

Wildfire and Response

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Texas A&M Forest Service



The agency mission is centered around 3 tenets: *conserve*, *protect* and *lead*. Created in 1915, Texas A&M Forest Service is the state forestry agency and lead wildfire response organization for the state of Texas.

• Texas A&M Forest Service is charged with managing the state's forested lands and ensuring they remain productive and healthy while also protecting Texans, their property and the natural resources we all enjoy from wildfire and other disasters.

CONSERVE.

FORESTS and NATURAL RESOURCES

PROTECT.

LIVES, PROPERTY and NATURAL RESOURCES

LEAD.

THROUGH SERVICE

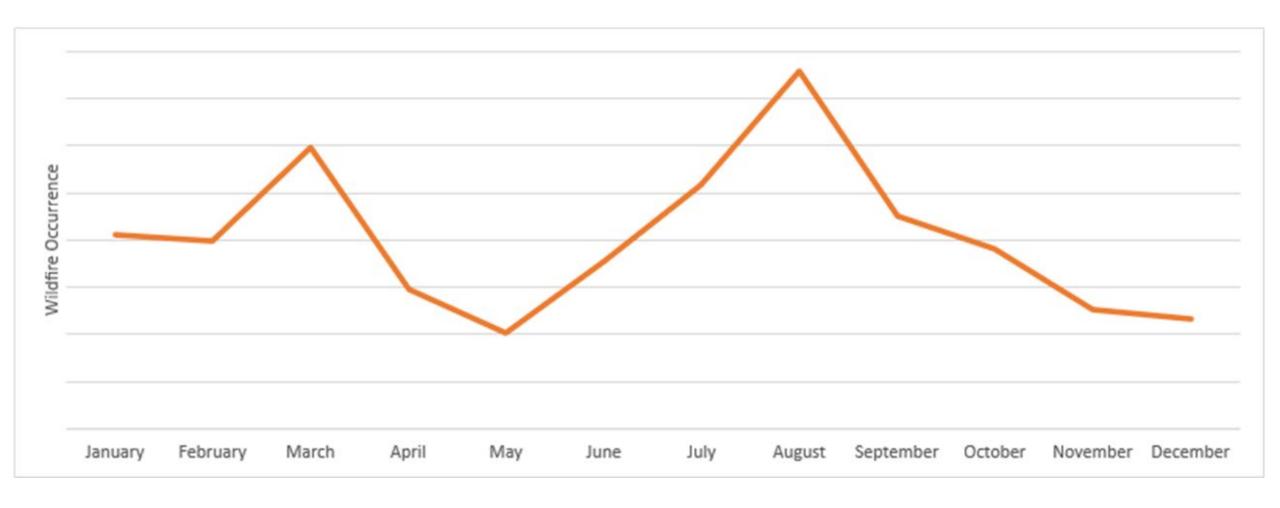
and PARTNERSHIPS



Fire Environment

Texas Wildfire Seasonal Trends



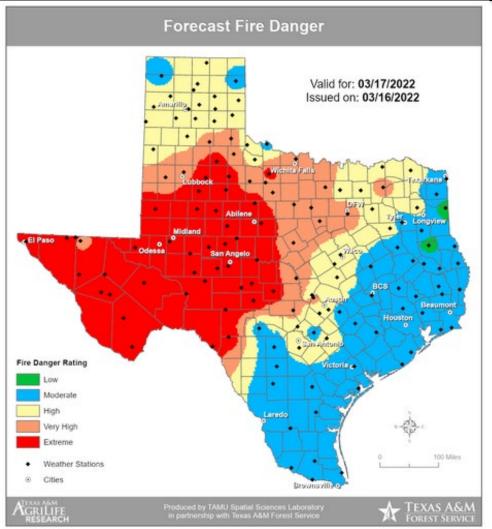




Formed after the 1998 Fire Season to identify areas across Texas where there is an enhanced risk for wildfire occurrence. Support decision making on where firefighters and resources should be strategically positioned....Reactive to Proactive

Analyze current and forecast vegetation/fuel moistures, weather conditions, and wildfire occurrence across the state to determine and communicate fire potential and the type of fire resources may encounter. Wildfire potential changes daily...no single product or metric that can paint the complete picture of fire potential.

