

**Smoke Impact Report – Shasta-Trinity/Six Rivers National Forest August 15, 2015.**

**A) Fire growth**

<b>Complex Names</b>	<b>Fire Growth Yesterday</b>	<b>Total Acre</b>
Fork Complex	1033 Acres	32,005 Acres
Mad River Complex	460 Acres	22,409 Acres
River Complex	2795 Acres	35,791 Acres
Route Complex	397 Acres	27,338 Acres
South Complex	1796 Acres	19,006 Acres
Gasquet Complex	434 Acres	3,615 Acres
Nickowtiz Fires	575 Acres	2,184 Acres
Total	6915 Acres	140,164 Acres

Information came from Infrared Flights

**B) Weather**

Onshore Northwesterly wind is expected for today into Trinity/Shasta County line. Overnight, weak northeasterly wind will occur in Trinity, Humboldt and Del Norte County. Tomorrow, Northeasterly wind will persist in Del Norte County, but Northwesterly onshore wind is expected to develop into Trinity County. Northerly wind is expected in the Sacramento Valley in the night time period. Weak transport wind speed is forecast for the next few days.

**C) Fire Behavior**

With generally hotter and drier weather, fire behavior analysts are predicting longer burn window today. This has the potential for more acreage burn and thus, generating more smoke.

**D) Smoke**

All complexes/fires in the area grew about 6915 acres yesterday. This generates decent amount of smoke. Smoke dispersion will be limited in the next few days due to weak transport wind speed. Air quality is not likely to improve in the area.

Northwesterly onshore wind pushes smoke to the Southeast today (Figure 1,3). Overnight, smoke is likely to settle down in river drainages, but is pushed slightly to the west (Figure 2,4). The displayed model runs did not cover fires in Southern Oregon. With a southerly flow, Crescent City, Gasquet, Happy Camp, Yreka, Etna and Mt. Shasta may be impacted by smoke from these fires that are not included in this particular model run.

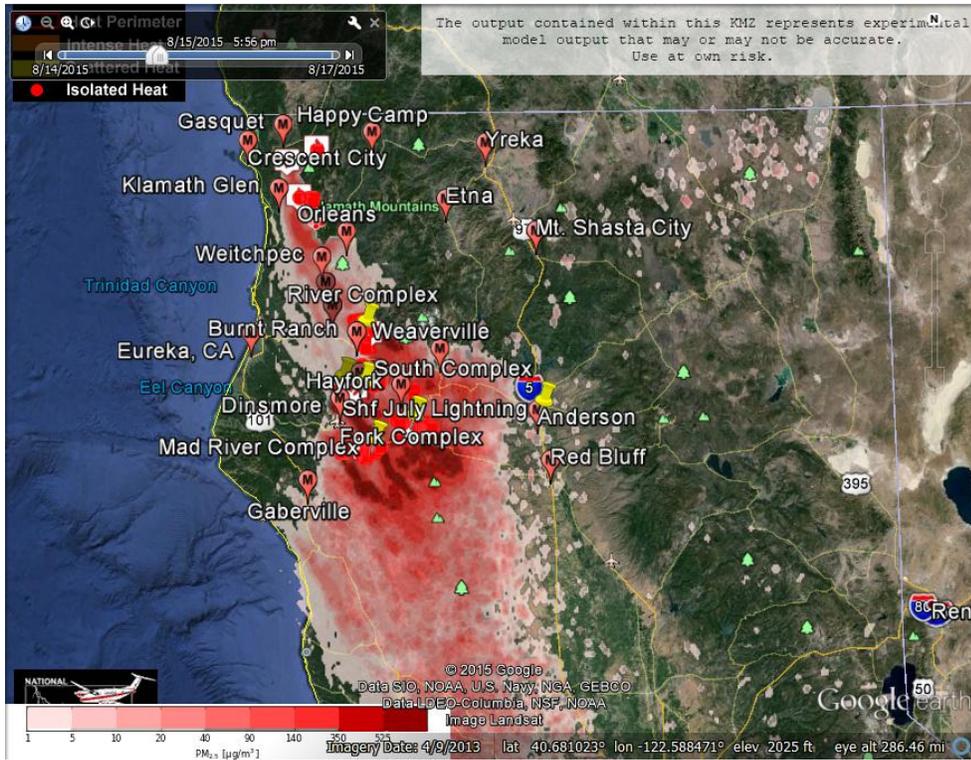


Figure 1: Bluesky run for 6pm on August 15, 2015.

