Montana’s Forest Products Industry and Timber Harvest, 2009

The University of Montana’s Bureau of Business and Economic Research (BBER), in conjunction with the Interior West Forest Inventory and Analysis (IW-FIA) Program of the US Forest Service, conducted a census of Montana’s timber processors that operated during calendar year 2009. Through a written questionnaire or phone interview, timber-processing and residue-utilizing facilities provided information about their 2009 operations, including:

- Plant location, production, capacity, and employment
- Log lengths, small- and large-end diameters
- Volume of raw material received, by county and ownership
- Species of timber received and live/dead proportions
- Finished product volumes, types, sales value, and market locations
- Volume, utilization, and marketing of manufacturing residue

The facility-level information was then compiled and summarized. Because this study is based on a census, rather than statistical sample of firms, there is no statistical error associated with the estimates presented. Possibilities of reporting and measurement error exist, but are minimized by cross checking data against other public and private information sources and through data checking for internal consistency. Summary data tables and figures are reviewed by wood products researchers, state and federal agency personnel, and members of the state’s forest products industry.

A report is currently being prepared that will include these tables along with historical information and current industry trends. This and past reports can be found at: www.bber.umt.edu/forest/regionalreports.asp.

In the meantime, we would like to provide this “core” information to our data users and other interested individuals. We encourage you to contact us if you have any additional questions about the data. However, firm-level data are confidential and will not be released.

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A total of 127 facilities were identified as operating in Montana during 2009:
- 41 lumber facilities
- 2 plywood and veneer plants
- 33 house log manufactures
- 3 pulp and board facilities
- 14 post and pole plants
- 14 log furniture manufacturers
- 20 bark product, fuel pellet, cedar product, pulp-chip conversion, and energy plants

With the drop in U.S. housing beginning in 2006, the global financial crisis in 2008, and record low housing starts in 2009, the value of wood and paper products from Montana producers fell from over $1.2 billion in 2004 to $592 million in 2009, about $325 million in 2010, with 2011 estimated at $313 million.

Montana’s 2009 timber harvest was 374 million board feet (MMBF) Scribner, down from 785 MMBF in 2004. Private lands supplied 57 percent of the harvest. Lodgepole pine became the leading species harvested, accounting for 35 percent of the harvest, likely as a result of the Mountain Pine Beetle epidemic. Sawlogs and veneer logs were the main products harvested, accounting for 73 percent of the harvest volume.

Between 2004 and 2009 six large mills and numerous small mills in Montana closed permanently. Operations at most other facilities were curtailed in 2009 and 2010. Timber processing capacity dropped from 934 MMBF in 2004 to 606 MMBF in 2009. Capacity utilization which normally exceeds 70 percent dropped to 50 percent in 2009.

Montana lumber production dropped from 1,040 MMBF in 2004 to 449 MMBF in 2009. Plywood production in Montana in 2009 hit an all-time low of 155 MMSF (million square feet), down from 444 MMSF in 2004.

Ninety-three percent of Montana’s timber harvest was processed in-state during 2009. Almost 25 MMBF Scribner of timber was shipped out of the state, while 17 MMBF of timber was brought into Montana from other states and Canada.

Forest industry employment was 7,051 during 2009, with earnings of $274 million.

Sales from Montana’s forest products industry were $592 million in 2009. Residue related products accounted for 63 percent, followed by lumber and plywood with 29 percent. Sales from log home manufacturers were $2 million, accounting for 4 percent of total sales. The North Central states region, with 27 percent of total sales, was the largest market area for Montana’s forest products.
Figure 1 (above) demonstrates the utilization of Montana’s timber harvest in cubic feet. By converting all mill inputs from board feet Scribner to cubic feet, inputs are measured in the same units as outputs, thus accounting for both mill residues and timber products. This allows the flows of wood fiber from different components of the industry, which usually express output capacity in different units, to be analyzed collectively. The following conversion factors, converting Scribner board foot volume to cubic feet, were developed from log size specifications, as well as product and residue recovery information, provided by processors of Montana’s 2009 timber harvest:

- 5.55 board feet per cubic foot for veneer logs
- 4.75 board feet per cubic foot for house logs
- 4.04 board feet per cubic foot for sawlogs
- 2.69 board feet per cubic foot for all other timber products

<table>
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<th>Ownership class</th>
<th>Thousand acres</th>
<th>Percentage of nonreserved timberland</th>
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<td>All owners*</td>
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*aPercentage detail may not sum to 100% due to rounding.
### Table 2--Proportion of Montana timber harvest by ownership class, selected years (sources: Keegan 1980; Keegan and others 1983, 1990, 1995, 2001; Spoelma and others 2008).

<table>
<thead>
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<td>Non-industrial private</td>
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<td>36,214</td>
<td>23,713</td>
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<td>14,641</td>
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<tr>
<td>Tribal</td>
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<td>36,214</td>
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- Private includes industrial and non-industrial private.
- Public includes national forest and other public.

**Percentage detail may not sum to 100% due to rounding.**

### Table 3--Proportion of Montana timber harvest by species, selected years (sources: Keegan 1980; Keegan and others 1983, 1990, 1995, 2001; Spoelma)

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<tr>
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<td>Percentage of harvest (MBF, Scribner)</td>
<td>Percentage of harvest (MBF, Scribner)</td>
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<td>Ponderosa pine</td>
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<td>Spruces</td>
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<td>Western larch</td>
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- Other species include: true firs, western white pine, western redcedar, western hemlock, rocky mountain juniper, aspen and cottonwood, and other softwood.
- Percentage detail may not sum to 100% due to rounding.
Table 4—Proportion of Montana timber harvest by product, selected years

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<td>17</td>
<td>18</td>
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<td>Other timber products</td>
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<td>All products</td>
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a Other timber products include logs used for pulpwood, posts and poles, house logs, cedar products, log furniture, and industrial fuelwood.
b Percentage detail may not sum to 100% due to rounding.
c Harvest of veneer logs included in sawlog category for 2009 due to disclosure considerations.