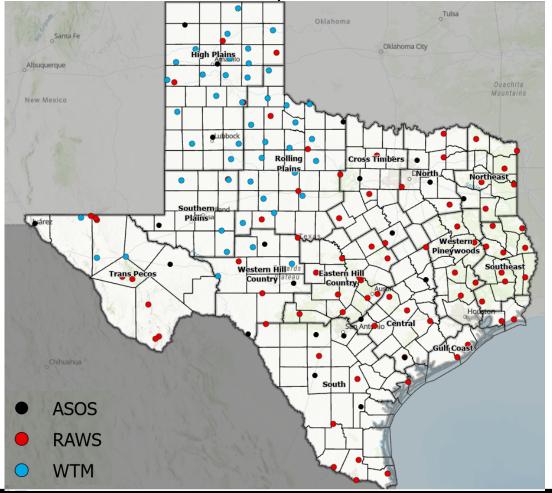
Predictive Services Products range from daily fire danger/fuel moisture maps (automated), weekly fire potential outlooks, seasonal outlook.





Texas Fire Weather Station Network: 151 Stations Total (81 RAWS, 24 ASOS,







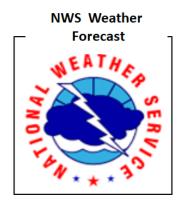
Fire Weather Data Collection flows into the National Fire Danger Rating System Key Partnership with 13 National Weather Service offices

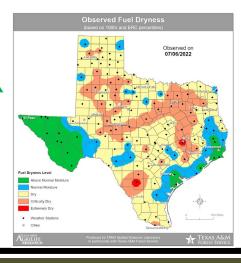




Daily Weather Obs.