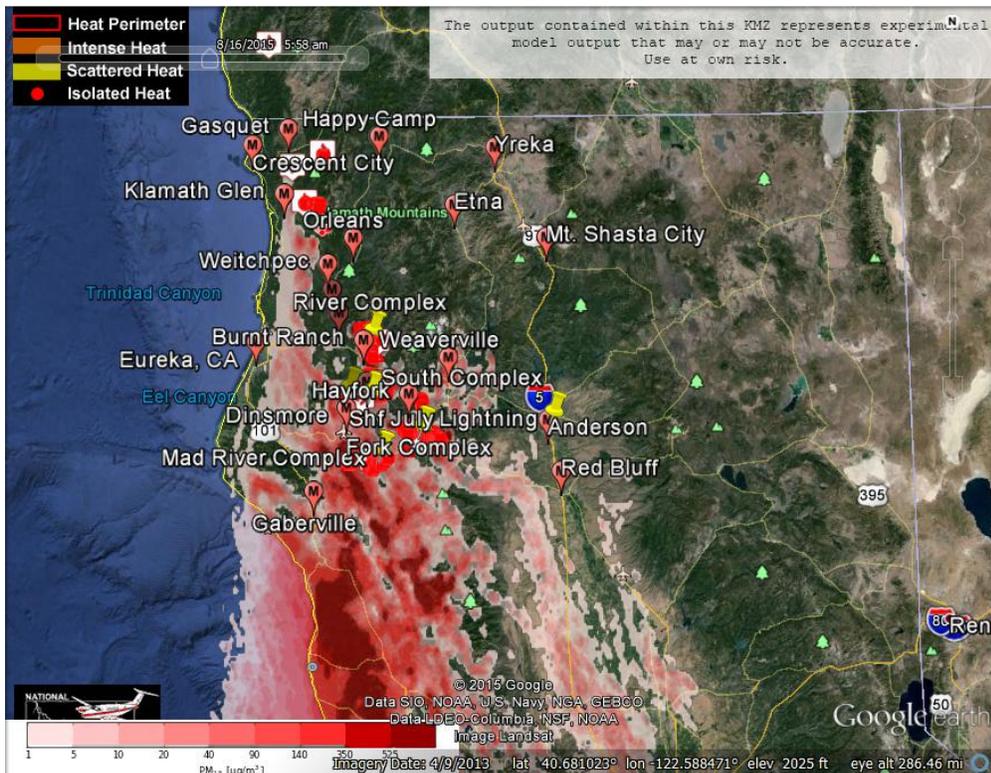


Figure 2: Bluesky run for 6am on August 16, 2015

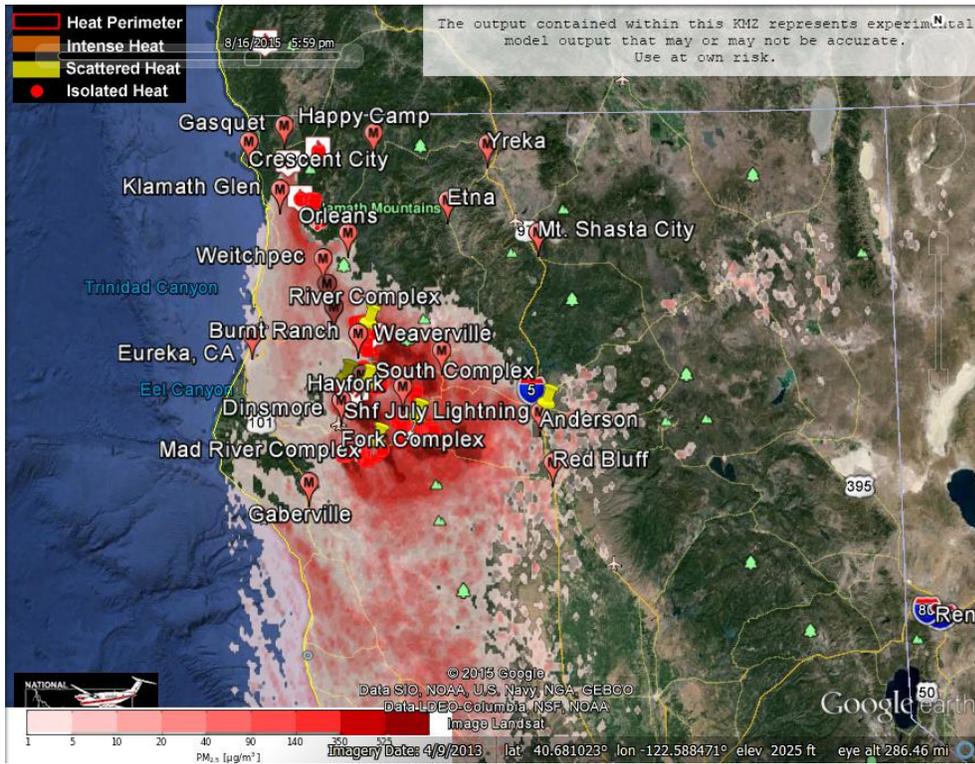


Figure 3: Bluesky run for 6pm on August 16, 2015

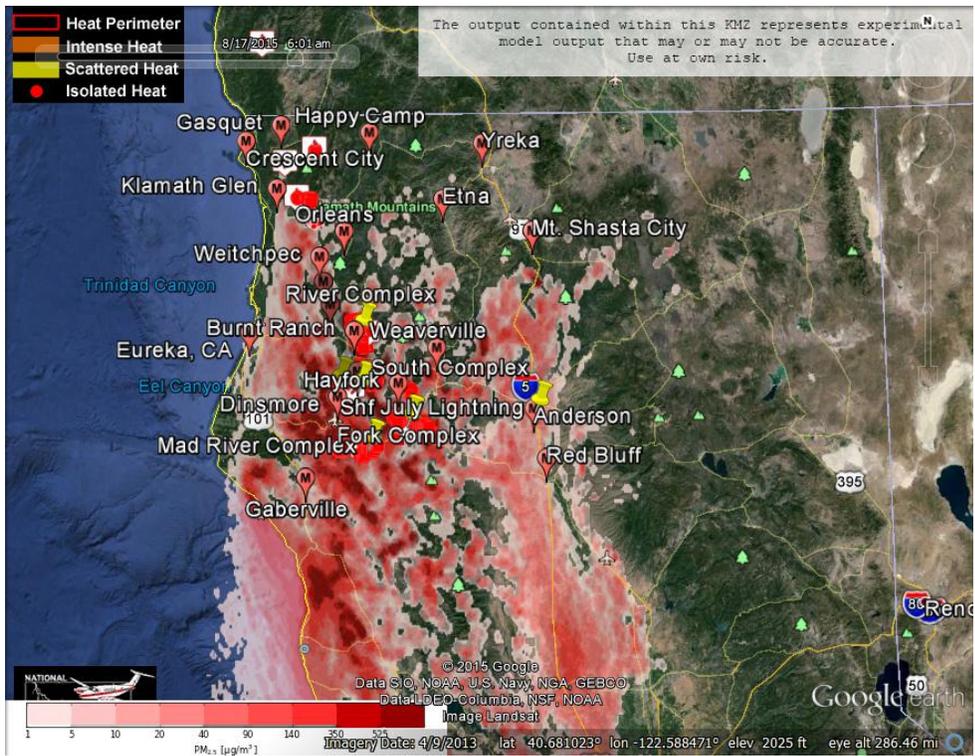


Figure 4: Bluesky run for 6am on August 17, 2015

Forecast conditions represent impacts from smoke. Contributions from ozone and other pollutants are not reflected.

**Smoke Synopsis:**

On Friday, based on 24-hour averages, a number of PM Monitors reported "Good" or "Moderate" air quality in the area. But, Mad River reported "USG" condition. "Unhealthy" condition was reported at Anderson/Redding. "Very Unhealthy" condition was reported at Hayfork, Hyampom, Burnt Ranch and Weaverville. With a High pressure established over the area, air quality is not likely to improve in the next few days.

Today: Smoke dispersion will be limited due to slow transport wind over the area. Northwesterly/Westerly onshore wind will flow to Trinity/Shasta County line today. Tonight, weak offshore Northeasterly wind is expected tonight in Del Norte, Humboldt and Trinity County and Northerly wind is expected in Siskiyou and Shasta County. Smoke will settle in Trinity River drainage, South Fork Trinity River drainage, Klamath River drainage and the Sacramento Valley tonight.

