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This report summarizes a study conducted by the South Carolina Forestry Commission on this Asian market during the second half of 2015, and it is intended to help the U.S. Southern states’ forest products sector (producers, manufacturers, traders and policy-makers) in examining and preparing for the opportunities this market may offer, by providing them with detailed information on India's economics, wood fiber network, trade flows and international contacts. This document should be used as a reference, and in conjunction with primary market information from key forestry organizations, to help formulate strategies to participate in the Indian market. The South Carolina Forestry Commission will not be held liable for misuse or misinterpretation of information within this document.
INTRODUCTION

In the past 15 years India has become an important market for U.S. forest products, in particular for wood pulp, paper, paperboard and solid wood articles, and is expected to remain a top partner in the coming decades. The country’s aggressive growth targets, global competitive position, abundant human resources, fast-paced urbanization, along with other factors, are creating opportunities to grow and build new markets for U.S. wood fiber products.
Economic factors

Population
With 1.31 billion inhabitants, India is currently the world’s second most populous country, and is expected to surpass China as the country with the largest population by reaching 1.7 billion inhabitants in 2050. In 2015, the majority of India’s population (62.3%) is within 15 and 59 years old, which positions the country to have “…the largest and youngest workforce the world has ever seen” as the rest of the world’s biggest economies are aging, representing an opportunity for economic and social development, as long as this human capital is developed with skills, training and job opportunities. Its middle class is also set to become the world’s largest middle class consumer market by 2030, which is projected to grow by 1 billion through 2039. This remarkable growth in combination with a massive rural to urban migration estimated at 10 million people every year, have put investments in housing and infrastructure among the country’s main priorities.

GDP Growth
With the world’s fourth largest economy, India’s Gross Domestic Product (GDP) in 2014 was $2.067 trillion, which represented a growth of 7.4% compared to 2013, and is expected to continue growing between 7.5% and 8.0% per year the next three years, achieving the fastest growth in South Asia, and sixth-seventh worldwide. Moreover, the country has been among the top 10% of the world’s countries with the fastest economic growth since 1991, thanks mostly to the services sector, which accounted for 65% of the GDP in 2012, followed by industry and agriculture with shares of GDP of 20% and 14% respectively, in 2012.

Construction market
Within the industrial sector, construction appears to be the main driver of growth, with a share of 11% of India’s GDP. This industry provides jobs to 35 million people, and its total market size is estimated at 126 million USD, 50% of which is driven by the infrastructure sector, and the rest by industrial, commercial and residential development. Moreover, India is expected to become the world’s third largest global construction market in 2030, and the fastest growing as well. India is in the process of developing a housing start indicator and the only available data correspond to a pilot study published in February 2014, which corresponds to historical records of selected cities for 12 quarters from Q1:2009 to Q4:2011. According to the pilot report named “Trends in new construction of residential housing during 2009-2011 in 27 cities across India,” housing starts grew from 25,533.00 in the first quarter of 2009 to 57,768.00 in the fourth quarter of 2011, which corresponded to a total growth of 169% and an average yearly growth of 6.8%.

Hindu worshippers congregate on the ghats (riverfront steps) in the northern Indian city of Varanasi to bathe in the Ganges River.
During this period, 49% of new construction permits were granted for single housing units, and 51% to multiple housing units.

Solid wood products have not been historically predominant in Indian construction: according to the country’s 2011 census, the use of wood, bamboo and other materials on flooring was observed in only 3.4% of the households at that time. Similarly for wall and roof construction, wood and other materials only accounted for 5.4% and 15.58% respectively. The materials most widely used in flooring, walls and roofing were mud (46.5%), burnt bricks (47.5%), and concrete (29.0%) respectively, which are traditionally seen as materials of higher quality than wood, especially for structural applications.

However, the country’s middle class growth along with rising incomes seem to be changing these views and consumption patterns in favor of imported hardwood and softwood lumber varieties for applications in building projects, particularly for finishing and furniture uses. This context in combination with India’s latest reforms to its foreign direct investment norms for the construction sector, is expected to boost the housing markets and imports of wood products such as plywood.

