

2014/2015 Air Monitoring Coordination

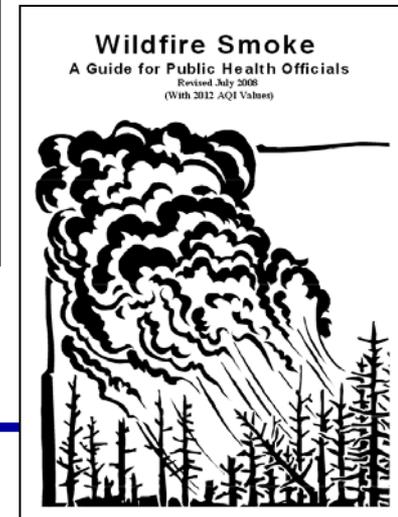
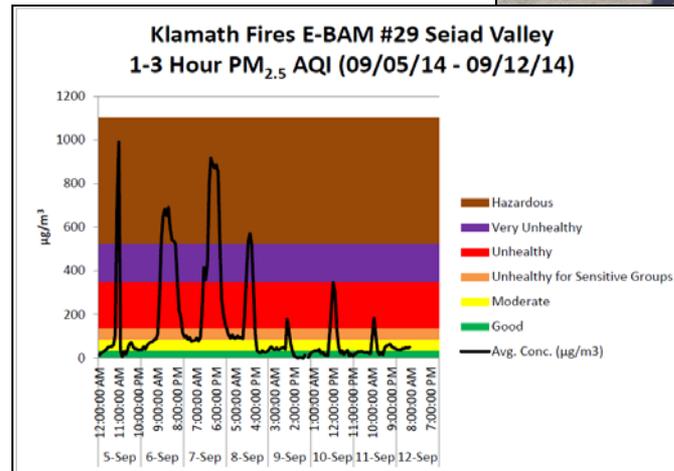


OER Program Overview

- Chemical spill, fire, industrial disruption, natural disasters that exceed local capabilities.
- Community based (non-hot zone) air monitoring and surveillance.
- Air quality assessment incl. modeling/meteorology.
- Support local governments-respond to requests, yet 'lean forward' posture.
- Coordinate interagency response with other air quality partners.
- Emergency Air Monitoring Assessments (Refineries).

ER Smoke Monitoring Program

- Deploy/maintain portable monitor network (PM, Met, CO for 2015)
- Provide hourly PM_{2.5} data (health assessments, reports, summaries)
- Coordinate monitoring activities (Fed and Local)
- Conduct briefings (CalOES, Cal/EPA, ARB Ex Office and Communications)
- Communicate with districts using a proactive approach (Lean Forward)



