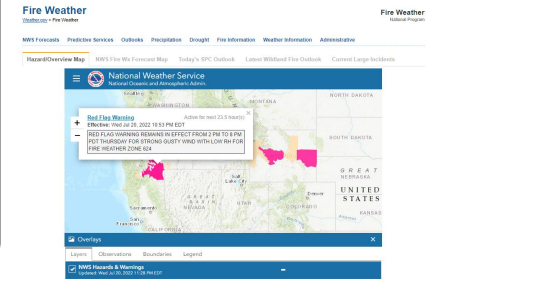
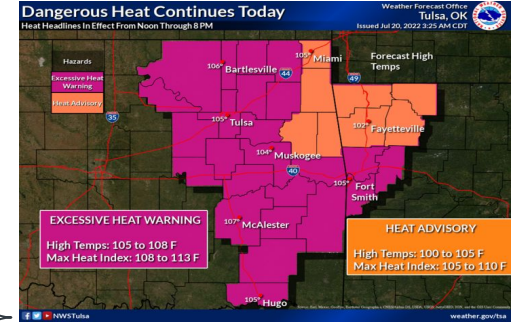
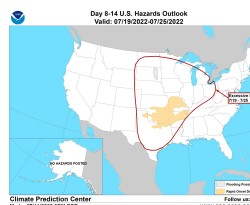
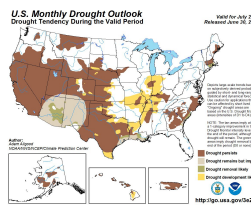
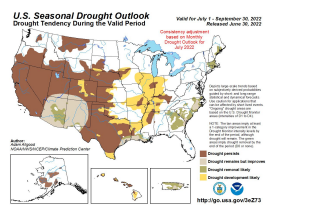
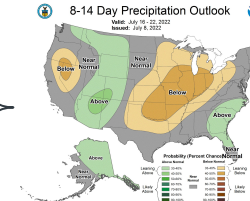
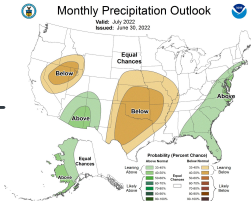
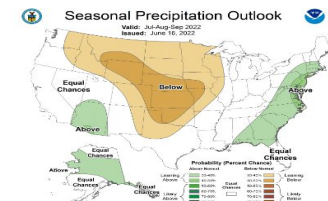
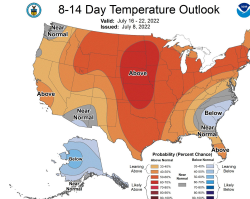
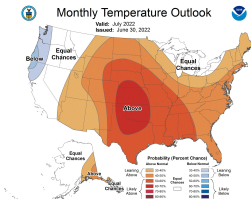
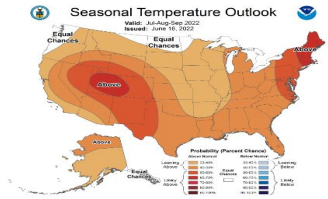


# National Weather Service (NWS) - Fire Weather

# NWS Seamless Suite of Excessive Heat and Fire Weather Predictions from Climate to Weather Timescales



CPC Seasonal Outlooks

CPC Monthly Outlooks

CPC Week- Two Temp, Precip, and Hazard Outlooks

Fire Weather Watches and Red Flag Warnings



# Predictive Services Partnerships

Using NOAA CPC/long range forecast information, the Fire Agencies' Predictive Services Program provides monthly to seasonal Fire Potential Outlooks - geared to toward resource allocation.