**FOREST PROFILE**

**Administrative division**

The country’s administrative division consists of 29 states and 7 union territories (UT). The top five states and UT in forest cover area are: Madhya Pradesh (19.2 million acres), Arunachal Pradesh (16.6 million ac), Chhattisgarh (13.7 million ac), Maharashtra (12.5 million ac) and Odisha (12.4 million ac). The states of Arunachal Pradesh and Maharashtra comprise the largest areas of the country’s very dense forest. Figure 1 provides a visual representation of the distribution of forest cover by state and union territory.

**Forest cover**

Just as it has been observed in many developing countries, India’s aggressive pursuit of economic growth and its integration into the global economy have caused accelerated deterioration of its natural environment. Deforestation and forest degradation have become a threat to the country’s rich biodiversity and the subsistence of millions in rural areas who depend on fuel wood to meet domestic energy needs, hence the importance...
of monitoring the state of forests. The Forest Survey of India (FSI), an entity under the Ministry of Environment & Forests, Government of India, is responsible for assessing the country’s forestry and tree resources. Every two years, FSI publishes the “India State of Forest Report” (ISFR), with the results of the forest cover assessment and tree cover estimation, as well as growing stock, carbon stock, and other information based on National Forest Inventory (NFI). The adequacy of India’s monitoring and reporting systems to meet national and international requirements has been questioned in a recent study, which argues that area under forests may be potentially over-reported by including non-forest tree categories; therefore data supplied by FSI has been included in this report for reference only, and should be used with caution by readers.

India’s total forest cover in 2013 was 172.5 million ac, which corresponds to 21.2% of the country’s geographical area, and represented a slight increase of 1.5 million ac (0.84%) from 2011. This gave India a score of 35.7 out of 100 in Yale University’s 2014 Environmental Performance Index for Forests, ranking it in 57th place out of 137 countries included in the study.

Historic data indicate that from 1989 through 1997, India’s forest cover decreased at an average rate of 0.27% per year, however, from 1999 through 2013 the same grew at an average of 1.41% per year, as a result of conservation measures implemented by the country’s government. Most of the forest cover (46%) presents a moderate canopy density (40% to 70%), whereas 42% of the forest cover has a tree density between 10% and 40%. Only 12% of the country’s forest cover is considered very dense (canopy density of 70%+).

Growing stock
The estimated volume of trees (growing stock, as defined by FAO) reported for India in 2013 was 5,658.0 million m³, which represented a decrease of 389.1 million m³ (6.43%) from 2011. According to the Forest Survey of India, this was caused by the loss of moderately dense forest and harvesting of mature tree crops outside the forest area (TOF).

Almost three quarters of the country’s growing stock (4,173.6 million m³, 73.8%) is located in recorded forest areas, and the remaining quarter in TOF areas (1,484.7 million m³, 26.2%). The forest areas with maximum growing stock are located in the western and eastern Himalayas regions, (north and northeast of the country respectively), and in the East Deccan region (east of the country).

The top three states in growing stock were: Arunachal Pradesh, Uttarakhand and Chhattisgarh, which accounted for 9.3%, 8.7% and 7.5% of the total growing stock respectively.

Agroforestry system
As of 2003, it is estimated that approximately 50% of India’s wood fiber supply comes from non-forest resources. The other half of supply is provided by imports and local public forests and forest plantations.

The Indian agroforestry system consists of plantations within the TOF, and represents only a small fraction of the country’s geographical area and growing stock, but its study may reveal some of the trends of the wood market. It accounts for 3.4% of the country’s geographical area (27.6 million ac), and most of the tree cover is located in the West Coast (3.3 million ac), East Deccan (3.1 million ac) and Eastern Plain (2.4 million ac).