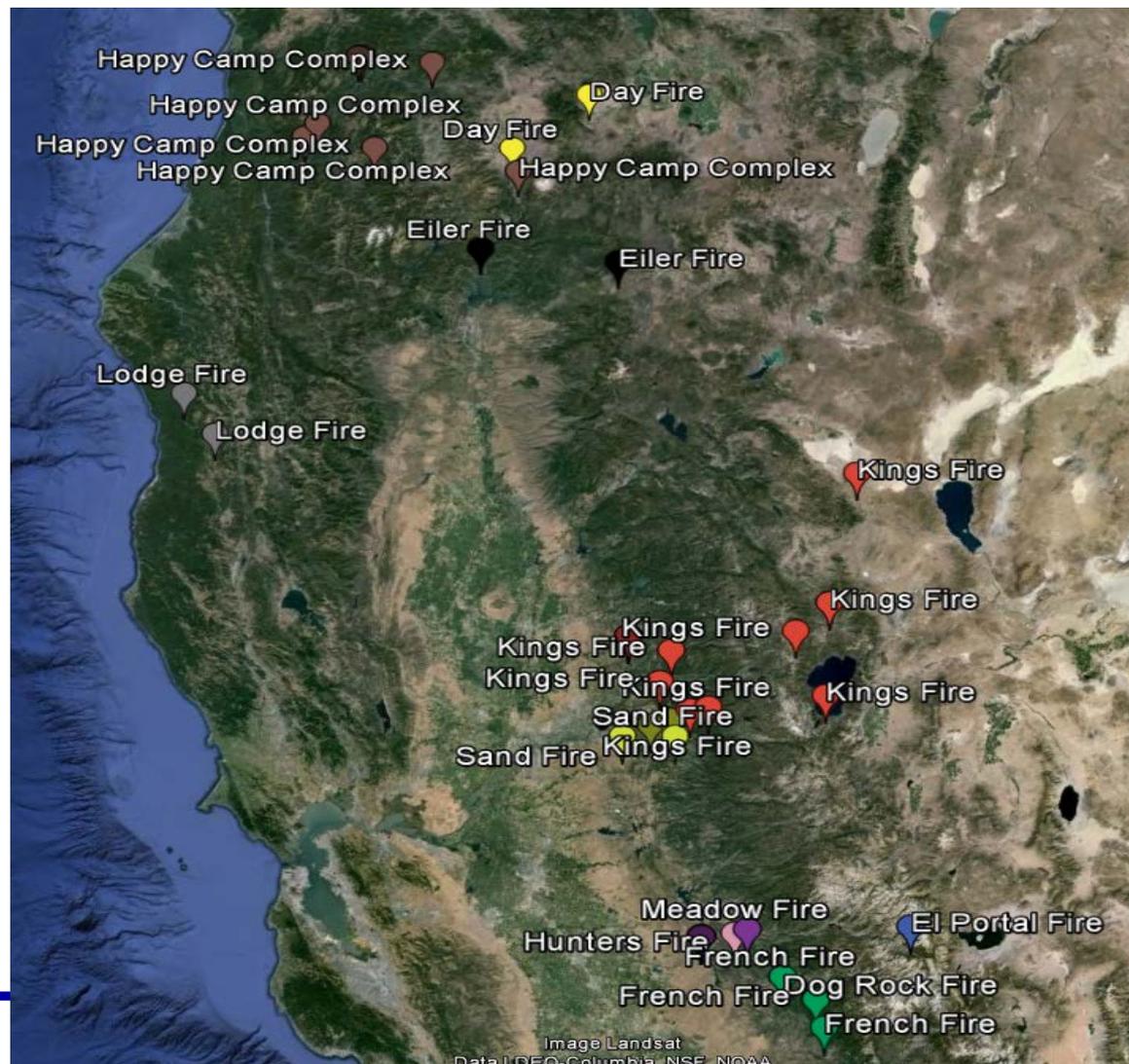
Wildland Fire Portable Monitoring Equipment

- E-BAM (25 units + 8) and 40 radios - Portable PM2.5 monitoring instrument with accessible hourly data via satellite. 3 storage caches- Sacramento, Redding, Mariposa
- MicroDust (4 units) - Self-contained mobile monitor for rapid, short term, real-time PM2.5 monitoring.
- Portable Met Station (4 units) - Self-contained portable RAWS meteorological monitoring stations. (Mesowest data)
- Communication System/Mobile Broadband Modem (2 units) Data telemetry and field communication.
- Mobile Command Center – Self-contained mobile office w/ internet, generator, work space, etc.

2014 Year Monitoring Deployment Map

Deployed :

- May – Nov 2014
- 13 different fires
- 4 regional areas
- 12 counties
- 38 monitoring locations (often same location for different fire).



2014/2015 Improvement Planning

ARB, CARPA, USFS, District, Counties, Private Industry, Others

Arranged 2014 post AAR and 2015 pre fire season workshops to identify what was successful, what could be improved, and prepare for the 2015 season:

- Jan 27th CARPA AAR (identify specific areas for improvement)
- April 7th USFS 2014 ARA AAR (improve response coordination)
- May 13th IASC/CARPA Workshop (prepare for smoke impacts)

2014/2015 Improvements (electronic tools)

- Continue progress on automated data analysis programs (**AirNow Fires & AirFire**)
- Create/improve public messaging resources (SmokeBlog/Twitter)
- Create new tools and redesign CARPA website (In process)
- Creation and use of the 'California Wildfire Smoke Response Coordination' document
- More instrumentation !!



California Smoke Information
This site is a voluntary effort by city, county, state, tribal and/or federal agencies to coordinate and aggregate information for California communities affected by wildfire smoke.

Home Satellite Imagery Mapping, Webcams & Air Quality Info Air Quality Descriptions

BLOG ARCHIVE
Blog Archive ▾

SMOKE INFORMATION
Air Quality Info - AirNow Gov
How to Properly Put on and Take off a Disposable Respirator (N95)
Protect Your Lungs from Wildfire Smoke
CDC Wildfire Smoke and Your Health
Federal Interagency Real-time Smoke Monitoring
Video - Protect Yourself From Wildfire Smoke
Sacramento Region's Ozone Activity Recommendations Chart
Wildfire Smoke: A Guide for Public Health Officials
Oregon Smoke Info Blog
Idaho Smoke Info Blog
Washington Smoke Info Blog
U.S. Wildfire Smoke Blog

FIRE INFORMATION
CAL FIRE Current Incidents
Incidents - Federal Incidents in California

Mapping, Webcams & Air Quality Info
Click on Layers (below on the right) to select different info. You can make this map into a full size by click full map on the bottom.