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<td>MMFB, Scribner</td>
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<td>Percent of Total</td>
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a Percentage detail may not sum to 100% due to rounding.
Table 6–Montana timber harvest by ownership class and species, 2009.

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<tr>
<th>Ownership class</th>
<th>Lodgepole pine</th>
<th>Douglas-fir</th>
<th>Ponderosa pine</th>
<th>Spruces</th>
<th>Western larch</th>
<th>Other species</th>
<th>All species</th>
</tr>
</thead>
<tbody>
<tr>
<td>Private</td>
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<td>34,392</td>
<td>15,798</td>
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<td>11,985</td>
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<td>Non-industrial private</td>
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<td>Tribal</td>
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<td>3,626</td>
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<td>1,009</td>
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<td>116</td>
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<td>3,491</td>
<td>4,532</td>
<td>2,045</td>
<td>68,749</td>
</tr>
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</table>

All owners          | 129,887        | 117,446     | 56,574         | 29,168  | 23,158        | 14,604        | 373,538     |

<table>
<thead>
<tr>
<th>Ownership class</th>
<th>All species</th>
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<tr>
<td>Other public</td>
<td>7.3 5.8 2.5</td>
</tr>
</tbody>
</table>

All owners          | 34.8 31.4 15.1 |

Table 7–Montana timber harvest by ownership class and product, 2009.

<table>
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<tr>
<th>Ownership class</th>
<th>Saw and veneer logs</th>
<th>House logs</th>
<th>Other products</th>
<th>All products</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Thousand board feet, Scribner</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Private</td>
<td>159,669</td>
<td>1,165</td>
<td>50,376</td>
<td>211,210</td>
</tr>
<tr>
<td>Industrial</td>
<td>68,992</td>
<td>405</td>
<td>31,553</td>
<td>100,950</td>
</tr>
<tr>
<td>Non-industrial private</td>
<td>81,126</td>
<td>735</td>
<td>13,759</td>
<td>95,619</td>
</tr>
<tr>
<td>Tribal</td>
<td>9,551</td>
<td>25</td>
<td>5,065</td>
<td>14,641</td>
</tr>
<tr>
<td>Public</td>
<td>112,283</td>
<td>1,012</td>
<td>49,034</td>
<td>162,329</td>
</tr>
<tr>
<td>National Forest</td>
<td>65,646</td>
<td>876</td>
<td>27,057</td>
<td>93,580</td>
</tr>
<tr>
<td>Other publicc</td>
<td>46,637</td>
<td>135</td>
<td>21,977</td>
<td>68,749</td>
</tr>
</tbody>
</table>

All owners          | 271,952 | 2,177 | 99,410 | 373,538 |

<table>
<thead>
<tr>
<th>Ownership class</th>
<th>Private</th>
<th>Industrial</th>
<th>Non-industrial private</th>
<th>Tribal</th>
<th>Public</th>
<th>National Forest</th>
<th>Other public</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saw and veneer logs</td>
<td>42.7</td>
<td>0.3</td>
<td>13.5</td>
<td>56.5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>House logs</td>
<td>18.5</td>
<td>0.1</td>
<td>3.7</td>
<td>25.6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other productsa</td>
<td>2.6</td>
<td>0.0</td>
<td>1.4</td>
<td>3.9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All productsb</td>
<td>30.1</td>
<td>0.3</td>
<td>13.1</td>
<td>43.5</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

All ownersb          | 72.8    | 0.6        | 26.6                   | 100.0  |

aOther products include logs used for pulpwood, posts and poles, cedar products, log furniture, and industrial fuelwood.

bPercentage detail may not sum to 100% due to rounding.

cOther public includes state, BLM and other public ownerships.
### Table 8—Montana timber harvest by species and product, 2009.

<table>
<thead>
<tr>
<th>Species</th>
<th>Saw and veneer logs</th>
<th>House logs</th>
<th>Other products&lt;sup&gt;a&lt;/sup&gt;</th>
<th>All products&lt;sup&gt;b&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Thousand board feet</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lodgepole pine</td>
<td>90,847</td>
<td>1,185</td>
<td>37,855</td>
<td>129,887</td>
</tr>
<tr>
<td>Douglas-fir</td>
<td>86,674</td>
<td>157</td>
<td>30,615</td>
<td>117,446</td>
</tr>
<tr>
<td>Ponderosa pine</td>
<td>39,091</td>
<td>120</td>
<td>17,363</td>
<td>56,574</td>
</tr>
<tr>
<td>Spruces</td>
<td>22,164</td>
<td>615</td>
<td>6,389</td>
<td>29,168</td>
</tr>
<tr>
<td>Western larch</td>
<td>19,866</td>
<td>100</td>
<td>5,893</td>
<td>25,858</td>
</tr>
<tr>
<td>Other species&lt;sup&gt;c&lt;/sup&gt;</td>
<td>13,309</td>
<td></td>
<td>1,295</td>
<td>14,604</td>
</tr>
<tr>
<td>All species</td>
<td>271,952</td>
<td>2,177</td>
<td>99,410</td>
<td>373,538</td>
</tr>
</tbody>
</table>

<sup>a</sup> Other products include logs used for pulpwood, posts and poles, cedar products, log furniture, and industrial fuelwood.

<sup>b</sup> Percentage detail may not sum to 100% due to rounding.

<sup>c</sup> Other species include: true firs, western white pine, western redcedar, western hemlock, Rocky Mountain juniper, cottonwood and aspen, and other softwood species.

### Table 9—Timber flow into (imports) and out of (exports) Montana, 2009.

<table>
<thead>
<tr>
<th>Timber products</th>
<th>Imports</th>
<th>Exports</th>
<th>Net imports (net exports)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Thousand board feet, Scribner</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saw and veneer logs</td>
<td>14,577</td>
<td>25,071</td>
<td>(10,493)</td>
</tr>
<tr>
<td>House logs</td>
<td>749</td>
<td>2</td>
<td>747</td>
</tr>
<tr>
<td>Other products&lt;sup&gt;a&lt;/sup&gt;</td>
<td>647</td>
<td>-</td>
<td>1,447</td>
</tr>
<tr>
<td>All products</td>
<td>15,973</td>
<td>25,072</td>
<td>(9,099)</td>
</tr>
</tbody>
</table>

<sup>a</sup> Other products include logs for pulpwood and posts and poles.