National Fire Danger Rating System Processor

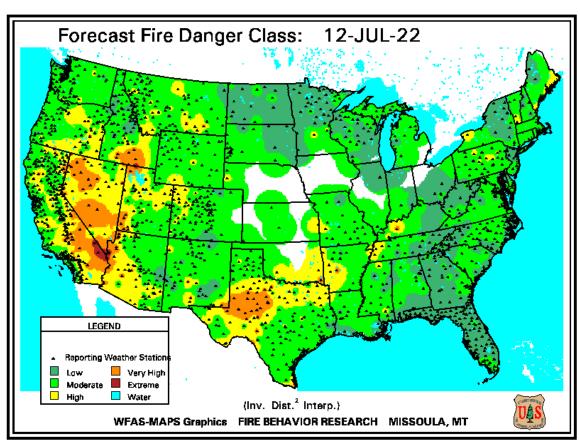


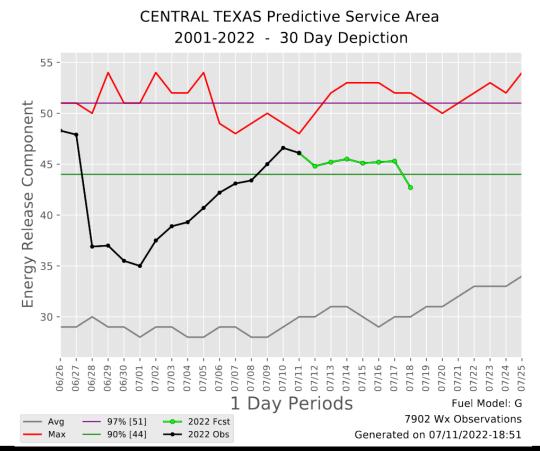




National Fire Danger Rating System

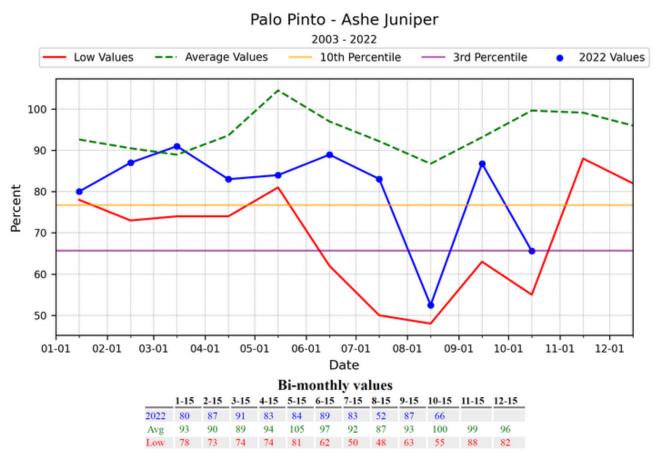
Science based system using weather and modeled fuel moisture data to produce observed and forecast fire danger outputs







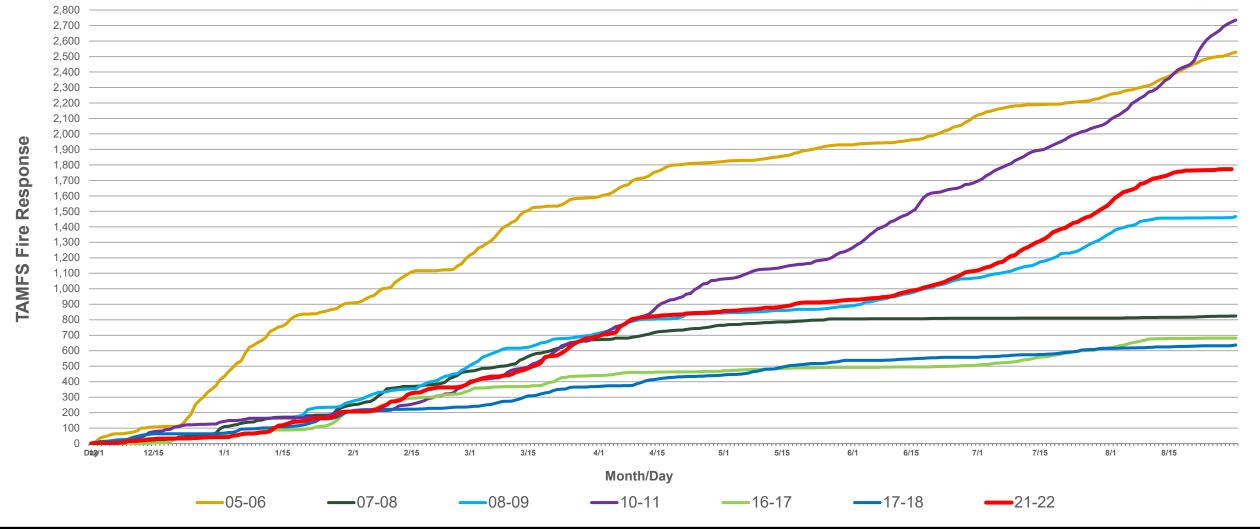
Statewide Live Fuel Sampling of High-Risk Fuel Species (60 Sampling Sites)





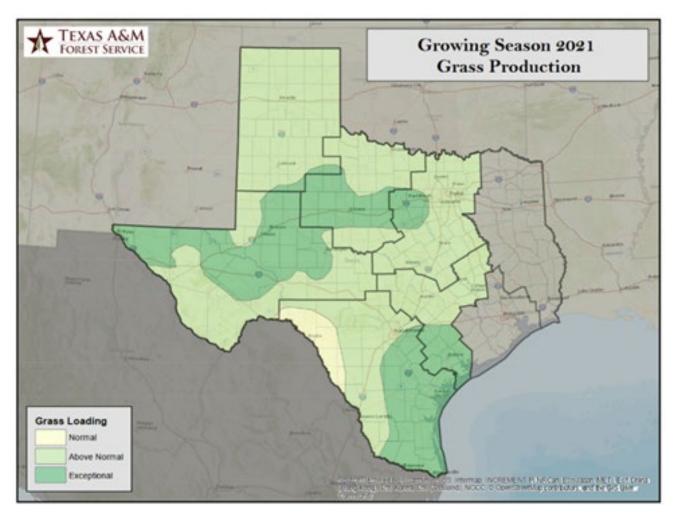
December 1st-September 30th Historical Daily TAMFS Fire Response