## OUTLOOKS

### National Significant Wildland Fire Potential Outlook

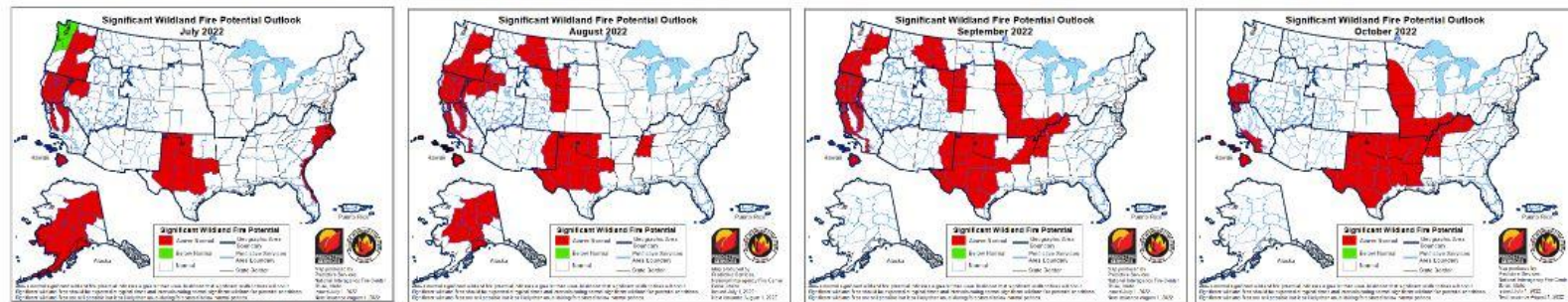
The outlook identifies areas by month for the next four months with above, below, and near normal significant fire potential.

The main objectives of the National Significant Wildland Fire Potential Outlooks are to improve information available to fire management decision makers. These assessments are designed to inform decision makers for proactive wildland fire management, thus better protecting lives and property, reducing firefighting costs and improving firefighting efficiency.

The following maps represent the cumulative forecasts of the eleven Geographic Area Predictive Services Units and the National Predictive Services Unit.

The entire text document can be found at the following link, [National Wildland Significant Fire Potential Outlook](#).

This product is updated on the first of each month or first work day of each month.



\*Click on any graphic to access an enlarged version of the image



# Drought is Important, but does not = Fire

Drought stresses fuels and creates a burning “stage”, but drought does not directly “predict” that there will be fires. Drought impacts planning, can lead to more extreme fire behavior, and impacts post-fire recovery.

## Wildfire Conditions

[View Interactive Map](#)

[Active Wildfires](#) [One-Day Fire Outlook](#) [AirNow Air Quality Index](#)

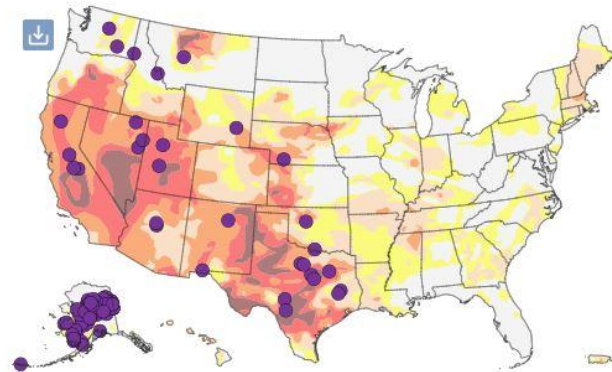
This map shows active large wildfires from the National Interagency Fire Center (NIFC), alongside current drought conditions from the U.S. Drought Monitor. View the latest [NIFC situation report](#) for more information.

[Learn more.](#)