Published by California Smoke Information - Published and maintained by California Smoke Information - Full map...

1 comment:
Charles E. Dudley Jr. September 21, 2014 at 5:58 PM
Love this blog. Great info as it should be. Keep up the great work. I do not see a contact info link for you though.



CA Smoke Blog @CASmokeBlog · Apr 20
Monday, April 20, 2015 Major wildfires in southern Siberia causing hazy skies in the western US. dlvr.it/9THwLC

TWEETS 96 FOLLOWING 3 FOLLOWERS 42

California Wildfire Smoke Response Coordination Document

- Guide for smoke response coordination in California.
- Compilation of CA best practices and approaches.
- Describes agencies duties and roles.
- Includes examples, templates and contact information.
- Lists recommended health actions.
- Available on the CARPA website front page.



Working Draft

Wildfire Smoke Response Coordination –
Best Practices Being Implemented by Agencies in California



August 2014

Inside the California Wildfire Smoke Response Coordination Document

Purpose and Scope

- Participating Entities and Roles

Coordination Activities for Wildfire Smoke Incidents

- Conference Calls and Briefings
- Requesting Ambient Air Monitoring Assistance
- Monitoring Indoor Air Quality
- Managing Air Monitoring Data
- Public Health Outreach

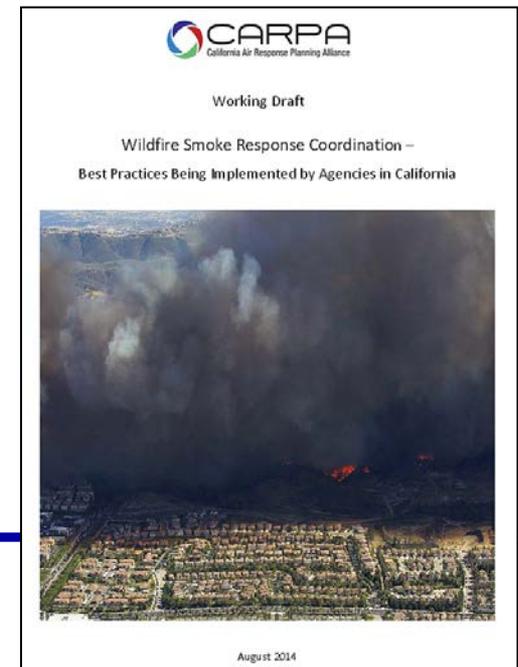
Off-season Preparation Activities

- Incident Command System (ICS) Training
- California Smoke Coordination Steering Committee
- Annual Pre-Wildfire Season Workshop Smoke
- Monitor Maintenance, Calibration, and Certification
- Pre-season Outreach

Resources

- Wildfire Smoke: A Guide for Public Officials (2008)
- Wildfire Related Websites
- California Webcams
- Agency Contact Information
- Procedure for Requesting Assistance
- Air Emergency Response Monitoring Plan Template
- CA Smoke Blog Administrators
- Air Quality Warning Template
- Examples of Wildfire Smoke Public Announcements

This useful guide is only 16 pages long with 7 appendix pages



Smoke intelligence gathering and coordination

- Daily intelligence briefing (email & phone)
 - InciWEB, CALFIRE, USFS, Media, **Twitter**, PFIRS, firetracker.scpr.org
- 1300hrs Smoke Call
 - 12hr to 96hr outlook (regional reports, weather forecasts)
- 1400hrs Monitoring Call (decisions made)
 - Everyone on same call (affected districts, ARA, ARB)
 - Districts needs
 - Coordinate activities (12hr to 96hr)
 - ARA reports/needs
 - Weekend and Resource Staffing (Thurs)
- Weekly Cal/EPA Call (Tuesday @0900)

Webpages and Electronic tools

AirNOW wildfire webpage

- http://airnow.gov/index.cfm?action=topics.smoke_wildfires
- Dynamic map with data overlays: Current PM2.5 AQI (network & EBAM), fire locations, and smoke plumes.

