Top Priority Fire Treatment Counties
Counties determined by CALFIRE
(10 counties)
Mortality on National Forests within “bufferwood” counties in 2018

Total Deadwood Acres in the State = 1,232,900
Total Dead Trees in the State = 11,431,000

- Six Rivers NF: 38,000 ac; 213,000 trees
- Shasta-Trinity NF: 64,000 ac; 260,000 trees
- Mendocino NF: 32,000 ac; 131,000 trees
- El Dorado NF: 72,000 ac; 571,000 trees
- Stanislaus NF: 75,000 ac; 670,000 trees
- Sierra NF: 206,000 ac; 3,700,000 trees
- Sequoia NF: 142,000 ac; 2,400,000 trees
- Klamath NF: 34,000 ac; 172,000 trees
- Modoc NF: 83,000 ac; 820,000 trees
- Lassen NF: 184,000 ac; 686,000 trees
- Plumas NF: 125,000 ac; 523,000 trees
- Lake Tahoe Basin: 14,000 ac; 94,000 trees
- Tahoe NF: 93,500 ac; 387,000 trees
HHZ Tier 1 acres
“Bufferwood” Initiative Counties

- 435,039 forested acres in buffer
- 25 counties
- 35% federal acres
- 64% private acres
- 1% state acres

- Focus is on forest-designated acres
- Buffer = 300’ setback each side from centerline of currently open, improved roads.

GIS mapping data for proposed “Bufferwood” Initiative accessible at [www.databasin.org](http://www.databasin.org) (search “Bufferwood”) then click on “Bufferwood: High Hazard Forests, Road Adjacent, CA Raster”).
**Proposed Bufferwood Working Circles Counties**
*(based on ~ 50 radial miles from circle center)*

- Humboldt
- Trinity
- Mendocino
- Tehama
- Glenn
- Colusa
- Lake
- Shasta
- Siskiyou
- Butte
- Sierra
- Nevada
- Yuba
- Plumas
- Toulumne
- Mariposa
- Madera
- El Dorado
- Alpine
- Amador
- Calaveras

Figure D
“Bufferwood” Acres by Working Circles
(Total = 435,039 acres)
Total Deadwood Acres in the State = 1,232,900
Total Dead Trees in the State = 11,431,000

Over 50% of deadwood trees are located in two National Forests (Sierra and Sequoia) out of 18 statewide. Modoc NF housed the 3rd largest number of dead trees.

8% of deadwood trees in the state (870,000 trees) are housed in the Modoc NF affecting 3 “bufferwood” counties.

53% of deadwood trees in the state (6,100,000 trees) are housed in the Sierra and Sequoia NFs affecting 5 “bufferwood” counties.

Number of dead trees by “bufferwood” working circles
(2018 data)

Figure F
Total Deadwood Acres in the State = 1,232,900
Total Dead Trees in the State = 11,431,000

Over 50% of all deadwood acres in the state are located in four (4) National Forests (Plumas, Lassen, Sierra, Sequoia) affecting many “bufferwood” counties.

25% of all deadwood acres in the state (309,000 ac) are housed in the Plumas and Lassen National Forests affecting 6 “bufferwood” counties.

29% of all deadwood acres (348,000 ac) in the state are housed in the Sierra and Sequoia National Forests affecting 6 “bufferwood” counties.
**Fires by the Numbers**

All acres burned in California between 2013 thru 2019 where each fire event was less than 1,000 acres in size.

- Total acres burned between 2013 through 2019 in California in this size category = 166,590 acres.
- Save for Working Circles 2 and 8, all other “bufferwood” working circles each had between 10,000 to 15,000 acres burned in this size category.
- “Bufferwood” county acres burned = 86,973 acres (52% of statewide total).
- Non-“bufferwood” county acres burned = 79,617 acres (48% of statewide total)

---

**Figure H**

- 3,572 acres
- 12,979 acres
- 15,293 acres
- 10,807 acres
- 13,763 acres
- 11,802 acres
- 9,757 acres
- 9,000 acres
Fires by the Numbers

All acres burned in California between 2013 thru 2019 where each fire event was more than 1,000 acres in size.

- Total acres burned between 2013 through 2019 in California in this size category = 5,637,375 acres.
- Nine (9) bufferwood counties in this size category housed 53% (2,961,904 ac) of all acres burned in the state between 2013 through 2019. 70% of these bufferwood acres are located in working circles 1,2 and 3.
- “Bufferwood” county acres burned = 3,771,444 acres (67% of statewide total).
- Non-“bufferwood” county acres burned = 1,845,931 acres (33% of statewide total)
Figure J

Number of Fires:
725 fires within bufferwood counties from 2013 through October 2019