### Active Large Wildfires

Active Fire

### U.S. Drought Monitor



Source(s): National Interagency Fire Center, U.S. Drought Monitor

Last Updated - 07/20/22

**104**

currently active large wildfires

**3,095,265**

area (in acres) affected by active large

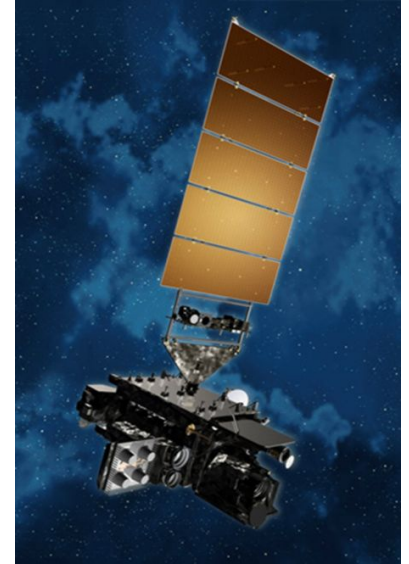
**402,410**

people within 10 miles of an active large



# NWS Fire Weather Focus is Operational

- NWS provides one, two and 3-8 Day Outlooks, 24/7
- Issues daily fire weather forecasts
- Is the authoritative source for Spot Forecasts, Fire weather watches and Red Flag Warnings.
- Provides direct briefings and consultations to partners
- Issues National Fire Danger Rating System Forecasts.
- Dispatches Incident Meteorologists (IMETs) to fires.



**We leverage Model Data and NESDIS satellite information for our forecast suite.**

# Where to Find NWS Information

## Fire Weather

[Weather.gov](#) > Fire Weather

[NWS Forecasts](#) [Predictive Services](#) [Outlooks](#) [Precipitation](#) [Drought](#) [Fire Information](#)

[Hazard/Overview Map](#)

[NWS Fire Wx Forecast Map](#)

[Today's SPC Outlook](#)

[Lates](#)



[www.weather.gov/fire](http://www.weather.gov/fire)



[spc.noaa.gov/products/fire\\_wx](http://spc.noaa.gov/products/fire_wx)

# Where to Find NWS Information

\*\*\* EXPERIMENTAL \*\*\*

Search Layers, Folders, and Bookmarks  Geographic Search [Add Map Data](#) [Login](#)

Layers [Legend](#) [Query Tools](#) [Zoom](#) [Download](#) [Print](#)

### Warnings

Tsunami Warning	
Tornado Warning	
Tornado Warning	
Extreme Wind Warning	
Severe Thunderstorm Warning	
Severe Thunderstorm Warning	
Flash Flood Warning	
Flash Flood Warning	
Shelter In Place Warning	
Civil Danger Warning	
Nuclear Power Plant Warning	
Radiological Hazard Warning	
Hazardous Materials Warning	
Fire Warning	
Law Enforcement Warning	
Storm Surge Warning	
Hurricane Force Wind Warning	

NWS GIS Viewer

**NWS Pocatello** 27K Tweets [Follow](#)

**NWS Pocatello** @NWSPocatello · 2h  
Wildfires in Central Idaho continue to burn and expand with the #MooseFire expanding by over 4000 acres yesterday. Stronger winds move in tomorrow with a Fire Weather Watch in effect for Friday as wind gusts reach in excess of 30 to 40 mph. #idwx #mtwx

Fire & Smoke Map - fire.airnow.gov

\*Fire is burning on both sides of the River Road (#030). Extreme fire belt with uphill runs, short crown run fire.

Social Media (various sources)



# Where to Find NWS Information

NWS Forecast Office Pocatello, ID

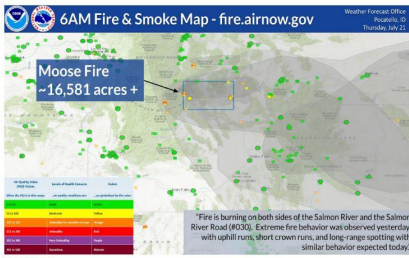
[Weather.gov - Pocatello, ID](#)

Pocatello, ID

Weather Forecast Office

[Current Hazards](#) [Current Conditions](#) [Radar](#) [Forecasts](#) [Rivers and Lakes](#) [Climate and Past Weather](#) [Local Programs](#)