The estimated total volume of wood available in the agroforestry system of the country is 1,022.85 million m³. The top three states in growing stock within the agroforestry system are Maharashtra, Andhra Pradesh and Gujarat. Mangifera indica (common name Aam) is the species with highest growing stock within India’s agroforestry system (13.3%), and it is followed by Azadirachta indica (6.76%) and Borassus flabelliformis, two of which belong to the mahogany family.

Table 1. India’s Consumption of Forest Products in 2014

<table>
<thead>
<tr>
<th>Year</th>
<th>Item Category</th>
<th>Unit</th>
<th>Production</th>
<th>Import Quantity</th>
<th>Export Quantity</th>
<th>Consumption</th>
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</thead>
<tbody>
<tr>
<td>2014</td>
<td>Industrial RoundWood</td>
<td>m³</td>
<td>49,517,000</td>
<td>595,336</td>
<td>476</td>
<td>50,111,860</td>
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<tr>
<td>2014</td>
<td>Other Fibre</td>
<td>tonnes</td>
<td>1,995,300</td>
<td>21,029</td>
<td>491</td>
<td>2,015,838</td>
</tr>
<tr>
<td>2014</td>
<td>Paper and Paperboard</td>
<td>tonnes</td>
<td>10,247,000</td>
<td>2,400,537</td>
<td>123</td>
<td>5,708,826</td>
</tr>
<tr>
<td>2014</td>
<td>Recovered Paper</td>
<td>tonnes</td>
<td>2,640,000</td>
<td>3,068,949</td>
<td>198</td>
<td>3,805,088</td>
</tr>
<tr>
<td>2014</td>
<td>Sawnwood</td>
<td>m³</td>
<td>6,889,000</td>
<td>113</td>
<td>307,172,548</td>
<td>7,361,387</td>
</tr>
<tr>
<td>2014</td>
<td>Wood Fuel</td>
<td>m³</td>
<td>307,172,633</td>
<td>762,300</td>
<td>386,058,088</td>
<td>346,172</td>
</tr>
</tbody>
</table>
FOREST PRODUCTS

Overview
Most of India's needs for forest products consist of industrial wood products, non-timber forest products and fuelwood. Other major forest products sectors are: sawnwood products, wood-based panels, wood pulp, paper and paperboard products.

Estimated consumption of industrial roundwood products in 2014 amounted to 50.1 million m³, which includes: sawlogs and veneer logs, pulpwood and other industrial roundwood. Approximately 98.8% of supply for both India’s domestic demand and exports of this commodity came from local production, and the rest from imports. There is not an exact estimation of the country’s consumption of fuelwood, but according to FAO’s assessment, India consumed approximately 307.2 million m³ in 2014 as well. This positioned the country as the world’s major producer and consumer of fuelwood that year. Table 1 provides a summary of production and consumption of major forest products sectors in India in 2014.

Imports
India’s import of forest products amounted to $7.7 billion in 2014, which represented 1.7% of imports of all commodities in that year, positioning this sector in seventh place of importance for the country’s economy, between natural gas and cellular telephones.

The inflow of forest products from suppliers abroad has experienced a total growth of 515.2% in the last 15 years (Figure 2), from $1.25 billion in 2000 to 7.69 billion in 2014, as a result of the shortage of domestic timber resources, governmental restrictions of forestry development, and the country’s strategy to develop its secondary industry. As depicted in Figure 2, the growth in India’s consumption of forest products from international markets has remained positive for the past 15 years, with an exception between 2008 and 2009, when imports fell by $0.7 billion, from $4.6 to $3.9 billion, mostly due to the global economic recession.

The U.S. has become one of India’s key trading partners of forest products: by 2000, the country was already positioned among the top three exporters of forest products to India, and since 2012 it has remained in first place, closely followed by China and Malaysia (Figure 2). Between 2009 and 2014, forest products export from the U.S. to India increased from $343.1 million to $913.3 million, for a total growth of 167%. Similarly, China and Malaysia grew $408.4 million to $786.0 million (108.2%) and $304.4 million to $780.7 million (63.9%) during this period respectively.