<table>
<thead>
<tr>
<th># of Fires &lt;1k acres per occurrence</th>
<th>2013</th>
<th>'14</th>
<th>'15</th>
<th>'16</th>
<th>'17</th>
<th>'18</th>
<th>'19</th>
<th>Total</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northern Bufferwood (Counties)</td>
<td>33</td>
<td>23</td>
<td>37</td>
<td>41</td>
<td>77</td>
<td>63</td>
<td>51</td>
<td>325</td>
<td>55%</td>
</tr>
<tr>
<td>Central Bufferwood</td>
<td>14</td>
<td>20</td>
<td>18</td>
<td>25</td>
<td>32</td>
<td>25</td>
<td>18</td>
<td>152</td>
<td>26%</td>
</tr>
<tr>
<td>Southern Bufferwood</td>
<td>9</td>
<td>4</td>
<td>7</td>
<td>17</td>
<td>43</td>
<td>19</td>
<td>15</td>
<td>114</td>
<td>19%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th># of Fires &gt; 1k acres per occurrence</th>
<th>2013</th>
<th>'14</th>
<th>'15</th>
<th>'16</th>
<th>'17</th>
<th>'18</th>
<th>'19</th>
<th>Total</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northern Bufferwood</td>
<td>7</td>
<td>11</td>
<td>12</td>
<td>3</td>
<td>19</td>
<td>17</td>
<td>5</td>
<td>74</td>
<td>55%</td>
</tr>
<tr>
<td>Central Bufferwood</td>
<td>4</td>
<td>6</td>
<td>2</td>
<td>2</td>
<td>5</td>
<td>4</td>
<td>2</td>
<td>25</td>
<td>18%</td>
</tr>
<tr>
<td>Southern Bufferwood</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>9</td>
<td>16</td>
<td>1</td>
<td>1</td>
<td>35</td>
<td>26%</td>
</tr>
</tbody>
</table>

725 fires within bufferwood counties from 2013 through October 2019.
Based on mortality, key focus should be on product applications for **red fir** and **white fir**, and to a lesser extent **ponderosa pine**.
Matter Draft: Supply

Net cumulative sawtimber and fuelwood volume (mbf) sold and cut in CA National Forests housed in “Bufferwood” counties during 2009 thru 2018

(Total 10-yr cumulative sawtimber sold but not cut = 355 mmbf)
(Total 10-yr cumulative fuelwood volume cut but not sold = 19 mmbf)

**Klamath NF:**
- More sawtimber sold than cut: 72,958 mbf
- More fuelwood cut than sold: 1,921 mbf
- Key purchasers: Siskiyou Cascades Resources, Croman Corp

**Six Rivers NF:**
- More sawtimber sold than cut: 26,094 mbf
- More fuelwood cut than sold: 532 mbf
- Key purchaser: Trinity River Lbr

**Shasta-Trinity NF:**
- More sawtimber cut than sold: -21,756 mbf
- More fuelwood sold than cut: 1,317 mbf
- Key purchasers: Scott Timber, SPI

**Mendocino NF:**
- More sawtimber sold than cut: 19,502 mbf
- More fuelwood cut than sold: 207 mbf
- Key purchaser: SPI

**Tahoe NF:**
- More sawtimber sold than cut: 20,093 mbf
- More fuelwood cut than sold: 359 mbf
- Key purchaser: SPI

**El Dorado NF:**
- More sawtimber sold than cut: 54,395 mbf
- More fuelwood cut than sold: 229 mbf
- Key purchasers: SPI, JW Bamford

**Modoc NF:**
- More sawtimber sold than cut: 31,818 mbf
- More fuelwood cut than sold: 607 mbf
- Key purchasers: Franklin Logging, Flying K Logging

**Lassen NF:**
- More sawtimber sold than cut: 19,932 mbf
- More fuelwood cut than sold: 1,075 mbf
- Key purchasers: SPI, Frank Foley

**Plumas NF:**
- More sawtimber sold than cut: 10,019 mbf
- More fuelwood cut than sold: 461 mbf
- Key purchasers: SPI, JW Bamford

**Lake Tahoe NF:**
- More sawtimber sold than cut: 7,317 mbf
- More fuelwood cut than sold: 568 mbf
- Key purchasers: SPI

**Sierra NF:**
- More sawtimber sold than cut: 46,712 mbf
- More fuelwood cut than sold: 11,040 mbf
- Key purchaser: SPI

**Sequoia NF:**
- More sawtimber sold than cut: 678 mbf
- More fuelwood cut than sold: 624 mbf
- Key purchaser: SPI

Net cumulative sawtimber and fuelwood volume (mbf) sold and cut in CA National Forests housed in “Bufferwood” counties during 2009 thru 2018

Figure L
Only 5 “bufferwood” counties experienced avg annual harvest volume decreases from private lands in 2014-2018 compared to 2009-2013. The total avg annual decreases equaled over 50 mmbf.

