

# Deception Fire

## Air Quality Report and Outlook for 9/8/14

Yesterday's operations protected the perimeter along the northern edge to limit fire growth. The burnout operations combined with continued burning of interior islands resulted in an additional smoke production during yesterday's shift. Some of the smoke from yesterday descended causing elevated PM concentrations Monday morning. From Dexter east to Oakridge nighttime and early morning surface concentrations are a bit elevated. Smoke also flowed down the Deception creek drainage affecting the Westfir community last night and early morning. Oakridge conditions remained moderate throughout the day and night times.

Today's winds will be easterly in the morning switching to north-west winds by the afternoon. Smoke will start to lift by early afternoon, and the burn team will begin burnout operations on the north west perimeter. Smoke will linger all day from Dexter to Oakridge as smoke drifts down valley. By the afternoon winds will increase and become northwest moving smoke to the north and northeast. Cooler temperatures and a more stable atmospheric will suppress lofting with the majority of this smoke settle in the Oakridge area. Anticipate Eugene and Cottage Grove to be hazy today, coming under influence of the Yellow Pine fire. We forecast the air quality to reach "**Unhealthy for Sensitive Groups**" in Westfir as smoke vents down the Deception Creek drainage this afternoon, and "**Moderate**" for Oakridge into the evening as smoke pools with cooling temperatures.

### Deception Complex Smoke Report (prepared by Tod Johnson and Mark Fitch, Air Resource Advisors) Air Quality Forecast for Monday (Particulate Matter less than 2.5 µm in diameter)

Site	Monday Morning Sep 8, 2014	Monday Afternoon Sep 8, 2014	Monday Evening Sep 8, 2014
Oakridge	Unhealthy for Sensitive Groups	Moderate	Moderate
Westfir	Unhealthy for Sensitive Groups	Moderate	Unhealthy for Sensitive Groups
Dexter	Moderate	Moderate	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>