Together with Myanmar, Germany and Canada, these six countries accounted for almost half of India’s total forest products imports in 2014. A total of 147 countries exported their forest products into India that year.

For the purpose of this report, forest products have been grouped into six categories (or sectors): solid wood products, wood pulp products, paper and paperboard products.
products, wood furniture, wood-based chemicals, and pulp and paper manufacturing equipment. These categories are based on the Harmonized Description and Coding System established and maintained by the World Customs Organization.

According to data from the United Nations' Statistic Division, most of India’s import of forest products in the last fifteen years, corresponded to solid wood products, paper and paperboard products, and wood pulp. Between 2000 and 2014, these three commodity groups accounted in average for more than 88% of the country’s forest products imports per year (Figure 3).

Through 2014, India imported $2.7 billion of solid wood products, which represented 35% of the total value of forest products exports for the year; whereas imports of paper and paperboard products and wood pulp amounted to $2.6 billion (34%) and $1.7 billion respectively (22%); thereby leading to a combined total of 91% of the imports for that year. Wood furniture, paper/pulp manufacturing machinery and wood-based chemicals accounted for 4%, 4% and 1%, respectively, of India’s forest products imports in 2014 as well.

Figure 4 depicts the distribution of India’s forest products import by commodity and country of origin in 2014: the columns correspond to countries, the rows to product categories, and the color coding to the strength relationship between both (i.e. darker colors for countries with higher participation of imports for a given commodity). From this chart, it can be observed that in 2014, 25% of India’s solid wood products imports came from Malaysia, 21% from Myanmar, 5% from China and 49% from other countries. Imports of paper and paperboard products were distributed as following: 15% from China, 10% from the U.S., 8% from Canada and 67% from other countries. Wood pulp – the third commodity in importance – was supplied mainly from the U.S. (34%), Canada (9%) and Malaysia (3%); whereas other countries supplied the remaining 54%. The following sections provide further details on the top three forest products categories imported by India.

### Table 2. India’s Import of Solid Wood Products: 2005-2014 (million USD)

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<tbody>
<tr>
<td>Logs</td>
<td>469.2</td>
<td>511.2</td>
<td>377.8</td>
<td>581.9</td>
<td>802.9</td>
<td>843.1</td>
<td>820</td>
<td>1115</td>
<td>1281.4</td>
<td>1137.3</td>
<td>1337.4</td>
<td>1386.5</td>
<td>2011.4</td>
<td>2032.5</td>
<td>2007</td>
</tr>
<tr>
<td>Lumber</td>
<td>3</td>
<td>11.4</td>
<td>8.4</td>
<td>7.2</td>
<td>16.7</td>
<td>21</td>
<td>21.5</td>
<td>22.7</td>
<td>32.8</td>
<td>40.1</td>
<td>57.3</td>
<td>131.4</td>
<td>160.3</td>
<td>185.1</td>
<td>205.5</td>
</tr>
<tr>
<td>Veneer</td>
<td>2.3</td>
<td>2.5</td>
<td>3.2</td>
<td>3.3</td>
<td>4.9</td>
<td>9.5</td>
<td>13.2</td>
<td>15.7</td>
<td>23</td>
<td>27</td>
<td>46.1</td>
<td>56</td>
<td>66</td>
<td>91.4</td>
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<tr>
<td>Fiberboard</td>
<td>7.8</td>
<td>10.1</td>
<td>9.5</td>
<td>12.3</td>
<td>15.7</td>
<td>25.6</td>
<td>32</td>
<td>51.8</td>
<td>13.1</td>
<td>40.4</td>
<td>77.2</td>
<td>84.5</td>
<td>92.1</td>
<td>96.2</td>
<td>87.6</td>
</tr>
<tr>
<td>Plywood</td>
<td>5</td>
<td>4.5</td>
<td>3.8</td>
<td>3.9</td>
<td>4.7</td>
<td>7.5</td>
<td>11.7</td>
<td>23.5</td>
<td>31.5</td>
<td>36.6</td>
<td>52.3</td>
<td>113.6</td>
<td>90</td>
<td>80.9</td>
<td>85.4</td>
</tr>
<tr>
<td>Wood Fuel</td>
<td>0.3</td>
<td>0.2</td>
<td>0.1</td>
<td>0.5</td>
<td>1</td>
<td>1.5</td>
<td>1.6</td>
<td>2.4</td>
<td>4.4</td>
<td>4.7</td>
<td>2</td>
<td>1.4</td>
<td>1.6</td>
<td>41.9</td>
<td>65.8</td>
</tr>
<tr>
<td>Other</td>
<td>11.4</td>
<td>13.9</td>
<td>13.4</td>
<td>18.5</td>
<td>28.8</td>
<td>50</td>
<td>70.2</td>
<td>96.7</td>
<td>92.7</td>
<td>93.2</td>
<td>144.5</td>
<td>197.4</td>
<td>195.2</td>
<td>177.6</td>
<td>160.9</td>
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### Solid wood products