<table>
<thead>
<tr>
<th>County</th>
<th>Lumber</th>
<th>Plywood</th>
<th>Pulp and board</th>
<th>Post and poles</th>
<th>Log homes</th>
<th>Log furniture</th>
<th>Other products</th>
<th>All products</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Northwest Montana</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flathead</td>
<td>17</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>6</td>
<td>6</td>
<td>8</td>
<td>41</td>
</tr>
<tr>
<td>Lake</td>
<td>8</td>
<td>2</td>
<td>1</td>
<td>-</td>
<td>3</td>
<td>2</td>
<td>3</td>
<td>19</td>
</tr>
<tr>
<td>Lincoln</td>
<td>6</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>9</td>
</tr>
<tr>
<td>Sanders</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>2</td>
<td>4</td>
<td>4</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td><strong>Western Montana</strong></td>
<td>8</td>
<td></td>
<td>2</td>
<td>7</td>
<td>14</td>
<td>5</td>
<td>6</td>
<td>42</td>
</tr>
<tr>
<td>Granite</td>
<td>-</td>
<td>-</td>
<td>3</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Mineral</td>
<td>1</td>
<td>-</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Missoula</td>
<td>5</td>
<td>-</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>2</td>
<td>1</td>
<td>16</td>
</tr>
<tr>
<td>Ravalli</td>
<td>2</td>
<td>-</td>
<td>1</td>
<td>9</td>
<td>3</td>
<td>2</td>
<td>17</td>
<td></td>
</tr>
<tr>
<td><strong>Southwest Montana</strong></td>
<td>4</td>
<td></td>
<td>2</td>
<td>8</td>
<td>1</td>
<td>2</td>
<td>17</td>
<td></td>
</tr>
<tr>
<td>Beaverhead</td>
<td>1</td>
<td>-</td>
<td>1</td>
<td>-</td>
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<td>3</td>
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</tr>
<tr>
<td>Gallatin</td>
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<td>5</td>
<td>-</td>
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<td>7</td>
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<tr>
<td>Madison</td>
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<td>-</td>
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<td>-</td>
<td>-</td>
<td>3</td>
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</tr>
<tr>
<td>Park</td>
<td>1</td>
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<td>1</td>
<td>1</td>
<td>-</td>
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<td></td>
</tr>
<tr>
<td>Silver Bow</td>
<td>1</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>West-Central Montana</strong></td>
<td>6</td>
<td></td>
<td>3</td>
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<td>3</td>
<td>14</td>
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<tr>
<td>Broadwater</td>
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<td>1</td>
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</tr>
<tr>
<td>Cascade</td>
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</tr>
<tr>
<td>Jefferson</td>
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<td>-</td>
<td>1</td>
<td>1</td>
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</tr>
<tr>
<td>Lewis &amp; Clark</td>
<td>2</td>
<td>-</td>
<td>1</td>
<td>-</td>
<td>1</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Powell</td>
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<td>-</td>
<td>-</td>
<td>1</td>
<td>-</td>
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<td></td>
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</tr>
<tr>
<td><strong>Eastern Montana</strong></td>
<td>6</td>
<td></td>
<td>1</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>13</td>
<td></td>
</tr>
<tr>
<td>Carbon</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>2</td>
<td>-</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Chouteau</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Fergus</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Musselshell</td>
<td>2</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Stillwater</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Sweetgrass</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Yellowstone</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>-</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td><strong>2009 Total</strong></td>
<td>41</td>
<td>2</td>
<td>3</td>
<td>14</td>
<td>33</td>
<td>14</td>
<td>20</td>
<td>127</td>
</tr>
<tr>
<td><strong>2004 Total</strong></td>
<td>57</td>
<td>3</td>
<td>3</td>
<td>22</td>
<td>88</td>
<td>29</td>
<td>13</td>
<td>215</td>
</tr>
<tr>
<td><strong>1998 Total</strong></td>
<td>73</td>
<td>4</td>
<td>3</td>
<td>29</td>
<td>75</td>
<td>25</td>
<td>11</td>
<td>220</td>
</tr>
<tr>
<td><strong>1993 Total</strong></td>
<td>86</td>
<td>4</td>
<td>3</td>
<td>31</td>
<td>59</td>
<td>4</td>
<td>10</td>
<td>197</td>
</tr>
<tr>
<td><strong>1988 Total</strong></td>
<td>87</td>
<td>4</td>
<td>3</td>
<td>37</td>
<td>35</td>
<td>2</td>
<td>15</td>
<td>183</td>
</tr>
<tr>
<td><strong>1981 Total</strong></td>
<td>142</td>
<td>4</td>
<td>3</td>
<td>35</td>
<td>27</td>
<td>0</td>
<td>17</td>
<td>228</td>
</tr>
</tbody>
</table>

*Other products include biomass energy, cedar shakes and shingles, decorative bark and mulch, roundwood pulp-chip conversion, and fuel pellets.*
Table 11—Proportion of Montana timber receipts (MBF, Scribner) by ownership class, selected years (sources: Keegan 1980; Keegan and others 1983, 1990, 1995, 2001; Spoelma and others 2008).

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Private</td>
<td>56</td>
<td>55</td>
<td>67</td>
<td>73</td>
<td>74</td>
<td>55</td>
</tr>
<tr>
<td>Industrial</td>
<td>34</td>
<td>34</td>
<td>31</td>
<td>43</td>
<td>39</td>
<td>28</td>
</tr>
<tr>
<td>Non-industrial private</td>
<td>20</td>
<td>18</td>
<td>33</td>
<td>27</td>
<td>31</td>
<td>24</td>
</tr>
<tr>
<td>Tribal</td>
<td>2</td>
<td>4</td>
<td>3</td>
<td>3</td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td>Public</td>
<td>44</td>
<td>45</td>
<td>33</td>
<td>27</td>
<td>26</td>
<td>45</td>
</tr>
<tr>
<td>National Forest</td>
<td>41</td>
<td>40</td>
<td>30</td>
<td>22</td>
<td>15</td>
<td>24</td>
</tr>
<tr>
<td>Other public(^a)</td>
<td>4</td>
<td>5</td>
<td>5</td>
<td>11</td>
<td>21</td>
<td></td>
</tr>
<tr>
<td>All owners(^b)</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
</tbody>
</table>

\(^a\)Includes timber receipts from Canada and unspecified out-of-state sources.