California Smoke blog

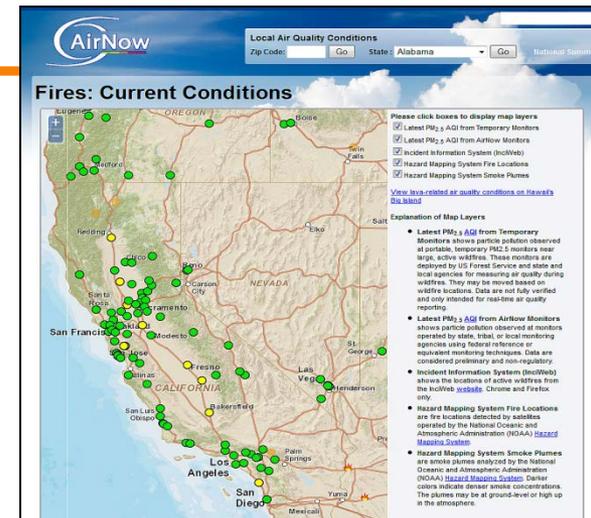
- <http://californiasmokeinfo.blogspot.com/>
- Available for public messaging (multiagency support).

CARPA website

- <http://www.arb.ca.gov/carpa/carpa.htm>
- Directories with guidance documents for specific needs (data, data to message, message to audience).

Office of Emergency Response webpage

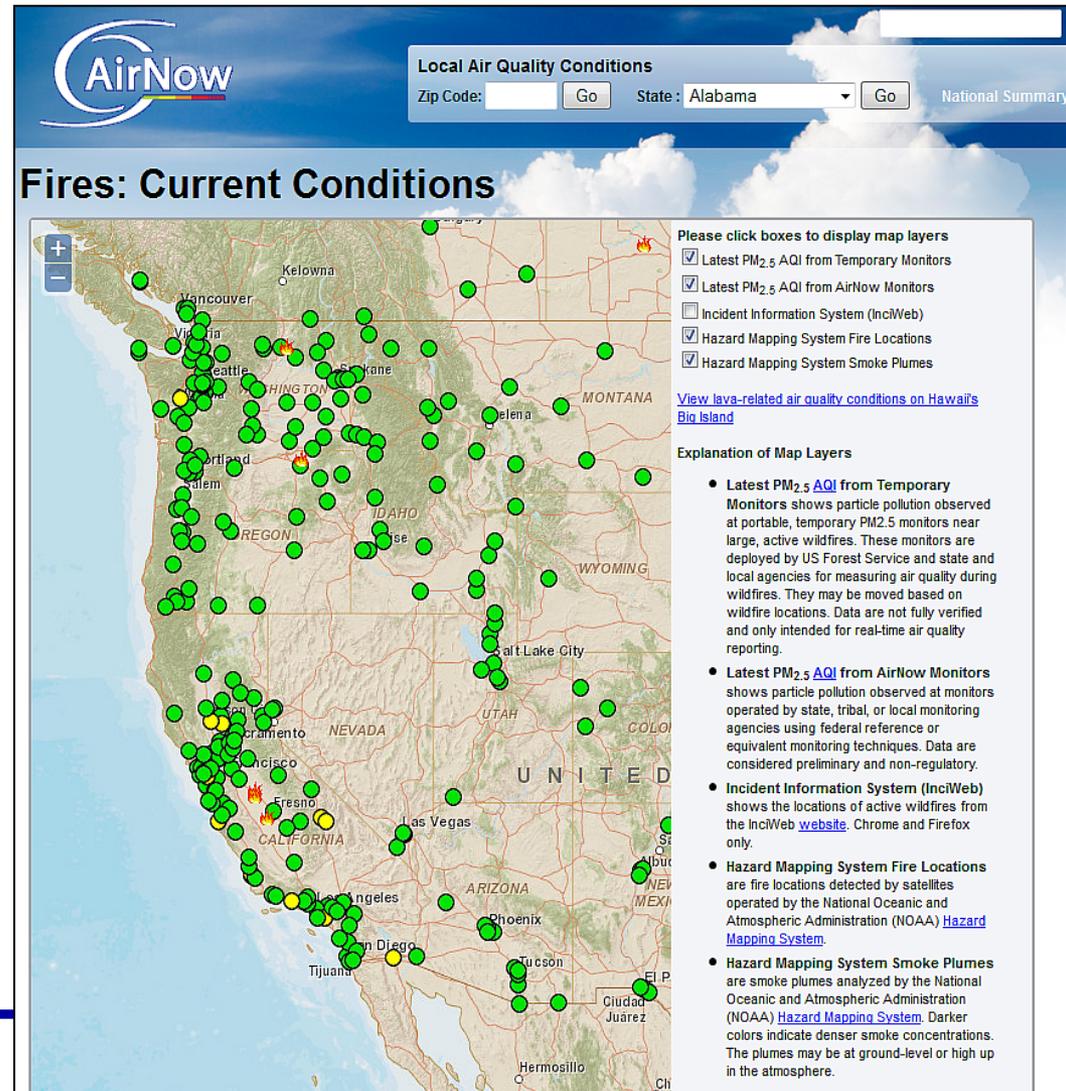
- <http://www.arb.ca.gov/aaqm/erp/erp.htm>
- Technical capabilities, past deployments, request for support.