Moose Fire Smoke Hot & Dry Thursday

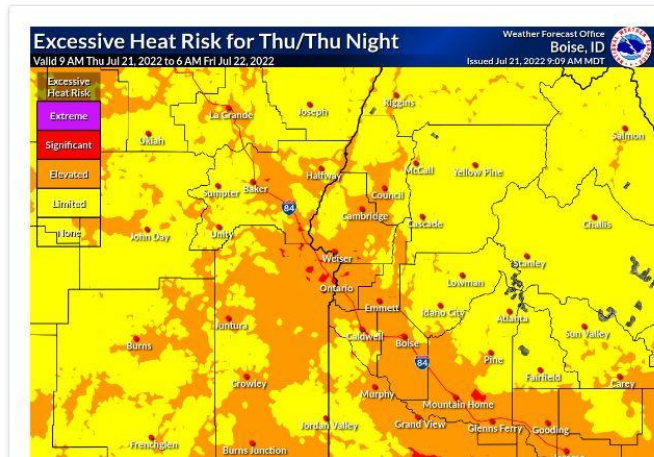


**NATIONAL WEATHER SERVICE**  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

## Experimental Graphical Hazardous Weather Outlook

Weather Forecast Office Boise, ID

Updated: July 21st 2022, 9:08:57



### 24 Hr Hazard Risks

	Today	Fri	Sat	Sun	Mon	Tue	Wed
Severe Thunderstorm	Green	Green	Green	Green	Green	Green	Green
Thunderstorm Wind	Green	Green					
Hail	Green	Green					
Lightning	Green	Green	Green	Green	Green	Green	Green
Excessive Rainfall	Green	Green	Green				
Excessive Heat	Red	Orange	Orange	Orange	Orange	Red	Red
Wind	Yellow	Green	Green	Green	Green	Green	Green
Fire Weather	Yellow	Yellow	Yellow	Green	Yellow	Yellow	Green

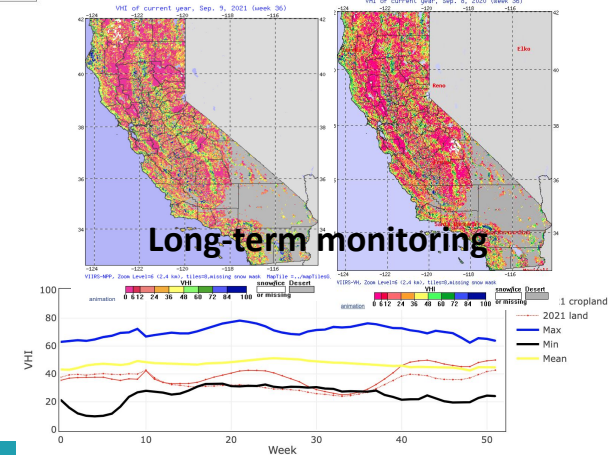
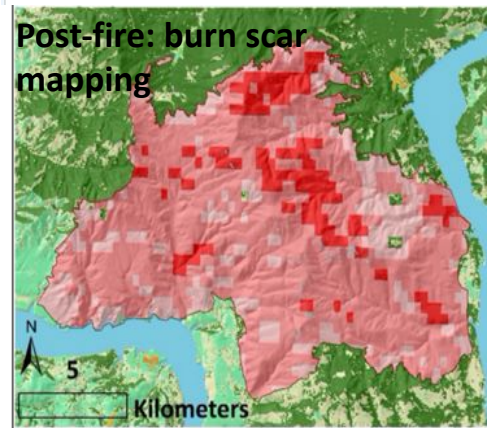
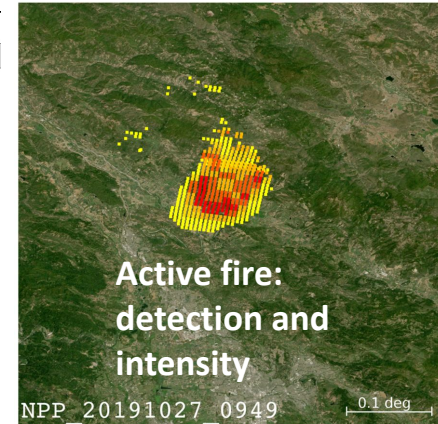
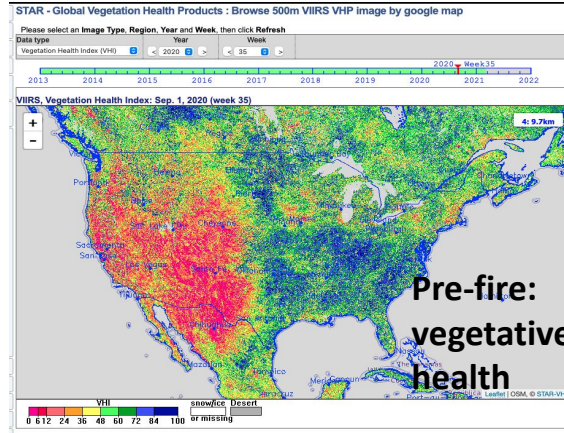
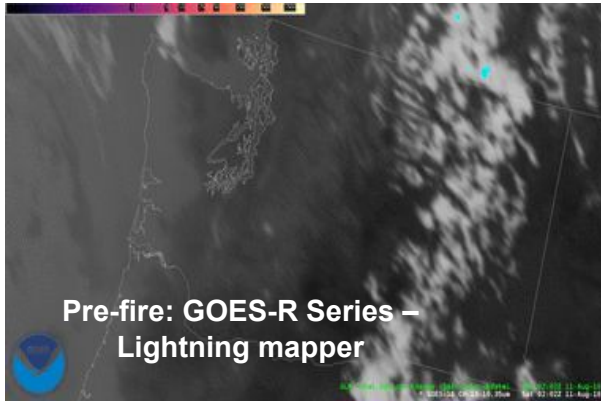
NWS Weather Graphics,  
Stories on NWS Websites