\(^b\)Percentage detail may not sum to 100% due to rounding.

Table 12—Montana timber receipts by ownership class and product, 2009.

<table>
<thead>
<tr>
<th>Ownership class</th>
<th>Saw and veneer logs</th>
<th>House logs</th>
<th>Other products(^a)</th>
<th>All products(^b)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Private</td>
<td>148,904</td>
<td>1,323</td>
<td>50,376</td>
<td>200,604</td>
</tr>
<tr>
<td>Industrial</td>
<td>68,780</td>
<td>445</td>
<td>31,553</td>
<td>100,778</td>
</tr>
<tr>
<td>Non-industrial private</td>
<td>73,073</td>
<td>853</td>
<td>13,759</td>
<td>87,685</td>
</tr>
<tr>
<td>Tribal</td>
<td>7,051</td>
<td>25</td>
<td>5,065</td>
<td>12,141</td>
</tr>
<tr>
<td>Public</td>
<td>110,881</td>
<td>1,019</td>
<td>49,108</td>
<td>161,008</td>
</tr>
<tr>
<td>National Forest</td>
<td>57,939</td>
<td>884</td>
<td>27,057</td>
<td>85,880</td>
</tr>
<tr>
<td>Other public</td>
<td>52,942</td>
<td>135</td>
<td>22,051</td>
<td>75,128</td>
</tr>
<tr>
<td>Canadian and unspecified(^c)</td>
<td>1,673</td>
<td>511</td>
<td>573</td>
<td>2,758</td>
</tr>
<tr>
<td>All owners</td>
<td>261,458</td>
<td>2,854</td>
<td>100,057</td>
<td>364,370</td>
</tr>
</tbody>
</table>

\(^a\)Other products include logs used for pulpwood, posts and poles, log furniture, and industrial fuelwood.

\(^b\)Percentage detail may not sum to 100% due to rounding.

\(^c\)Includes timber receipts from Canada and unspecified out-of-state sources.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Saw and veneer logs</td>
<td>92</td>
<td>97</td>
<td>95</td>
<td>94</td>
<td>89</td>
<td>72</td>
</tr>
<tr>
<td>Other timber products&lt;sup&gt;a&lt;/sup&gt;</td>
<td>8</td>
<td>3</td>
<td>5</td>
<td>6</td>
<td>11</td>
<td>28</td>
</tr>
<tr>
<td>All products&lt;sup&gt;b&lt;/sup&gt;</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
</tbody>
</table>

<sup>a</sup> Other timber products include logs used for posts and poles, house logs, pulpwood, log furniture, and industrial fuelwood.

<sup>b</sup> Percentage detail may not sum to 100% due to rounding.

Table 14--Montana timber receipts by species and product, 2009.

<table>
<thead>
<tr>
<th>Species</th>
<th>Saw and veneer logs</th>
<th>House logs</th>
<th>Other products&lt;sup&gt;a&lt;/sup&gt;</th>
<th>All products&lt;sup&gt;b&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Thousand board feet, Scribner</td>
<td>Percentage of receipts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lodgepole pine</td>
<td>89,943</td>
<td>1,590</td>
<td>38,132</td>
<td>129,665</td>
</tr>
<tr>
<td>Douglas-fir</td>
<td>82,018</td>
<td>306</td>
<td>30,798</td>
<td>113,123</td>
</tr>
<tr>
<td>Ponderosa pine</td>
<td>31,151</td>
<td>160</td>
<td>17,451</td>
<td>48,762</td>
</tr>
<tr>
<td>Spruces</td>
<td>24,892</td>
<td>686</td>
<td>6,440</td>
<td>32,019</td>
</tr>
<tr>
<td>Western larch</td>
<td>19,905</td>
<td>112</td>
<td>5,940</td>
<td>25,957</td>
</tr>
<tr>
<td>Other species&lt;sup&gt;c&lt;/sup&gt;</td>
<td>13,548</td>
<td>1,295</td>
<td>1,295</td>
<td>14,844</td>
</tr>
<tr>
<td>All species</td>
<td>261,458</td>
<td>2,854</td>
<td>100,057</td>
<td>364,370</td>
</tr>
</tbody>
</table>

<sup>a</sup> Other products include logs used for pulpwood, posts and poles, log furniture, and industrial fuelwood.

<sup>b</sup> Percentage detail may not sum to 100% due to rounding.

<sup>c</sup> Other species include: true firs, western white pine, western redcedar, western hemlock, Rocky Mountain juniper, cottonwood and poplar, and other softwood species.
Table 15—Montana timber receipts by ownership class and species, 2009.