AirNOW wildfire webpage (public)

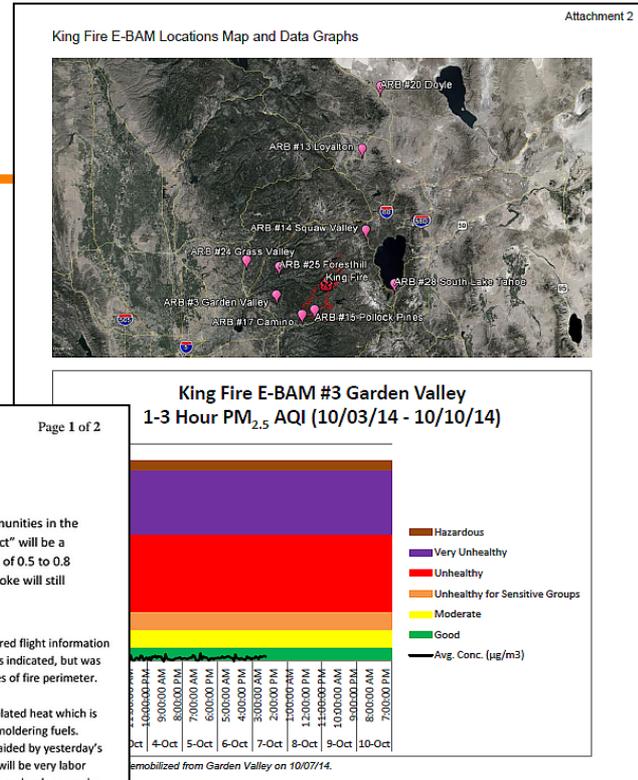
Dynamic map with selectable overlays:

- Nationwide
- Current PM2.5 AQI (Network & EBAM)
- Fire locations
- Smoke plumes
- Incident information
- Scaleable to include new users (AIRSIS)



Smoke Impact Summaries

- ARB/ARA generates daily reports
- ARB generates weekly summaries
- Moving to near automated graphing capability (AirFire)
- Posts to SmokeBlog



Smoke Impact Summary # 11 – King Fire, September 26, 2014

Prepared by T.Johnson, (NPS) and Charles Sams (USFS)
Key Points for Consideration:

1. Last night drainage flows transported smoke overnight into the local nearby communities in the lower mountains and foothills. This diurnal dispersion flow or “bath tub slosh effect” will be a repetitive pattern while heavy interior fuels continue to burn. Yesterday’s rainfall of 0.5 to 0.8 inches assisted crews with mop up and overall fire control, regardless, wildfire smoke will still persist for some time.

Figure1
Reviewing MODIS & infra-red flight information very little intense heat was indicated, but was noted on the W and E sides of fire perimeter.

The red dots represent isolated heat which is reflective of large down smoldering fuels. Suppression efforts were aided by yesterday’s rainfall however, mop up will be very labor intensive to secure fireline and reduce smoke production which is now dominated by smoldering combustion versus flaming combustion.

- 2.
3. This morning’s weather is dominated by clear sky, high humidity and cool temperatures. This afternoon, cloud cover, rainfall and potential thunderstorms and highs in the 50’s will continue to aid firefighters to meet suppression objectives and prevent fire spread. There is no expectation of fire growth outside of perimeter lines today, as fire behavior is dominated by smoldering combustion. **These weather conditions are expected through the weekend.**
4. Yesterday’s fire growth was minimal and was interior to control lines. Total acreage burned to date is 97,099 with 68% containment.
5. The Blue-Sky dispersion model runs estimates 2000 acres of interior smoldering combustion.
6. Light amounts of smoke were detected in fire camp this morning as a result of down drainage overnight smoke transport. The trend for fewer smoke impacts to firefighters in camp continues in a positive direction.

Foresthill_ARB_09r25

2014-09-22 2014-09-23 2014-09-24 2014-09-25 2014-09-26

Figure 1 Blue-Sky Smoke model projection for September 26th @ 2:01pm. Yesterday’s rains greatly abated Fire spread and the production of smoke. Overnight, smoke remained in the drainages, slowly exiting, and moving to the E in the afternoon.

More Information

ARB/Office of Emergency Response

Charles Pearson
cpearson@arb.ca.gov