Tomorrow: Smoke dispersion will be limited due to slow transport wind over the area. Northeasterly offshore wind is expected in Del Norte County. Northerly wind is expected in Siskiyou County. Onshore Westerly/Northwesterly wind is likely to occur in Humboldt and Trinity County. Wind in Sacramento Valley is going to be weak. Tomorrow night, offshore northeasterly wind in Del Norte County will continue, but Northerly wind is expected in Shasta County. Smoke will settle in Trinity River drainage, South Fork Trinity River drainage, Klamath River drainage and the Sacramento Valley again tomorrow night.

**Air Quality Outlook: Shasta-Trinity & Six Rivers Complexes**

Site	Saturday August 15, 2015	Sunday August 16, 2015	Monday August 17, 2015	Comments
Crescent City	Moderate	USG	USG	Smoke impact from Oregon fires.
Gasquet	Moderate	USG	Moderate	Smoke impact from Oregon fires.
Happy Camp	Moderate	USG	USG	Smoke impact from Oregon fires.
Etna	Moderate	Moderate	Moderate	Smoke impact from Oregon fires.
Mt. Shasta	Moderate	Moderate	Moderate	Smoke impact from Oregon fires.
Tulelake	Moderate	Moderate	Moderate	Smoke impact from Oregon fires.
Yreka	Good	Unhealthy	Unhealthy	Smoke impact from Oregon fires.
Eureka	Good	Good	Moderate	
Hoopa	Moderate	Moderate	Moderate	
Mad River/Dinsmore	USG	USG	Unhealthy	
Orleans	Moderate	Moderate	Moderate	
Weitchpec	Moderate	Moderate	Moderate	
Willow Creek	USG	USG	Moderate	
Burnt Ranch	Unhealthy	Unhealthy	Unhealthy	
Hayfork	Hazardous	Hazardous	Hazardous	8/15 & 8/16: Varying little throughout
Hyampom	Hazardous	Hazardous	Hazardous	8/15 & 8/16: Heaviest during afternoon
Weaverville	Unhealthy	Very Unhealthy	Hazardous	
Anderson/Redding	Unhealthy	Unhealthy	Unhealthy	

**Disclaimer: Forecast conditions represent air quality levels affected by fine particulates; contribution from ozone and other pollutants is not reflected.** Conditions may change quickly, these projections are based on anticipated weather and fire activity. Sensitive groups including individuals with asthma, lung or heart disease, children, older adults, and pregnant women should take precautions to avoid exposure to smoke. If you feel as though you are having health effects from smoke, see your doctor or health professional as needed. In some cases your eyes are your best tools. If it is smoky outside, you are being impacted. Use caution when driving in or around smoky areas.

AQI Index	Actions to Protect Yourself
Good	None
Moderate	Unusually sensitive people should consider reducing prolonged or heavy outdoor exertion.
Unhealthy for Sensitive Groups - USG	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	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	Everyone should avoid any outdoor exertion; people with respiratory or heart disease, the elderly and children should remain indoors.
Hazardous	The following groups should remain indoors and keep activity levels low: People with heart or lung disease; children and older adults. Everyone else should avoid prolonged or heavy exertion

**Links:**

AirNow - [http://airnow.gov/index.cfm?action=airnow.local\\_state&stateid=5&tab=0](http://airnow.gov/index.cfm?action=airnow.local_state&stateid=5&tab=0)

California Smoke Information Blog - <http://californiasmokeinfo.blogspot.com/>

North Coast Unified Air Quality Management District <http://www.ncuaqmd.org/>

Shasta County Air Pollution Control District - [http://www.co.shasta.ca.us/index/drm\\_index/aq\\_index.aspx](http://www.co.shasta.ca.us/index/drm_index/aq_index.aspx)

Siskiyou County Air Pollution Control District <http://www.co.siskiyou.ca.us/content/agriculture-air-pollution-control-district>

Interagency Real Time Smoke Monitoring - <http://app.airsis.com/usfs/fleet.aspx>

[Wildfire Smoke – A Guide for Public Health Official](#) from California Air Resource Board

[Wildland Fire Personnel Smoke Exposure Guidebook](#) from National Interagency Fire Center

[Smoke: Knowing the Risks video \(14 minutes\)](#) from WFStar