<table>
<thead>
<tr>
<th>Ownership class</th>
<th>Lodgepole pine</th>
<th>Douglas-fir</th>
<th>Ponderosa pine</th>
<th>Spruces</th>
<th>Western larch</th>
<th>Other species</th>
<th>All species</th>
</tr>
</thead>
<tbody>
<tr>
<td>Private</td>
<td>70,869</td>
<td>59,296</td>
<td>30,225</td>
<td>18,955</td>
<td>15,058</td>
<td>6,201</td>
<td>200,604</td>
</tr>
<tr>
<td>Industrial</td>
<td>25,138</td>
<td>34,345</td>
<td>15,690</td>
<td>11,045</td>
<td>11,867</td>
<td>2,693</td>
<td>100,778</td>
</tr>
<tr>
<td>Non-industrial private</td>
<td>41,369</td>
<td>21,325</td>
<td>12,445</td>
<td>6,901</td>
<td>2,254</td>
<td>3,392</td>
<td>87,685</td>
</tr>
<tr>
<td>Tribal</td>
<td>4,363</td>
<td>3,026</td>
<td>2,090</td>
<td>1,099</td>
<td>938</td>
<td>116</td>
<td>12,141</td>
</tr>
<tr>
<td>Public</td>
<td>57,954</td>
<td>52,746</td>
<td>18,121</td>
<td>12,944</td>
<td>10,722</td>
<td>8,522</td>
<td>161,008</td>
</tr>
<tr>
<td>National Forest</td>
<td>27,976</td>
<td>28,730</td>
<td>9,993</td>
<td>6,752</td>
<td>6,119</td>
<td>6,320</td>
<td>85,880</td>
</tr>
<tr>
<td>Other public</td>
<td>29,977</td>
<td>24,016</td>
<td>8,138</td>
<td>6,192</td>
<td>4,603</td>
<td>2,202</td>
<td>75,128</td>
</tr>
<tr>
<td>Canadian and unspecified</td>
<td>841</td>
<td>1,081</td>
<td>416</td>
<td>120</td>
<td>178</td>
<td>121</td>
<td>2,758</td>
</tr>
<tr>
<td>All owners</td>
<td>129,665</td>
<td>113,123</td>
<td>48,762</td>
<td>32,019</td>
<td>25,957</td>
<td>14,844</td>
<td>364,370</td>
</tr>
</tbody>
</table>

| Ownership class         | Percentage of receipts | | | | | | |
|-------------------------|------------------------| | | | | | |
| Private                 | 19.4                   | 16.3 | 8.3 | 5.2 | 4.1 | 1.7 | 55.1 |
| Industrial              | 6.9                    | 9.4  | 4.3 | 3.0 | 3.3 | 0.7 | 27.7 |
| Non-industrial private  | 11.4                   | 5.9  | 3.4 | 1.9 | 0.6 | 0.9 | 24.1 |
| Tribal                  | 1.2                    | 1.0  | 0.6 | 0.3 | 0.3 | 0.0 | 3.3  |
| Public                  | 15.9                   | 14.5 | 5.0 | 3.6 | 2.9 | 2.3 | 44.2 |
| National Forest         | 7.7                    | 7.9  | 2.7 | 1.9 | 1.7 | 1.7 | 23.6 |
| Other public            | 8.2                    | 6.6  | 2.2 | 1.7 | 1.3 | 0.6 | 20.6 |
| Canadian and unspecified| 0.2                    | 0.3  | 0.1 | 0.0 | 0.0 | 0.0 | 0.8  |
| All owners              | 35.6                   | 31.0 | 13.4| 8.8 | 7.1 | 4.1 | 100.0|


<table>
<thead>
<tr>
<th>Year</th>
<th>Timber processed MMBF&lt;sup&gt;a&lt;/sup&gt;</th>
<th>Lumber produced MMBF&lt;sup&gt;a&lt;/sup&gt;</th>
<th>Overrun</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Scribner</td>
<td>Lumber tally</td>
<td></td>
</tr>
<tr>
<td>2009</td>
<td>237</td>
<td>449</td>
<td>1.89</td>
</tr>
<tr>
<td>2004</td>
<td>521</td>
<td>1,040</td>
<td>2.00</td>
</tr>
<tr>
<td>1998</td>
<td>725</td>
<td>1,287</td>
<td>1.78</td>
</tr>
<tr>
<td>1993</td>
<td>782</td>
<td>1,367</td>
<td>1.75</td>
</tr>
<tr>
<td>1988</td>
<td>985</td>
<td>1,558</td>
<td>1.58</td>
</tr>
<tr>
<td>1981</td>
<td>739</td>
<td>1,071</td>
<td>1.45</td>
</tr>
</tbody>
</table>

<sup>a</sup>MMBF = million board feet.
### Table 17--Number of Montana sawmills by annual lumber production, selected years (sources: Schweitzer and others 1975; Setzer and Wilson 1970; Keegan 1980; Keegan and others 1983, 1990, 1995, 2001; Spoelma and others 2008).

<table>
<thead>
<tr>
<th>Year</th>
<th>Less than 10 MMBF&lt;sup&gt;a&lt;/sup&gt;</th>
<th>10 MMBF&lt;sup&gt;a&lt;/sup&gt; to 50 MMBF</th>
<th>More than 50 MMBF&lt;sup&gt;a&lt;/sup&gt;</th>
<th>Total mills</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>30</td>
<td>6</td>
<td>5</td>
<td>41</td>
</tr>
<tr>
<td>2004</td>
<td>43</td>
<td>3</td>
<td>11</td>
<td>57</td>
</tr>
<tr>
<td>1998</td>
<td>54</td>
<td>8</td>
<td>11</td>
<td>73</td>
</tr>
<tr>
<td>1993</td>
<td>60</td>
<td>14</td>
<td>12</td>
<td>86</td>
</tr>
<tr>
<td>1988</td>
<td>58</td>
<td>16</td>
<td>13</td>
<td>87</td>
</tr>
<tr>
<td>1981</td>
<td>114</td>
<td>23</td>
<td>5</td>
<td>142</td>
</tr>
<tr>
<td>1976</td>
<td>68</td>
<td>24</td>
<td>6</td>
<td>98</td>
</tr>
<tr>
<td>1973</td>
<td>86</td>
<td>22</td>
<td>7</td>
<td>115</td>
</tr>
<tr>
<td>1966</td>
<td>111</td>
<td>37</td>
<td>b</td>
<td>148</td>
</tr>
<tr>
<td>1956</td>
<td>307</td>
<td>26</td>
<td>b</td>
<td>333</td>
</tr>
</tbody>
</table>

<sup>a</sup>MMBF = million board feet, lumber tally.

### Table 18--Proportion of Montana lumber production by sawmill size class, selected years (sources: Schweitzer and others 1975; Setzer and Wilson 1970; Keegan 1980; Keegan and others 1983, 1990, 1995, 2001; Spoelma and others 2008).