Graphical Hazard Weather Outlook





# NOAA Satellites for Fire Information



# Fire Information Needs of the Insurance Industry

- What Fire Environment products or information are you looking for that we have NOT presented?
- Are there any research questions that would help the insurance industry better incorporate the drought context?
- How can insurance products be developed and utilized to better build resilience to fire? Do you have incentives for actions to minimize fire risk?
- Would you be interested in having a smaller follow up discussion to inform the NWS Fire Program investments in support of the Insurance Industry?

# Backup slides on Satellite Obs



# NESDIS Operational Products for pre- and post-fire assessment

- Vegetation Health / Drought / Fire Risk (16 km, 4km, 1km)

<https://www.star.nesdis.noaa.gov/smcd/emb/vci/VH/index.php>

- Evapotranspiration (2km)

[https://www.star.nesdis.noaa.gov/smcd/emb/droughtMon/products\\_droughtMon.php](https://www.star.nesdis.noaa.gov/smcd/emb/droughtMon/products_droughtMon.php)

- Soil Moisture

- NOAA Soil Moisture Products System (SMOPS; 0.25 x 0.25 degree grid)

- near-real-time: <https://www.ospo.noaa.gov/Products/land/smops/>
- archive: NOAA CLASS - Soil Moisture Operational Product System (SMOPS)

<https://www.avl.class.noaa.gov/saa/products/welcome>

- JPSS Land Environmental Data Records

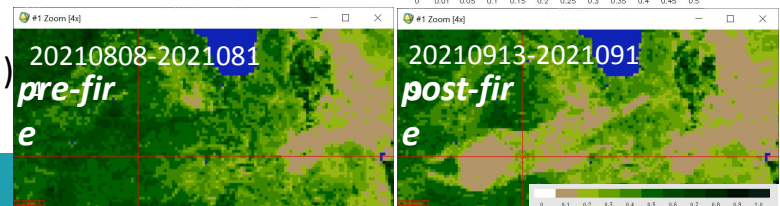
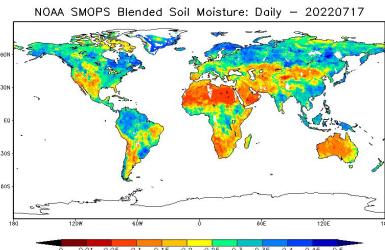
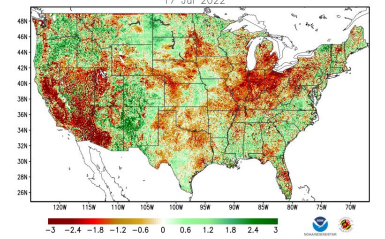
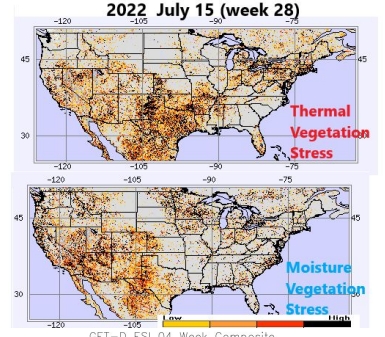
- Annual Land Cover / Surface Type (1km)