India’s import of solid wood products has grown at an average rate of $179 million per year in the last 15 years, reaching a total of $2.7 billion in 2014, mostly driven by the country’s demand for logs (Table 2). Between 2000 and 2014, this commodity accounted for 81% of all solid wood products into India, amounting to $2 billion in 2014, which
included tropical species of Teak and Meranti and softwood species of pine. Malaysia and Myanmar – the major log exporters into India – accounted for 25% and 21% of all solid wood imports in 2014, respectively (Figure 5). The United States’ share of India’s import in 2014 was 2% only.

Lumber, veneer, fiberboard and other products represented 26% of imports of solid wood products in 2014, growing 12% from 2005. Figure 6 depicts India’s imports of solid wood products except logs.

The top four commodities in 2014 within this subgroup corresponded to lumber, veneer, fiberboard and plywood, with imports of $205.5, $91.4, $87.6 and $85.4 million respectively. Among these commodities, lumber has experienced the most remarkable growth in the past 6 years: 413% from 2009 to 2014, most of it coming from Germany, Indonesia, Tanzania and the U.S. (21%, 13%, 10% and 10%, respectively in 2014).

**Paper and paperboard products**

India imported $2.6 billion in paper and paperboard products in 2014, which represented 34% of the country’s forest products imports in that year, and placed this category in second place of importance after solid wood products.

Six top trading partners accounted for more than half (55%) of this figure: China, the U.S., South Korea, Canada, Germany and Russia (Figure 7). The first three countries represented 15%, 10% and 10% of India’s paper and paperboard imports in 2014 respectively. Both China and the U.S. have been alternating first and second place since 2010, followed closely by South Korea and Canada.

Most of the country’s demand of paper and paperboard products corresponds to five products: newsprint, paper and paperboard coated with kaolin, uncoated writing paper, Kraft paper and other types of coated paper. The distribution of imports by product since 2000 is provided in Table 3. Canada, South Korea and Russia are India’s main suppliers of newsprint, whereas most paper and paperboard coated with kaolin comes from China. China is the main supplier of other coated paper and paperboard products, along with the U.S. and Germany. Finally, most of the uncoated writing paper is supplied by Germany and Russia, whereas the U.S. is the main supplier of Kraft paper.