<table>
<thead>
<tr>
<th>Year</th>
<th>Less than 10 MMBF&lt;sup&gt;a&lt;/sup&gt;</th>
<th>More than 10 MMBF&lt;sup&gt;a&lt;/sup&gt;</th>
<th>Total lumber production</th>
<th>Average production per mill</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Percentage of production</td>
<td>Million board feet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2009</td>
<td>2</td>
<td>98</td>
<td>449</td>
<td>10.96</td>
</tr>
<tr>
<td>2004</td>
<td>3</td>
<td>97</td>
<td>1,040</td>
<td>18.24</td>
</tr>
<tr>
<td>1998</td>
<td>2</td>
<td>98</td>
<td>1,287</td>
<td>17.63</td>
</tr>
<tr>
<td>1993</td>
<td>4</td>
<td>96</td>
<td>1,367</td>
<td>15.90</td>
</tr>
<tr>
<td>1988</td>
<td>4</td>
<td>96</td>
<td>1,558</td>
<td>17.91</td>
</tr>
<tr>
<td>1981</td>
<td>8</td>
<td>92</td>
<td>1,071</td>
<td>7.54</td>
</tr>
<tr>
<td>1976</td>
<td>4</td>
<td>96</td>
<td>1,176</td>
<td>12.00</td>
</tr>
<tr>
<td>1966</td>
<td>10</td>
<td>90</td>
<td>1,375</td>
<td>11.96</td>
</tr>
<tr>
<td>1962</td>
<td>13</td>
<td>87</td>
<td>1,259</td>
<td>8.51</td>
</tr>
<tr>
<td>1956</td>
<td>33</td>
<td>67</td>
<td>979</td>
<td>2.97</td>
</tr>
</tbody>
</table>

<sup>a</sup>MMBF = million board feet, lumber tally.
Table 19--Lumber production by Montana sawmills, 2009.

<table>
<thead>
<tr>
<th>Lumber production size class</th>
<th>Number of mills</th>
<th>Percentage of production</th>
<th>Lumber production</th>
<th>Average production per mill</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Million board feet</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>More than 50 MMBF&lt;sup&gt;a&lt;/sup&gt;</td>
<td>5</td>
<td>62.9</td>
<td>283</td>
<td>56.52</td>
</tr>
<tr>
<td>10 to 50 MMBF</td>
<td>6</td>
<td>34.6</td>
<td>155</td>
<td>25.90</td>
</tr>
<tr>
<td>1 to 10 MMBF</td>
<td>3</td>
<td>0.9</td>
<td>4</td>
<td>1.40</td>
</tr>
<tr>
<td>Less than 1 MMBF</td>
<td>27</td>
<td>1.6</td>
<td>7</td>
<td>0.26</td>
</tr>
<tr>
<td>Total</td>
<td>41</td>
<td>100</td>
<td>449</td>
<td>10.96</td>
</tr>
</tbody>
</table>

<sup>a</sup>MMBF = million board feet, lumber tally.

<table>
<thead>
<tr>
<th>Plant Type</th>
<th>Processing capacity</th>
<th>Volume processed</th>
<th>Percentage of capacity utilized</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Million Board Feet</td>
<td>Scribner</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2009</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sawmills</td>
<td>505</td>
<td>237</td>
<td>47%</td>
</tr>
<tr>
<td>Other sawtimber users*a</td>
<td>106</td>
<td>66</td>
<td>62%</td>
</tr>
<tr>
<td>Total</td>
<td>611</td>
<td>303</td>
<td>50%</td>
</tr>
<tr>
<td></td>
<td>2004</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sawmills</td>
<td>743</td>
<td>521</td>
<td>70%</td>
</tr>
<tr>
<td>Other sawtimber users*a</td>
<td>191</td>
<td>135</td>
<td>71%</td>
</tr>
<tr>
<td>Total</td>
<td>934</td>
<td>656</td>
<td>70%</td>
</tr>
<tr>
<td></td>
<td>1998</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sawmills</td>
<td>844</td>
<td>725</td>
<td>86%</td>
</tr>
<tr>
<td>Other sawtimber users*a</td>
<td>247</td>
<td>221</td>
<td>89%</td>
</tr>
<tr>
<td>Total</td>
<td>1,091</td>
<td>946</td>
<td>87%</td>
</tr>
<tr>
<td></td>
<td>1993</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sawmills</td>
<td>964</td>
<td>783</td>
<td>81%</td>
</tr>
<tr>
<td>Other sawtimber users*a</td>
<td>287</td>
<td>234</td>
<td>82%</td>
</tr>
<tr>
<td>Total</td>
<td>1,251</td>
<td>1,017</td>
<td>81%</td>
</tr>
<tr>
<td></td>
<td>1988</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sawmills</td>
<td>1,237</td>
<td>985</td>
<td>80%</td>
</tr>
<tr>
<td>Other sawtimber users*a</td>
<td>324</td>
<td>241</td>
<td>74%</td>
</tr>
<tr>
<td>Total</td>
<td>1,561</td>
<td>1,226</td>
<td>79%</td>
</tr>
<tr>
<td></td>
<td>1981</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sawmills</td>
<td>1,207</td>
<td>739</td>
<td>61%</td>
</tr>
<tr>
<td>Other sawtimber users*a</td>
<td>276</td>
<td>241</td>
<td>87%</td>
</tr>
<tr>
<td>Total</td>
<td>1,483</td>
<td>980</td>
<td>66%</td>
</tr>
</tbody>
</table>

*aOther sawtimber users include plywood and veneer plants, house log manufacturers, and utility pole plants.
**Table 21**—Montana sawmill residue factors, selected years (sources: Keegan 1980; Keegan and others 1983, 1990, 1995, 2001; Spoelma and others 2008).