<https://www.ncei.noaa.gov/metadata/geoportal/rest/metadata/item/gov.noaa.ncdc:C01472/html>

- Vegetation Indices, Land Surface Temperature (1km, 4km)

- NOAA CLASS - JPSS VIIRS Products (Non-Granule)(JPSS\_NGRN)

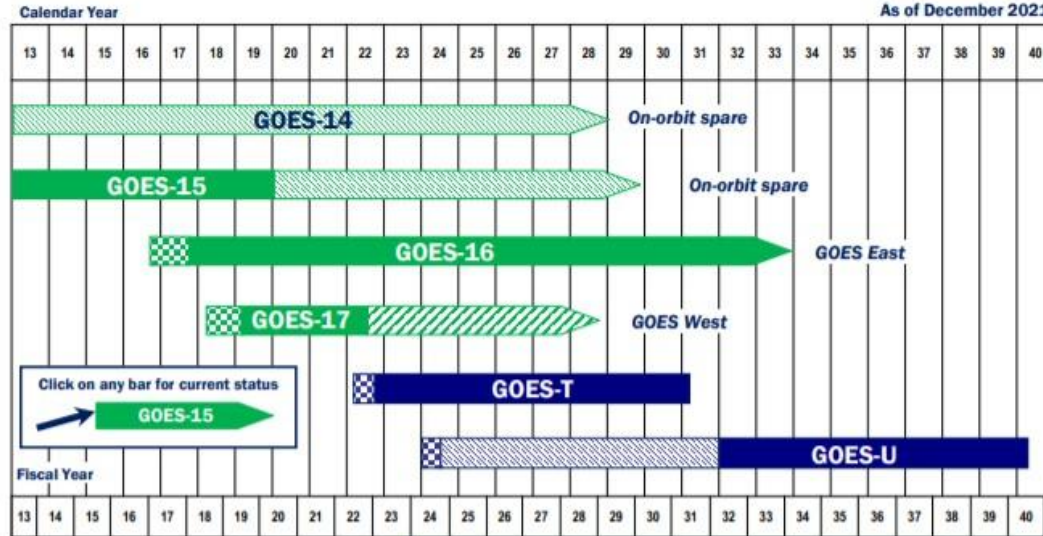
<https://www.avl.class.noaa.gov/saa/products/welcome>



# Continuity and Improvement in GEO Observations



## NOAA Geostationary Satellite Programs Continuity of Weather Observations



VOLZ.STEPHEN.MIC Digitally signed by VOLZ.STEPHEN.MICHAEL.1504223  
 Approved: HAEI.1504223694  
 Assistant Administrator for Satellite and Information Services

	In orbit, operational		Planned in-orbit Storage
	In orbit, storage		Planned in-orbit Checkout
	In orbit, active storage		Planned Mission Life
	In orbit, checkout		
	Reliability analysis-based extended weather observation life estimate (60% confidence) for satellites on orbit for a minimum of one year – Most recent analysis: 1 August 2021		

The GOES-R series will lose on-orbit backup capacity by ~2030. Replacement observations are needed by that time to maintain system performance and continuity, however, ... Legacy system (Imagery & lightning detection) will not meet increased User and national mission needs.