**Table 3. India’s Import of Paper and Paperboard Products by Commodity: 2000-2014 (million USD)**

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</thead>
<tbody>
<tr>
<td>Newsprint</td>
<td>239.8</td>
<td>278.6</td>
<td>230.5</td>
<td>304.2</td>
<td>391.4</td>
<td>418.4</td>
<td>536.3</td>
<td>505.5</td>
<td>890.6</td>
<td>441.8</td>
<td>771.5</td>
<td>1014.4</td>
<td>831.2</td>
<td>888.7</td>
<td>841.7</td>
</tr>
<tr>
<td>Paper, Coated</td>
<td>46.7</td>
<td>59.6</td>
<td>48.1</td>
<td>70.9</td>
<td>87.2</td>
<td>127.7</td>
<td>144.5</td>
<td>201.2</td>
<td>243</td>
<td>210</td>
<td>243.4</td>
<td>404.6</td>
<td>377.1</td>
<td>440.9</td>
<td>499.4</td>
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<tr>
<td>Kaolin</td>
<td>66.3</td>
<td>31.4</td>
<td>22.4</td>
<td>47</td>
<td>70</td>
<td>106.2</td>
<td>205.5</td>
<td>265.2</td>
<td>288.3</td>
<td>289.8</td>
<td>313.5</td>
<td>287.5</td>
<td>342.2</td>
<td>489.3</td>
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<tr>
<td>Paper, Uncoated</td>
<td>84.6</td>
<td>98.3</td>
<td>109.4</td>
<td>148.6</td>
<td>157.8</td>
<td>221.7</td>
<td>268.6</td>
<td>330.3</td>
<td>448.6</td>
<td>428.5</td>
<td>582.7</td>
<td>722.3</td>
<td>771</td>
<td>693.1</td>
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<td>Other</td>
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**Figure 5. India’s Import of Solid Wood Products by Trading Partner: 2000-2014 (billion USD)**

**Figure 6. India’s Import of Solid Wood Products (Except Logs): 2000-2014 (billion USD)**
**Wood pulp**

This category has shown positive growth over the last 15 years, from $280.9 million in 2000 to $1.6 billion in 2014, with an average growth rate of 34.6% ($97.1 million) per year.

In 2014, the U.S. was the top exporter of wood pulp into India, accounting for 34.1% ($565 million) of all the country's imports.

Canada, Sweden, Indonesia and the UEA were next in importance by supplying 8.9%, 7.4%, 6.4% and 4.7% of India's imports the same year. Almost half (45.1%) of this country's wood pulp imports in 2014 corresponded to waste paper, mainly provided by the U.S. India is currently on the world's top importer of this category.

**U.S. Exports to India**

**Overview**

India has become one of the top destinations for U.S. forest products in the last 12 years. Export to this country has grown consistently, from $114.88 million in 2002, to $873.58 million in 2014, for an average growth of $69.3.6 million per year (60.3%).

By 2014 this country was sixth in import of U.S. forest products in general, and third in wood pulp. Furthermore, 69.57% of all U.S. forest products exports to India in that year corresponded to wood pulp and 21.70% to paper and paperboard products.

Solid wood products, furniture and other wood-based products accounted for the remaining 8.73%. Most of the wood pulp exported into India (67%) in 2014, was supplied by Minnesota, Georgia, New York and New Jersey. Similarly, the main state in exports of paper and paperboard into India the same year was Washington (22%).

**Exports from the U.S. Southeast**

The potential of India as a trade partner for U.S. forest products is observable also in the Southern states in particular.

Export from the region into India amounted to $302.8 million in 2014, which represented 6% in growth since 2010 and placed India in 12th place of importance. Top three states – Georgia, South Carolina and Virginia – accounted for 77% of the region’s export into India. Georgia alone drove 45.0% of this figure, whereas South Carolina and Virginia accounted for 20.8% and 11.3% respectively. These states have been the predominant exporters from the region into India the last six years.

Figure 8 shows the distribution of exports of U.S. forest products into India by state since 2002 (based on the U.S. Census Bureau’s “Origin of Movement (OM)" state export series)

At the commodity level, the composition of export from the U.S. Southern region into India is similar to the national average. The top three commodities from the region are wood pulp, paper and paperboard and solid wood products, which in 2014 corresponded to 97.7% of the region’s total forest products export into India. The majority of exports for that year consisted in wood pulp (64.57%, $193 million), whereas paper and solid wood accounted for 18.7% ($56.0 million) and 14.45% ($43.3 million) respectively (see Figure 9).
Exports from South Carolina

South Carolina’s forest products export in 2014 amounted to a record high of $1.5 billion. The top three trading partners – China, Mexico and Canada – accounted for 7.9%, 7.7% and 7.7% respectively.

