Fire Regime Condition Class (FRCC) Interagency Handbook
Reference Conditions

Modeler: Doug Havlina           Date: 8/13/03           PNVG Code: JUST2

Potential Natural Vegetation Group: Juniper Steppe-Ancient

Geographic Area: Pacific Northwest, Columbia Plateau, Great Basin.

Description: PNVG common on mountain slopes, high plateaus, scablands, and rimrock sites. Soils are shallow, stony, and low in organics. The climate is the most xeric for any tree occurring in the western U.S. Associates may include big sagebrush spp., curleaf mountain mahogany, bitterbrush, rabbitbrush spp., and a variety of arid land bunchgrasses. Stand development patterns range from savannahs to old-growth individuals on rocky sites.

Fire Regime Description: Fire Regimes III and V; primarily long-interval (e.g., >250 yr) mixed severity- and stand replacement fires.

Vegetation Type and Structure

<table>
<thead>
<tr>
<th>Class</th>
<th>Percent of Landscape</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A: post replacement replacement</td>
<td>4</td>
<td>Post-fire community of scattered forbs and perennial grasses</td>
</tr>
<tr>
<td>B: mid-development closed</td>
<td>4</td>
<td>Mid-seral, dense (&gt;40% cover) juniper stands with bare ground and occasional forbs and grasses</td>
</tr>
<tr>
<td>C: mid- open</td>
<td>10</td>
<td>Mid-seral, open (&lt;40% cover) juniper stands with perennial grasses and forbs in interspaces</td>
</tr>
<tr>
<td>D: late- open</td>
<td>80</td>
<td>Late-seral, open (&lt;40% cover) juniper community with well represented shrub/herbaceous community</td>
</tr>
<tr>
<td>E: late- closed</td>
<td>2</td>
<td>Uncommon developmental stage. Late-seral, closed (&gt;40% canopy) juniper community. Depauperate or non-existent shrub and herbaceous community.</td>
</tr>
<tr>
<td>Total</td>
<td>100</td>
<td></td>
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</tbody>
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Fire Frequency and Severity

<table>
<thead>
<tr>
<th>Fire Frequency- Severity</th>
<th>Modeled Probability</th>
<th>Pct, All</th>
<th>Description Fires</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire Type</td>
<td>Probability</td>
<td>Frequency</td>
<td></td>
</tr>
<tr>
<td>-------------------</td>
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<td></td>
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<tr>
<td>Replacement Fire</td>
<td>.0015</td>
<td>43</td>
<td></td>
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<tr>
<td>Non-Replacement</td>
<td>.002</td>
<td>57</td>
<td></td>
</tr>
</tbody>
</table>

Stand replacement fire following successive years of high precipitation and fine fuel accumulation.

Surface and mosaic fires in herbaceous layer; occasional single-tree mortality.

All Fire Frequency*  .0035  100

*Sum of replacement fire and non-replacement fire probabilities.

References


VDOT RESULTS

Class A: Early-Develop, PstRpl

Class C: Mid-Develop, Open

Class D: Late-Develop, Open
Class A: Early-Develop, PstRpl

Class B: Mid-Develop, Clsd

Class E: Late-Develop, Clsd