## Action Item from 2017 Annual WRAP Workplan - Fire and Smoke Workgroup

#### Action Item

X. Exceptional Events

c. Identify key data to collect for exceptional event demonstrations

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| Category | Key Data | Source |
| **Other** | Photographic evidence | Local sources, media reports |
|  | News reports | Internet, Facebook, Twitter |
|  | Air Resource Advisors data and reports | <https://wildlandfiresmoke.net/> |
| **Model** | Naval Aerosol Analysis and Prediction System surface smoke concentrations | <https://www.nrlmry.navy.mil/aerosol/> |
|  | HYSPLIT | <http://ready.arl.noaa.gov/HYSPLIT.php> |
|  | Smoke trajectory maps | <http://www.airnowtech.org/> |
|  | Bluesky smoke forecasts | <https://www.airfire.org/data/bluesky-daily/> |
| **Monitor** | Fire biomarkers (e.g. elemental/total carbon, levoglucosan in PM, K) | Speciated monitor data from local sources, IMPROVE (<http://views.cira.colostate.edu/fed/DataWizard/Default.aspx>) |
|  | Hourly monitoring data (PM, O3, CO, NOx) | Local sources, AQS (<https://aqs.epa.gov/aqsweb/documents/data_mart_welcome.html>), AirData (<https://www.epa.gov/outdoor-air-quality-data>) |
|  | AQI | <https://www.airnow.gov/> |
|  | Maps, time series, reports | [https://tools.airfire.org/monitoring/v3/#/](https://tools.airfire.org/monitoring/v3/%23/) |
|  | USFS emergency monitors | <https://wrcc.dri.edu/cgi-bin/smoke.pl>, <https://app.airsis.com/usfs/> |
| **Satellite** | Calipso aerosol analysis | <https://eosweb.larc.nasa.gov/project/calipso/aerosol_layer_table> |
|  | Aerosol optical depth (AOD) | <https://www.star.nesdis.noaa.gov/smcd/spb/aq/index.php>, <http://www.ssd.noaa.gov/PS/FIRE/GASP/gasp-west.html>, <https://worldview.earthdata.nasa.gov/> |
|  | Imagery | <https://worldview.earthdata.nasa.gov/>, <http://ge.ssec.wisc.edu/modis-today/index.php>, <https://www.star.nesdis.noaa.gov/smcd/spb/aq/index.php> |
|  | HMS smoke polygons | <http://satepsanone.nesdis.noaa.gov/FIRE/fire.html> |
|  | Enhanced fire and smoke products | <https://www.star.nesdis.noaa.gov/smcd/spb/aq/eidea/> |
| **Meteorology** | Met observations | <http://mesowest.utah.edu/> |
|  | Surface winds, upper air data (e.g. 500 mb maps) | <http://weather.unisys.com/index.php>, <http://www.nws.noaa.gov/outlook_tab.php> |
| **Fire** | Incident reports | <https://inciweb.nwcg.gov/> |
|  | HMS fire detects | <https://fsapps.nwcg.gov/afm/> |
|  | Wildfire, prescribed fire, and agricultural fire locations | <http://www.wrapfets.org/> |
|  | Fire emissions | <https://playground.airfire.org/login.php?next=/index.php>, <http://www.wrapfets.org/> |