

# Smoke Matrices

These matrices summarize the attributes and outputs of the eight wildland fire air quality tools available from the Wildland Fire Air Quality Tools portal page: <http://firesmoke.us/wfdss>. The portal page can also be accessed from within WFDSS by selecting Fire Related Links from the left hand menu on the Information tab of a specific incident. Users can run the tools from the Wildland Fire Air Quality portal page which also provides detailed information about the tools and their inputs and outputs.

## Wildland Fire Air Quality Tool Attributes

		Instant Access	Easy to Use	Localized	Regional	Textual	Graphical	Interactive	Smoke	Atmospheric Conditions
Historical Data	Diurnal Surface Wind Pattern Analysis	X	X	X			X			X
	Climatological Ventilation Index Point Stats	X		X			X			X
	Probabilistic Smoke Impacts based on Past Weather				X		X		X	
Current Condition	Current Air Quality Conditions Map	X	X		X		X		X	
Forecast/Gaming	Smoke Guidance Point Forecast	X	X	X		X				X
	Fire Information & Smoke Trajectories	X	X		X		X	X	X	
	Customized Fuels, Consumption, & Smoke Modeling	X	X	X	X	X	X	X	X	
	Smoke Guidance Regional Maps	X	X		X		X		X	X

## Wildland Fire Air Quality Tools

	Historical Data	Current Conditions	Forecast/Gaming
Atmospheric Conditions	<ul style="list-style-type: none"> <li>Diurnal Surface Wind Pattern Analysis <small>graphic</small></li> <li>Climatological Ventilation Index Point Statistics <small>graphic</small></li> </ul>		<ul style="list-style-type: none"> <li>Smoke Guidance Point Forecast <small>text</small></li> <li>Smoke Guidance Regional Maps <small>graphic</small></li> </ul>
Smoke	<ul style="list-style-type: none"> <li>Probabilistic Smoke Impacts <small>graphic</small></li> </ul>	<ul style="list-style-type: none"> <li>Current Air Quality Conditions Map <small>graphic</small></li> </ul>	<ul style="list-style-type: none"> <li>Customized Fuels Consumption &amp; Smoke Modeling <small>text</small> <small>graphic</small></li> <li>Smoke Guidance Regional Maps <small>graphic</small></li> <li>Fire Information &amp; Smoke Trajectories <small>graphic</small></li> </ul>

Localized Tool
Regional Tool
Local & Regional Tool
 Text Output

Graphical Output