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Coarse</td>
<td>0.47</td>
<td>0.51</td>
<td>0.48</td>
<td>0.49</td>
<td>0.47</td>
<td>0.44</td>
</tr>
<tr>
<td>Sawdust</td>
<td>0.25</td>
<td>0.22</td>
<td>0.23</td>
<td>0.22</td>
<td>0.19</td>
<td>0.21</td>
</tr>
<tr>
<td>Bark</td>
<td>0.23</td>
<td>0.21</td>
<td>0.21</td>
<td>0.19</td>
<td>0.20</td>
<td>0.19</td>
</tr>
<tr>
<td>Planer Shavings</td>
<td>0.22</td>
<td>0.18</td>
<td>0.16</td>
<td>0.17</td>
<td>0.15</td>
<td>0.14</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>1.17</td>
<td>1.12</td>
<td>1.08</td>
<td>1.07</td>
<td>1.01</td>
<td>0.98</td>
</tr>
</tbody>
</table>

*a* Bone-dry unit (BDU = 2,400 lb of oven-dry wood) of residue generated for every 1,000 board feet of lumber manufactured.

**Table 22**—Production and disposition of residues from Montana sawmills and plywood plants, 2009.

<table>
<thead>
<tr>
<th>Residue type</th>
<th>Total utilized</th>
<th>Pulp and board</th>
<th>Energy</th>
<th>Mulch or animal bedding</th>
<th>Unspecified use</th>
<th>Unutilized</th>
<th>Total produced</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1,144</td>
<td>210</td>
</tr>
<tr>
<td>Coarse</td>
<td>236,551</td>
<td>229,695</td>
<td>5,711</td>
<td></td>
<td>1,144</td>
<td>210</td>
<td>236,761</td>
</tr>
<tr>
<td>Fine</td>
<td>155,872</td>
<td>145,986</td>
<td>4,288</td>
<td></td>
<td>2,609</td>
<td>137</td>
<td>156,009</td>
</tr>
<tr>
<td>Sawdust</td>
<td>93,229</td>
<td>84,357</td>
<td>3,743</td>
<td></td>
<td>118</td>
<td>118</td>
<td>93,347</td>
</tr>
<tr>
<td>Planer shavings</td>
<td>62,644</td>
<td>61,539</td>
<td>546</td>
<td></td>
<td>19</td>
<td>19</td>
<td>62,663</td>
</tr>
<tr>
<td>Bark</td>
<td>120,003</td>
<td>1,374</td>
<td>97,887</td>
<td></td>
<td>10,130</td>
<td>52</td>
<td>120,055</td>
</tr>
<tr>
<td><strong>All residues</strong></td>
<td>512,425</td>
<td>376,965</td>
<td>107,886</td>
<td>13,191</td>
<td>14,383</td>
<td>399</td>
<td>512,824</td>
</tr>
</tbody>
</table>

**Percentage of residue use by type**

<table>
<thead>
<tr>
<th></th>
<th>Coarse</th>
<th>Fine</th>
<th>Sawdust</th>
<th>Planer shavings</th>
<th>Bark</th>
<th>All residues</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bone dry units</td>
<td>99.9%</td>
<td>99.9%</td>
<td>99.9%</td>
<td>100.0%</td>
<td>100.0%</td>
<td>99.9%</td>
</tr>
<tr>
<td></td>
<td>97.0%</td>
<td>93.5%</td>
<td>90.4%</td>
<td>98.2%</td>
<td>100.0%</td>
<td>73.5%</td>
</tr>
<tr>
<td></td>
<td>2.4%</td>
<td>2.7%</td>
<td>4.0%</td>
<td>4.0%</td>
<td>0.9%</td>
<td>21.0%</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>2.0%</td>
<td>2.7%</td>
<td>2.8%</td>
<td>0.9%</td>
<td>2.6%</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>0.1%</td>
<td>0.9%</td>
<td>0.9%</td>
<td>-</td>
<td>0.1%</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>100.0%</td>
</tr>
</tbody>
</table>

*a* Bone dry unit = 2,400 lb oven-dry wood.

**Table 23**—Production and disposition of residues from Montana’s primary wood products sectors, 2009.

<table>
<thead>
<tr>
<th>Sector</th>
<th>Total utilized</th>
<th>Pulp and board</th>
<th>Energy</th>
<th>Mulch or animal bedding</th>
<th>Unspecified use</th>
<th>Unutilized</th>
<th>Total produced</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1,144</td>
<td>210</td>
</tr>
<tr>
<td>Lumber, plywood and other sawn products</td>
<td>512,425</td>
<td>376,965</td>
<td>107,886</td>
<td>13,191</td>
<td>14,383.00</td>
<td>399</td>
<td>512,824</td>
</tr>
<tr>
<td>House logs and log homes</td>
<td>3,242</td>
<td>-</td>
<td>2,100</td>
<td>306</td>
<td>836</td>
<td>475</td>
<td>3,717</td>
</tr>
<tr>
<td>Posts and poles</td>
<td>15,345</td>
<td>1,528</td>
<td>8,751</td>
<td>120</td>
<td>4,946</td>
<td>2</td>
<td>15,347</td>
</tr>
<tr>
<td>Other sectors*</td>
<td>1,659</td>
<td>-</td>
<td>116</td>
<td>1,510</td>
<td>34</td>
<td>106</td>
<td>1,765</td>
</tr>
<tr>
<td>All sectors</td>
<td>532,671</td>
<td>378,493</td>
<td>118,853</td>
<td>15,127</td>
<td>20,199</td>
<td>982</td>
<td>533,653</td>
</tr>
</tbody>
</table>

**Percentage of residue use and production by sector**

<table>
<thead>
<tr>
<th></th>
<th>Lumber, plywood and other sawn products</th>
<th>House logs and log homes</th>
<th>Posts and poles</th>
<th>Other sectors*</th>
<th>All sectors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bone dry units</td>
<td>99.9%</td>
<td>99.9%</td>
<td>99.9%</td>
<td>94.0%</td>
<td>99.8%</td>
</tr>
<tr>
<td></td>
<td>73.5%</td>
<td>-</td>
<td>6.6%</td>
<td>-</td>
<td>70.9%</td>
</tr>
<tr>
<td></td>
<td>21.0%</td>
<td>56.5%</td>
<td>85.5%</td>
<td>6.6%</td>
<td>22.3%</td>
</tr>
<tr>
<td></td>
<td>2.6%</td>
<td>8.2%</td>
<td>1.9%</td>
<td>2.8%</td>
<td>2.8%</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>0.8%</td>
<td>-</td>
<td>0.8%</td>
<td>3.8%</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>32.2%</td>
<td>-</td>
<td>32.2%</td>
<td>0.2%</td>
</tr>
</tbody>
</table>

*a* Bone dry unit = 2,400 lb oven-dry wood.

