

Deception Fire

Air Quality Report and Outlook for 9/11/14

Yesterday, fire operations designed to protect the northern and western perimeters continued, with minimal new burning limited due to high winds. Some of this smoke emitted from interior burning flow down drainage and pooled in the valley causing elevated PM concentrations Thursday morning. The Westfir and Oakridge, monitors recorded moderate over night and early morning PM levels for a short period. By midafternoon today, air quality improves to the good range. The forecast inversion will not be a deep as the night before, and with winds a bit faster smoke will not accumulate in low laying areas. Air quality will start to improve after the morning inversion breaks.

Today's smoke will transport to the west-northwest with easterly winds forecasted for the entire day. Increase wind speed for today will limit any new burn out operations, but there could be increase in the internal burning. With the combination of warmer temperatures and dry conditions, there is a chance of increase emission production; however, with high mixing heights and fast easterly transport winds, we can expect good smoke dispersion. We forecast the morning air quality to reach "**Unhealthy for Sensitive Groups**" in Westfir as smoke vents down the Deception Creek drainage, and "**Moderate**" for Oakridge. Smoke should clear after winds increase with inversion break.

Deception Complex Smoke Report (prepared by Tod Johnson and Mark Fitch, Air Resource Advisors)

Air Quality Forecast for Thursday (Particulate Matter less than 2.5 µm in diameter)

Site	Thursday Morning Sep 11, 2014	Thursday Afternoon Sep 11, 2014	Thursday Evening Sep 11, 2014
Oakridge	Moderate	Good	Moderate
Westfir	USG	Good	USG
Dexter	Moderate	Good	Moderate

AQI Index (µg/m3)	Potential Health Impacts	Actions to Protect Yourself
Good (0-12)	Air quality is satisfactory and poses little or no health risk.	None
Moderate (13-35)	Air quality is acceptable for most. There may be moderate health concern for a small number of sensitive people.	Unusually sensitive people should consider reducing prolonged or heavy outdoor exertion.
Unhealthy for Sensitive Groups (36-55)	Members of sensitive groups may experience health effects. The general public is not likely to be affected.	People with heart or lung disease, children and older adults should reduce prolonged or heavy outdoor exertion. Everyone else should limit prolonged or heavy exertion.
Unhealthy (56-150)	Everyone may begin to experience more serious health effects.	The following groups should avoid all physical outdoor activity: People with heart or lung disease, children and older adults. Everyone else should avoid prolonged or heavy exertion.
Very Unhealthy (151-250)	Triggers a health alert, meaning everyone may experience more serious health effects	Everyone should avoid any outdoor exertion; people with respiratory or heart disease, the elderly and children should remain indoors.

For more information see the Oregon Smoke blog: <http://oregonSmoke.blogspot.com>

Air Quality data can be viewed at: <http://www.deq.state.or.us/aqi/index.aspx>