

Exceptional Events Resources

WRAP Fire and Smoke Workgroup - Exceptional Events Support Group - Data resources list.

Updated 10/25/2021

Resource Category	Data	Sources
Monitoring	Chemically speciated PM2.5	From IMPROVE https://views.cira.colostate.edu/fed/QueryWizard/Default.aspx From EPA AQS https://www.epa.gov/aqs
	Monitoring data (PM, O3, CO, NOx)	From EPA AQS https://www.epa.gov/aqs From Airnowtech https://www.airnowtech.org/data/ https://airnowtech.org/navigator/ AirNow Fire and Smoke Map https://fire.airnow.gov/ PurpleAir low-cost sensor data https://www2.purpleair.com/
	AQI	https://www.airnow.gov/ https://www.epa.gov/outdoor-air-quality-data/air-data-multiyear-tile-plot
	Maps, time series, reports	From USFS https://portal.airfire.org/
	USFS emergency monitors	https://wrcc.dri.edu/cgi-bin/smoke.pl , https://app.airsis.com/usfs/
	Meteorological observations	http://mesowest.utah.edu/ https://synopticdata.com/
	NOAA weather and hazard maps	https://www.wpc.ncep.noaa.gov/dailywxmap/index.html https://www.wrh.noaa.gov/map/
Modeling	Naval Aerosol Analysis and Prediction System surface smoke concentrations	https://www.nrlmry.navy.mil/aerosol/
	NOAA Air Resources Lab HYSPLIT trajectories and dispersion	http://ready.arl.noaa.gov/HYSPLIT.php
	Hysplit Smoke trajectory maps	https://www.airnowtech.org/navigator/
	Bluesky smoke forecasts	https://tools.airfire.org/websky
	Canadian Smartfire	https://firesmoke.ca/smartfire/

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	NOAA NCEP North American Regional Reanalysis Meteorological Data	https://psl.noaa.gov/data/gridded/data.narr.html
	NOAA High-Resolution Rapid Refresh (HRRR) Smoke products	https://rapidrefresh.noaa.gov/hrrr/HRRRsmoke/ https://hwp-viz.gsd.esrl.noaa.gov/smoke/index.html
	FINN - daily fire emissions product	https://www2.acom.ucar.edu/modeling/finn-fire-inventory-ncar
Satellite	Calipso aerosol analysis	https://eosweb.larc.nasa.gov/project/CALIPSO
	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/
	Absorbing Aerosol Index	https://www.temis.nl/airpollution/absaai/
	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 https://www.star.nesdis.noaa.gov/smcd/spb/aq/AerosolWatch/ https://www.star.nesdis.noaa.gov/GOES/index.php https://www.star.nesdis.noaa.gov/jpss/mapper/ https://www.ospo.noaa.gov/Products/land/hms.html#events
	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/
	NASA Fire Information for Resource Management System (FIRMS)	https://earthdata.nasa.gov/earth-observation-data/near-real-time/firms
Fire	Incident reports	https://inciweb.nwcg.gov/
	HMS fire detects	https://fsapps.nwcg.gov/afm/
	Fire emissions	https://playground.airfire.org/login.php?next=/index.php
	Interagency Wildland Fire Air Quality Response Program: data, tools, and reports	https://wildlandfiresmoke.net/ https://portal.airfire.org/
	Fire/smoke cameras	http://www.alertwildfire.org/
	Burn area shapefiles	https://fsapps.nwcg.gov/ravg/data-access
	California Fire/Smoke Information	https://www.fire.ca.gov/incidents/ http://californiasmokeinfo.blogspot.com/
	Canadian Wildland Fire Information System	https://cwfis.cfs.nrcan.gc.ca/home
	Global Fire information	https://www.globalfiredata.org/ https://gwis.jrc.ec.europa.eu/

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	Incident Management Situation Report (IMSR) Archives	https://www.predictiveservices.nifc.gov/intelligence/archive.htm
	Wildfire perimeter data	https://www.usgs.gov/faqs/where-can-i-find-wildfire-perimeter-data
	NOAA Smoke text products	https://www.ssd.noaa.gov/PS/FIRE/smoke.html
	Geographic Area Coordination Centers (A governmental resource to view local fire office dispatch reports)	https://gacc.nifc.gov
	Fire Weather Avalanche (A commercial resource with a comprehensive map showing fires)	https://fireweatheravalanche.org/fire/
	NASA/USFS Fire Information for Resource Management System US/Canada	https://firms.modaps.eosdis.nasa.gov/usfs/map/
Other	EPA Exceptional Events web page	https://www.epa.gov/air-quality-analysis/treatment-air-quality-data-influenced-exceptional-events-homepage-exceptional
	Photographic evidence	Local sources, media reports
	News reports	Internet, Facebook, Twitter
	National Weather Service Alerts	https://www.weather.gov/otx/
	Shapefile for forest boundaries.	https://data.fs.usda.gov/geodata/edw/datasets.php?dsetCategory=boundaries
	Webcams	http://www.alertwildfire.org/index.html?v=fd40742
	Emergency Management Agencies	Local emergency management notices (example: https://www.spokanecounty.org/4579/Emergency-Management)
Additional Local Sources	Local weather blogs, Municipal and/or school district alerts/information	