*b* Other products include firewood, cedar products and log furniture.
Table 24--Proportion of finished product sales of Montana's primary wood products sectors, selected years (sources: Keegan 1980; Keegan and others 1983, 1990, 1995, 2001; Spoelma and)
--- | --- | --- | --- | --- | --- | ---
Lumber, plywood, and other sawn products | 58 | 55 | 67 | 60 | 53 | 29
Pulp, board, and residue-related products | 38 | 41 | 28 | 30 | 39 | 63
House logs and log homes | 2 | 3 | 5 | 9 | 7 | 4
Other products | 2 | 1 | 1 | 1 | 1 | 4
All products | 100 | 100 | 100 | 100 | 100 | 100

\(a\) Other products include: posts and poles, log furniture, clean chips, cedar products and firewood.
\(b\) Percentage detail may not sum to 100% due to rounding.

Table 25--Destination and sales value of Montana's primary wood products and mill residue, 2009.

<table>
<thead>
<tr>
<th>Product</th>
<th>North Central</th>
<th>Far West</th>
<th>South</th>
<th>Montana</th>
<th>Rockies</th>
<th>Northeast</th>
<th>Other countries</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lumber, plywood, and other sawn products</td>
<td>59,286</td>
<td>10,703</td>
<td>28,618</td>
<td>35,362</td>
<td>21,442</td>
<td>11,334</td>
<td>7,913</td>
<td>174,657</td>
</tr>
<tr>
<td>House logs and log homes</td>
<td>2,360</td>
<td>3,526</td>
<td>743</td>
<td>11,155</td>
<td>3,039</td>
<td>205</td>
<td>-</td>
<td>21,028</td>
</tr>
<tr>
<td>Residue-related products</td>
<td>100,131</td>
<td>88,653</td>
<td>48,246</td>
<td>9,920</td>
<td>37,767</td>
<td>36,179</td>
<td>372,263</td>
<td></td>
</tr>
<tr>
<td>Other finished products</td>
<td>913</td>
<td>5,988</td>
<td>687</td>
<td>13,608</td>
<td>3,246</td>
<td>265</td>
<td>145</td>
<td>24,152</td>
</tr>
<tr>
<td>All products and residues</td>
<td>162,690</td>
<td>108,170</td>
<td>78,293</td>
<td>70,045</td>
<td>65,494</td>
<td>47,983</td>
<td>592,101</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product</th>
<th>North Central</th>
<th>Far West</th>
<th>South</th>
<th>Montana</th>
<th>Rockies</th>
<th>Northeast</th>
<th>Other countries</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lumber, plywood, and other sawn products</td>
<td>10</td>
<td>2</td>
<td>5</td>
<td>6</td>
<td>4</td>
<td>2</td>
<td>1</td>
<td>29</td>
</tr>
<tr>
<td>House logs and log homes</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>Residue-related products</td>
<td>17</td>
<td>15</td>
<td>8</td>
<td>2</td>
<td>6</td>
<td>6</td>
<td>9</td>
<td>63</td>
</tr>
<tr>
<td>Other finished products</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>All products and residues</td>
<td>27</td>
<td>18</td>
<td>13</td>
<td>12</td>
<td>11</td>
<td>8</td>
<td>10</td>
<td>100</td>
</tr>
</tbody>
</table>

\(a\) North Central includes Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin.
\(b\) Far West includes Alaska, California, Hawaii, Oregon, and Washington.
\(c\) South includes Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia.
\(d\) Rocky Mountains includes Arizona, Colorado, Idaho, Nevada, New Mexico, Utah, and Wyoming.
\(e\) Northeast includes Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, Pennsylvania, Rhode Island, and Vermont.
\(f\) Other countries include Canada, Pacific Rim countries, and other countries.
\(g\) Residue-related products include pulp, board, fuel pellets, bark products, and mill residues.
\(h\) Percentage detail may not sum to 100% due to rounding.
### Table 26--Proportion of Montana primary wood product sales by market region, selected years (sources: Keegan 1980; Keegan and others 1983, 1990, 1995, 2001; Spoelma and others 2008).

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>North Central</td>
<td>34</td>
<td>40</td>
<td>37</td>
<td>28</td>
<td>28</td>
<td>27</td>
</tr>
<tr>
<td>Far West</td>
<td>22</td>
<td>17</td>
<td>15</td>
<td>19</td>
<td>17</td>
<td>18</td>
</tr>
<tr>
<td>South</td>
<td>10</td>
<td>10</td>
<td>11</td>
<td>16</td>
<td>15</td>
<td>13</td>
</tr>
<tr>
<td>Montana</td>
<td>7</td>
<td>5</td>
<td>10</td>
<td>12</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>Rocky Mountains</td>
<td>14</td>
<td>11</td>
<td>15</td>
<td>13</td>
<td>10</td>
<td>11</td>
</tr>
<tr>
<td>Northeast</td>
<td>6</td>
<td>7</td>
<td>6</td>
<td>9</td>
<td>12</td>
<td>8</td>
</tr>
<tr>
<td>Other countries&lt;sup&gt;a&lt;/sup&gt;</td>
<td>3</td>
<td>9</td>
<td>6</td>
<td>4</td>
<td>6</td>
<td>10</td>
</tr>
<tr>
<td>Unknown</td>
<td>4</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>All areas&lt;sup&gt;b&lt;/sup&gt;</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>101</td>
<td>100</td>
<td>100</td>
</tr>
</tbody>
</table>

<sup>a</sup>Other countries include Canada, Pacific Rim countries, and other countries.

<sup>b</sup>Percentage detail may not sum to 100% due to rounding.

<sup>c</sup>Includes mill residue sales; previous years do not include any residue sales.