SOUTH CENTRAL ALASKA

This geographic zone was developed with funding from a Joint Fire Sciences Project, 98-1-8-06, A risk-based comparison of potential fuel treatment tradeoff models (Weise et al. 2000, 2003)

Vegetation attributes were based on inventories developed by the Kenai Peninsula Borough through the Spruce Beetle project.

Ecological Stratification
No stratification was used for the Kenai.

Vegetation Attributes

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**Shrub**

<p>| Wil     | willow                             |
| Ald     | alder                              |</p>
<table>
<thead>
<tr>
<th>Species</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>mixed tall shrub</td>
<td>mixed tall shrub</td>
</tr>
<tr>
<td>mixed low shrub</td>
<td>mixed low shrub</td>
</tr>
<tr>
<td>mixed dwarf shrub</td>
<td>mixed dwarf shrub</td>
</tr>
</tbody>
</table>

**Grass**

<table>
<thead>
<tr>
<th>Species</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Herb</td>
<td>herbaceous</td>
</tr>
<tr>
<td>GH</td>
<td>grasses/herbs</td>
</tr>
<tr>
<td>Aqu</td>
<td>aquatic</td>
</tr>
</tbody>
</table>

**Non-forest**

<table>
<thead>
<tr>
<th>Species</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCEAN</td>
<td>ocean</td>
</tr>
<tr>
<td>NF</td>
<td>NF</td>
</tr>
<tr>
<td>ALP</td>
<td>alp</td>
</tr>
<tr>
<td>AGR</td>
<td>agriculture</td>
</tr>
</tbody>
</table>

Table D-1 Species used in the South Central Alaska zone.

<table>
<thead>
<tr>
<th>Size Class</th>
<th>Definition</th>
<th>Size Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tree</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SS</td>
<td>Seedling-sapling</td>
<td>1–5-inch DBH</td>
</tr>
<tr>
<td>SS-SS</td>
<td>Seedling-sapling - seedling-sapling</td>
<td></td>
</tr>
<tr>
<td>SS-POLE</td>
<td>Seedling-sapling - pole</td>
<td></td>
</tr>
<tr>
<td>SS-LARGE</td>
<td>Seedling-sapling-large</td>
<td></td>
</tr>
<tr>
<td>POLE</td>
<td>Pole</td>
<td>5.1–9-inch DBH – conifer</td>
</tr>
<tr>
<td>POLE-SS</td>
<td>Pole-seedling - sapling</td>
<td>5.1–11-inch DBH - hardwood</td>
</tr>
<tr>
<td>POLE-POLE</td>
<td>Pole - pole</td>
<td></td>
</tr>
<tr>
<td>Large Diameter Classes</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>--------------------------------------</td>
<td>-------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>POLE-LARGE</td>
<td>Pole - large</td>
<td></td>
</tr>
<tr>
<td>LARGE</td>
<td>Large</td>
<td></td>
</tr>
<tr>
<td>LARGE-SS</td>
<td>Large – seedling-sapling</td>
<td></td>
</tr>
<tr>
<td>LARGE-POLE</td>
<td>Large – pole</td>
<td></td>
</tr>
<tr>
<td>LARGE-LARGE</td>
<td>Large – large</td>
<td></td>
</tr>
<tr>
<td>SHRUB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TALL-SHRUB</td>
<td>Tall shrub</td>
<td></td>
</tr>
<tr>
<td>LOW-SHRUB</td>
<td>Low shrub</td>
<td></td>
</tr>
<tr>
<td>DWARF-SHRUB</td>
<td>Dwarf shrub</td>
<td></td>
</tr>
<tr>
<td>GRASS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HERB</td>
<td>Herbaceous</td>
<td></td>
</tr>
<tr>
<td>GH</td>
<td>Grass or herbaceous</td>
<td></td>
</tr>
<tr>
<td>AQUATIC</td>
<td>Aquatic herbaceous</td>
<td></td>
</tr>
<tr>
<td>NON-FOREST</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NF</td>
<td>Non-forest</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Density</th>
<th>Definition</th>
<th>Percent of Canopy Closure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tree</td>
<td></td>
<td></td>
</tr>
<tr>
<td>W</td>
<td>Woodland</td>
<td>10-24%</td>
</tr>
<tr>
<td>O</td>
<td>Open</td>
<td>25-59%</td>
</tr>
<tr>
<td>C</td>
<td>Closed</td>
<td>60-100%</td>
</tr>
<tr>
<td>Shrub</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Disturbance Processes

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSF</td>
<td>Light severity fire</td>
</tr>
<tr>
<td>MSF</td>
<td>Mixed severity fire</td>
</tr>
<tr>
<td>SRF</td>
<td>Stand replacing fire</td>
</tr>
<tr>
<td>LOW-WINDTHROW</td>
<td>Low windthrow</td>
</tr>
<tr>
<td>MEDIUM-WINDTHROW</td>
<td>Medium windthrow</td>
</tr>
<tr>
<td>HIGH-WINDTHROW</td>
<td>High windthrow</td>
</tr>
<tr>
<td>WILDLIFE-BROWSING</td>
<td>Wildlife browsing in aspen and birch</td>
</tr>
<tr>
<td>ROOT-DISEASE</td>
<td>Root disease</td>
</tr>
<tr>
<td>LIGHT-SB</td>
<td>Light spruce beetle</td>
</tr>
<tr>
<td>MEDIUM-SB</td>
<td>Medium spruce beetle</td>
</tr>
<tr>
<td>HIGH-SB</td>
<td>High spruce beetle</td>
</tr>
</tbody>
</table>

Table D-4 Disturbance Processes used in the South Central Alaska zone.

Discussion of System Knowledge

Root Disease is the only process probability logic that is accessible in the user interface. Windthrow and Wildlife Browsing must be locked-in to be used. The spruce beetle probability comes from the incorporation of components of the spruce beetle expert system, Reynolds and Holsten (1997). The system knowledge on the spruce beetle probability is not accessible.