

<b>Source Category:</b>	<b>Prescribed Burning</b>
<b>SCC Code:</b>	<b>2610000500</b>
<b>Pollutants of Concern:</b>	<b>PM-10, PM-2.5</b>
<b>How is the National Emission Inventory developed for this category?</b>	
<b>Current Methodology (see also the link to the NEI Methodology Description):</b>	
<ul style="list-style-type: none"> <li>• Acres burned at the State-level were obtained directly from four U.S. Department of the Interior agencies. Activity data from U.S. Forest Service (USFS) and State/private lands available from the National Interagency Fire Center (NIFC) was available only at the regional level.</li> <li>• The activity data was allocated to the county level using BELD2 land cover type acreage for rural forest, brush, and grass categories. NIFC regions were matched with USFS regions and BELD2 factors were then developed to allocate both USFS and State/private regional data to the State level. State-level data from both agencies were allocated to the county level using BELD2 State-to-county factors with the exception of AK and HI which BELD2 does not cover. AK and HI were allocated using 1996 NTI data.</li> <li>• AP-42 and regional loading factors were used to estimate emissions from county level activity data.</li> </ul>	
<b>Current Variables/Assumptions Used:</b>	
<ul style="list-style-type: none"> <li>• An activity factor, expressed as the sum of land acres burned at the fuel category level for the prescribed burn (<i>U.S. Forest Service</i>).</li> <li>• Emission factors for the fuel category and loading factors (<i>AP-42</i>).</li> </ul>	
<b>Uncertainties / Shortcomings of Current Methods:</b>	
<ul style="list-style-type: none"> <li>• Estimates of acres burned in prescribed fire may underreport fires on private lands.</li> <li>• Average fuel loading factors may misrepresent the mass burned in many locations.</li> <li>• Fires are assumed to burn out underbrush only, and may misrepresent total emissions if fires extend into the canopy (even for brief periods).</li> <li>• Prescribed burn acreage is not updated each year, thus, it may not represent current practices &amp; trends.</li> </ul>	
<b>How can States, Locals, and Tribes improve upon this methodology?</b>	
<ul style="list-style-type: none"> <li>• State or local estimates of on number of acres burned, the location of each burn, the timing and duration of each burn. (<i>State Forest or Agriculture Dept, BLM, BIA, FWS, USFS</i>)</li> <li>• Local estimates of fuel loading factors. (<i>State Forest or Agriculture Dept., BLM, BIA, FWS, USFS</i>)</li> </ul>	

- State or local estimates of the months when prescribed burns are conducted. (*State Forest or Agriculture Dept., BLM, BIA, FWS, USFS*)

**Where can I find Additional Information and Guidance?**

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<b>AP-42 Section 13.1</b>	<a href="http://www.epa.gov/ttn/chief/ap42/ch13/final/c13s01.pdf">http://www.epa.gov/ttn/chief/ap42/ch13/final/c13s01.pdf</a>
<b>Area Source Emissions Model</b>	<a href="http://www.epa.gov/ttn/chief/software/asem/index.html">http://www.epa.gov/ttn/chief/software/asem/index.html</a>
<b>County Level Emission Density Maps for this Source Category</b>	<a href="http://www.epa.gov/ttn/chief/eiip/pm25inventory/densitymaps.pdf">http://www.epa.gov/ttn/chief/eiip/pm25inventory/densitymaps.pdf</a>
<b>NEI Methodology Description</b>	<a href="ftp://ftp.epa.gov/EmisInventory/finalnei99ver2/criteria/">ftp://ftp.epa.gov/EmisInventory/finalnei99ver2/criteria/</a> or <a href="http://www.epa.gov/ttn/chief/eidocs/sec7part1_wldfires_jan5.pdf">http://www.epa.gov/ttn/chief/eidocs/sec7part1_wldfires_jan5.pdf</a>