried out over the past three decades through a series of 10-year forest development plans. The objective of the current plan--which expires next year--is to harmonize the twin goals of sustainable development and improved public access. Forest access is difficult due to topographical barriers. The Korean government is also seeking to ensure sustainable lumber supplies by supporting the local industry's efforts to participate in development and reforestation efforts overseas.

Solid Wood Products Overview

The 1997 Roundwood harvest was 1,062,000 CUM, down 11 percent from the 1,915,000 CUM of 1996 with softwood accounting for 80 percent and temperate hardwood for 20 percent. Red pine is by far the major species harvested in Korea. Because of low quality, domestic Roundwood is mainly utilized for chopsticks, crates, match wood, pitprops, woodchips for pulp and lumber. The self-sufficiency rate of roundwood in 1997 was approximately 11 percent of total roundwood consumption.

The domestic wood products industry used to be one of Korea's largest export-oriented industries. This was especially true in the primary processing industries of lumber and plywood. However, rising labor costs and sharply higher import prices for logs are beginning to force an increasing number of manufacturers to Southeast Asia and China. In contrast, the production of fiberboard and particle board continues to grow rapidly. This is due in large part to the continued growth of related Korean industries--such as automobiles and electronics--and the manufacture of furniture and musical instruments.

Tables of Production Section

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| Korea: 1997 Growing Stocks By Age Of Trees ('000 CUM, Beginning of Year) | | | | | | |
|---|----------|----------------------------|--------|--------|-------|-----------------------------|
| | 11-20 | 21-30 | 31-40 | 41-50 | 51+ | Total |
| Conifers Non-Conifers Mixed | 5 15,551 | 59,010 37,660 34,475 | 20,205 | 12,568 | 4,224 | 144,843 90,208 88,730 |
| Total | 105,990 | 131,145 | 53,303 | 24,187 | 9,156 | 323,781 |

Source: Korea Forestry Administration (KFA)

Korea: Supply of Domestic Timber (1,000 CUM)

| Year | Pit props | Pulp | Lumber and others | Total |
|------|-----------|------|-------------------|-------|
| 1992 | 343 | 378 | 402 | 1,123 |
| 1993 | 227 | 340 | 611 | 1,184 |
| 1994 | 176 | 385 | 612 | 1,173 |
| | | | | |
| 1995 | 139 | 405 | 512 | 1,055 |
| 1996 | 109 | 392 | 694 | 1,195 |
| 1997 | 104 | 367 | 591 | 1,062 |

Source: Korea Forestry Administration

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Korea: Wood Products Production ('000 CUM)

| | 1993 | 1994 | 1995 | 1996 | 1997 |
|--------------------|---------|---------|---------|---------|---------|
| Softwood Lumber | 4,219 | 4,460 | 4,972 | 4,660 | 4,460 |
| Trop. Hdwd. Lumber | 572 | 365 | 158 | 193 | 364 |
| Temp. Hdwd. Lumber | 25 | 18 | 23 | 86 | 68 |
| (Total) | (4,816) | (4,789) | (5,153) | (4,939) | (4,892) |
| Plywood | 795 | 799 | 861 | 896 | 1,014 |
| Fiberboard | 407 | 505 | 614 | 744 | 750 |
| Particle Board | 435 | 524 | 548 | 659 | 720 |

Source: Agaff estimates, Korea Plywood Industry Association (KPIA)

Korea: Supply and Demand of Wood Products (Unit: 1,000 CUM, Roundwood Basis)

| | 1996 | 1997 | 1998 |
|-----------------|---------------|---------------|---------------|
| Supply Domestic | 27040 1195 | 26452 1062 | 24405 1532 |
| Import | 26209 | 25390 | 22873 |
| Demand | 27404 | 26452 | 24405 |
| Pit Props | 109 | 104 | - |
| Plywood/Veneer | 3428 | 4209 | - |
| Board | 1883 | 1602 | - |
| Pulp | 9586 | 8320 | - |
| Lumber/Others | 12398 | 12217 | - |

Source: Korea Forestry Administration