India’s import of forest products from the state totaled $64.1 million, which corresponded to 4.3% of the total for the year and ranked the country in eighth place of importance for this industry. This also represented a remarkable growth for the last 12 years, from $3.6 million in 2002.

Year-over-year growth remained positive between 2002 and 2012, but a change in this trend has been observed in the last couple of years. In 2012 export of forest products from South Carolina reached a record of $75.2 million, but fell to $71.6 million in 2013 and to $64.1 million in 2014.

The state’s mix of forest products exported to India follows a similar distribution to that observed at the regional level: wood pulp, paper and paperboard, and solid wood products are currently top commodities, which account for 42.5%, 30.3% and 24.5% of export in 2014, respectively.

Moreover, when compared with other country’s imports the same year, India occupied the seventh place in importance for wood pulp, 13th for paper and paperboard, and 2nd for solid wood products. Interestingly, both wood pulp and paper and paperboard have been top commodities in the last twelve years, but it was not until the last five years that solid wood products started gaining importance. This commodity grew from $411 thousand in 2010, to $15.7 million in 2014 (37.2% growth).

Exports from India

Overview

In the past five years, export of Indian forest products grew 35.5%, from 1.3 billion USD in 2010, to 2.0 billion USD in 2014.

The majority of forest products export in 2014 corresponded to paper products (54.6%, 1.1 billion USD), whereas exports of furniture and solid wood products accounted for 24.9% (508.9 million USD) and 17.3% (353.8 million USD) respectively, which placed these two commodities in second and third place in importance.

The market for Indian forest products is highly diverse: in 2014, the top six trading partners accounted for 46.7% of the total value of exports, whereas a group of 172 countries accounted for the remaining 53.3%. The U.S. was the main destination for forest products from India in this year, accounting for 19.2% of the total exports, which mainly consisted of furniture and solid wood products (wooden frames, packing/pallets, and others).

The second and third destinations for Indian forest products – the UAE and the UK – accounted for 7.12% and 6.47% of exports respectively, most of them corresponding to paper products.
REFERENCES


Table 4. Forest Products Trade Organizations

Kandla Timber Association
Sector: Timber Industry in the port town of Kandla and its adjacent areas
Address Line 1: Timber Bhavan
Address Line 2: Plot No. 47, Sector-8
City/Town: Gandhidham, Kuth, Gujarat
Postal Code: 370201
Website: http://kandlatimber.org/?page_id=509

Federation of Indian Plywood & Panel Industry
Sector: Plywood and Wood Panels
Address Line 1: 404, Vikrant Tower
Address Line 2: 4, Rajendra Place
City/Town: New Delhi
Postal Code: 110008
Phone: 91-11-25755649, 91-11-25862301
Fax: 91-11-25768639
email: fippi@fippi.org
Website: http://www.fippi.org/aboutus.htm

Indian Paper Manufacturers Association
Sector: Paper Manufacturing
Address Line 1: 4th Floor, PHD House
Address Line 2: 4/2 Siri Institutional Area
City/Town: New Delhi
Postal Code: 110016
Phone: 91-11-26518379, 91-11-41617188
Fax: 91-11-26518379
e-mail: sg@ipma.co.in
secretariat@ipma.co.in
Website: http://ipma.co.in/

India Pulp and Paper Technical Association
Sector: Pulp, Paper, Newsprint and Allied Industries
Address Line 1: C.P.R.R.I. Campus
Address Line 2: P.O.Box 47
City/Town: Saharanpur
Postal Code: 247001
Phone: 91-13-2721904
Fax: 91-13-2726345
e-mail: ipptaonline@ipptaonline.org
Website: http://www.ipptaonline.org/