<table>
<thead>
<tr>
<th>mbf</th>
<th>WC</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shasta</td>
<td>(-12,854)</td>
<td>1</td>
</tr>
<tr>
<td>Tehama</td>
<td>(-26,302)</td>
<td>3</td>
</tr>
<tr>
<td>Amador</td>
<td>(-4,915)</td>
<td>5</td>
</tr>
<tr>
<td>Nevada</td>
<td>(-6,158)</td>
<td>4</td>
</tr>
<tr>
<td>Alpine</td>
<td>(-6)</td>
<td>5</td>
</tr>
</tbody>
</table>

Twenty-one (80%) of “bufferwood” counties that experienced the increases in avg annual harvest volumes from private lands in 2014-2018 compared to 2009-2013. The total avg annual harvest volume increase from private lands equaled 202 mmbf. Counties with the highest average volume increases (68% of increases):

- Siskiyou = 35,006 1 17%
- Humboldt = 38,244 2 19%
- Mendocino = 28,829 3 14%
- El Dorado = 36,455 5 18%
Eleven out of 25 (44%) “bufferwood” counties experienced increases in avg annual harvest volumes from National Forests. The total avg annual harvest volume increases equaled 102 mmbf.

Almost 60% of that volume increase occurred in 2 counties:

- Placer = 26,723
- Toulumne = 31,289

Fourteen out of 25 (56%) “bufferwood” counties experienced decreases in avg annual harvest volumes from FS lands during the last 5 years compared to 2009-2013. The total avg annual harvest volume decreases equaled 18.6 mmbf.

- Humboldt = (- 762)
- Glenn = (- 1,203)
- Lake = (- 645)
- Colusa = (- 362)
- Plumas = (- 2,708)
- Sierra = (- 3,479)
- Yuba = (- 1,060)
- Nevada = (- 977)
- Amador = (- 846)
- Alpine = (- 1,131)
- Calaveras = (- 2,438)
- Tulare = (- 512)
- Kern = (- 2,487)

**USFS Lands Harvest Volume by “Bufferwood” County (2009-2018)**

Average annual harvest increases/decreases in 2014-2018 compared to 2009-2013.
Best bets in “bufferwood” working circles for added future timber supply:

- Charts to the right show total average annual increases in harvested volumes for 2014-2018 compared to 2009-2013 in “bufferwood” counties within working circles.

- Assuming 2020-2024 avg annual harvest volumes equals an additional 50% above the percentage increases in avg annual harvest volumes that occurred in each working circle during the second half decade, best bets for increased supply are from four “bufferwood” working circles (1,2,5, and 6).
Sawmills in operation in 2019

<table>
<thead>
<tr>
<th>Working Circle</th>
<th>Company</th>
<th>City</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Sierra Pacific</td>
<td>Anderson</td>
</tr>
<tr>
<td>1</td>
<td>Shasta Green Sawmill</td>
<td>Burney</td>
</tr>
<tr>
<td>1</td>
<td>Sierra Pacific</td>
<td>Burney</td>
</tr>
<tr>
<td>1</td>
<td>Sierra Pacific</td>
<td>Redding</td>
</tr>
<tr>
<td>1</td>
<td>Alta California Roundwood</td>
<td>Anderson</td>
</tr>
<tr>
<td>1</td>
<td>Roseburg Forest Products Veneer Mill</td>
<td>Weed</td>
</tr>
<tr>
<td>1</td>
<td>Fruit Growers Supply Co</td>
<td>Yreka</td>
</tr>
<tr>
<td>1</td>
<td>Timber Products Co</td>
<td>Yreka</td>
</tr>
<tr>
<td>2</td>
<td>Schmidbauer Lumber</td>
<td>Eureka</td>
</tr>
<tr>
<td>2</td>
<td>Arcata Forest Products</td>
<td>Arcata</td>
</tr>
<tr>
<td>2</td>
<td>North Fork Lumber Co</td>
<td>Korbel</td>
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<tr>
<td>2</td>
<td>Arcata Forest Products</td>
<td>Arcada</td>
</tr>
<tr>
<td>3</td>
<td>Collins Pine</td>
<td>Lakeview</td>
</tr>
<tr>
<td>3</td>
<td>Agwood Mill &amp; Lumber Co</td>
<td>Ukiah</td>
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<tr>
<td>3</td>
<td>Mendocino Forest Products</td>
<td>Ukiah</td>
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<tr>
<td>4</td>
<td>Sierra Pacific</td>
<td>Oroville</td>
</tr>
<tr>
<td>4</td>
<td>Apex Lumber</td>
<td>Oroville</td>
</tr>
<tr>
<td>4</td>
<td>Collins Pine</td>
<td>Chester</td>
</tr>
<tr>
<td>4</td>
<td>Sierra Pacific</td>
<td>Quincy</td>
</tr>
<tr>
<td>5</td>
<td>Sierra Pacific</td>
<td>Lincoln</td>
</tr>
<tr>
<td>5</td>
<td>Bohemia</td>
<td>Lincoln</td>
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<td>5</td>
<td>California Hardwood Producers</td>
<td>Auburn</td>
</tr>
<tr>
<td>6</td>
<td>Sierra Pacific</td>
<td>Chinese Camp</td>
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<td>6</td>
<td>Sierra Pacific</td>
<td>Sonora</td>
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<tr>
<td>7</td>
<td>Sierra Forest Products</td>
<td>Terra Bella</td>
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</tbody>
</table>
Figure Q

Sawmills idle in 2019