Association of Furniture Manufacturers and Traders
Sector: Furniture Industry
Address Line 1: Lakhi Industry House
Address Line 2: L.B.S Marg
City/Town: Bhandup West, Mumbai
Postal Code: 400078
Phone: 91-22-3244 0508
Fax: 91-22-26256287
e-mail: info@afmt.in
Website: http://www.afmt.in/

Builders Association of India
Sector: Engineering Construction Contractors & Builders
Address Line 1: G-1/G-20, Commerce Centre
Address Line 2: J. Dadajee Road
City/Town: Tardeo, Mumbai
Postal Code: 400034
Phone: 91-22-23514134, 91-22-23514802, 91-22 23520507
Fax: 91-22-23521328
e-mail: baihq.mumbai@gmail.com
Website: http://www.baionline.in/

Table 5. Major Woodworking Trade Fairs in India

<table>
<thead>
<tr>
<th>Event</th>
<th>City, State</th>
<th>Country</th>
<th>Category</th>
<th>Date</th>
<th>Description</th>
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<tbody>
<tr>
<td>Indiawood</td>
<td>Bangalore, Karnataka, India</td>
<td>India</td>
<td>International</td>
<td>February, even years</td>
<td>Furniture Production Technology Woodworking Machinery Tools, fittings, Accessories Raw Materials Products</td>
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<td></td>
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</tr>
<tr>
<td>Delhiwood</td>
<td>Greater Noida, Uttar Pradesh</td>
<td>India</td>
<td>International</td>
<td>February, odd years</td>
<td>Furniture Production Technology Woodworking Machinery Tools, fittings, Accessories Raw Materials Products</td>
</tr>
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<td></td>
<td><a href="http://www.delhi-wood.com">http://www.delhi-wood.com</a></td>
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</tr>
<tr>
<td>Mumbaiwood</td>
<td>Goregaon, Mumbai, India</td>
<td>India</td>
<td>International</td>
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<td>Furniture Production Technology Woodworking Machinery Tools, fittings, Accessories Raw Materials Products</td>
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<td></td>
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</tr>
<tr>
<td>WoodTech India</td>
<td>Chennai, Tamil Nadu, India</td>
<td>India</td>
<td>International</td>
<td>August, yearly</td>
<td>Wood and Wood Products Woodworking Machinery Engineered Wood Products Furniture Hardware &amp; Fittings Adhesives</td>
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<td></td>
<td><a href="http://www.woodtechindia.in">http://www.woodtechindia.in</a></td>
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</tr>
</tbody>
</table>
Expanded market opportunities encourage non-industrial forest landowners to exercise sound management practices on their land. Thanks to adequate markets and a favorable return on their timber investments, landowners will reinvest in establishing quality, well-stocked stands for future timber resources. New markets created through industrial and export development improve financial returns to landowners, retain working forests, enhance forest health, better protect water quality, and increase wood supply to retain and grow the forest industry and its job numbers. The goal of the SCFC’s marketing program is to develop current and new markets for the state’s forest resources and to increase export volume. We do this by offering research of marketing intelligence, targeted advertisement and promotion, market entry and expansion assistance, and education.

Objectives
• Assess market needs/barriers
• Develop marketing information and trade contacts to improve demand for SC forest products
• Provide company-specific assistance for locating sources of raw materials or manufactured products from SC producers
• Disseminate database on primary and secondary processors market and promote South Carolina forest product commodities for international trade

Elements of our marketing program
• Background research: state’s forest products industry status
• Marketing research: marketing intelligence on current and new markets
• Promotion and sales assistance:

Other services and resources
Assistance is provided for forest/wood products and related business development. In addition, trade development activities are carried out to increase markets for South Carolina wood products.
• Forest products mill directory and maps
• Wood product business location or expansion assistance
• International trade information and assistance
• Forest Inventory & Analysis (FIA) reports, statewide and customized
• Timber Products Output (TPO) reports
• Sources of supply