2021-2022 Fire Season Set-UP

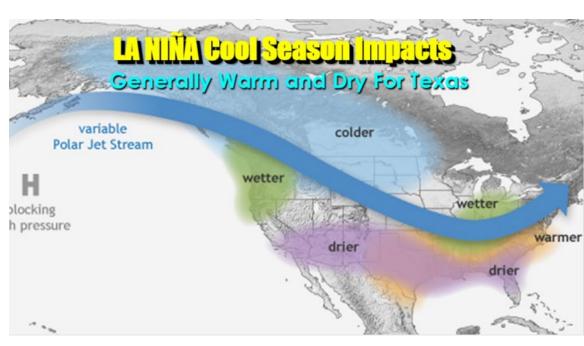




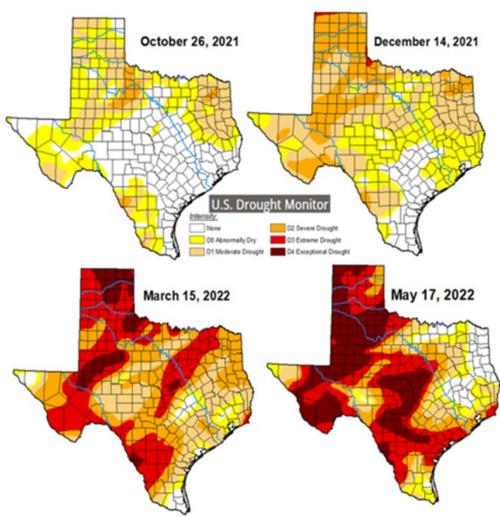


2021-2022 Fire Season Set-UP





La Nina Advisory issued by Climate Prediction Center Fall of 2021



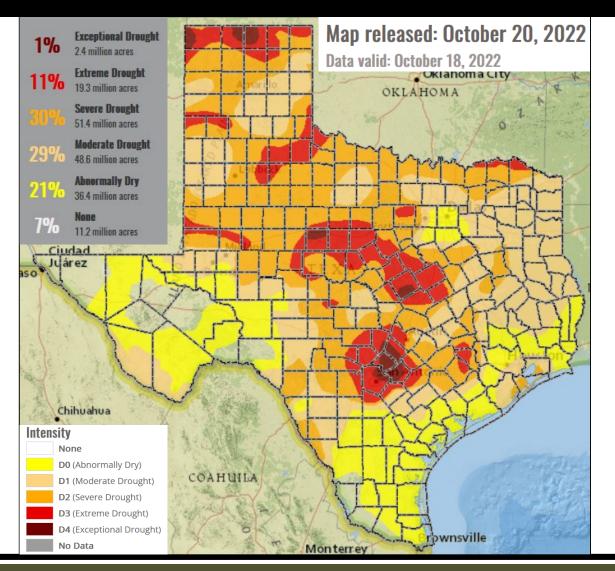
2021-2022 Fire Season Impacts

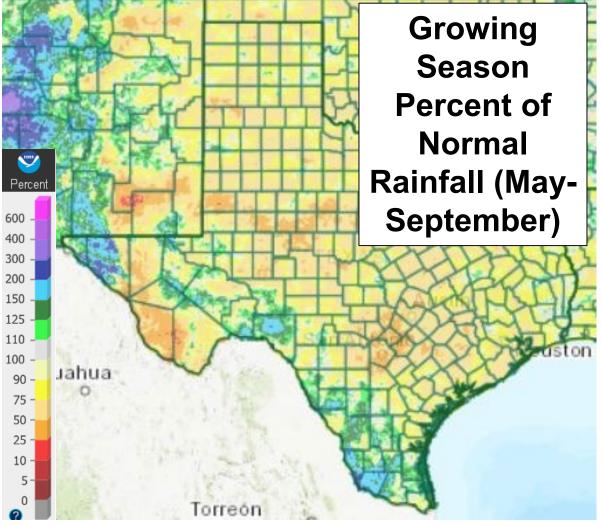




Current Conditions and Winter 2023 Outlook

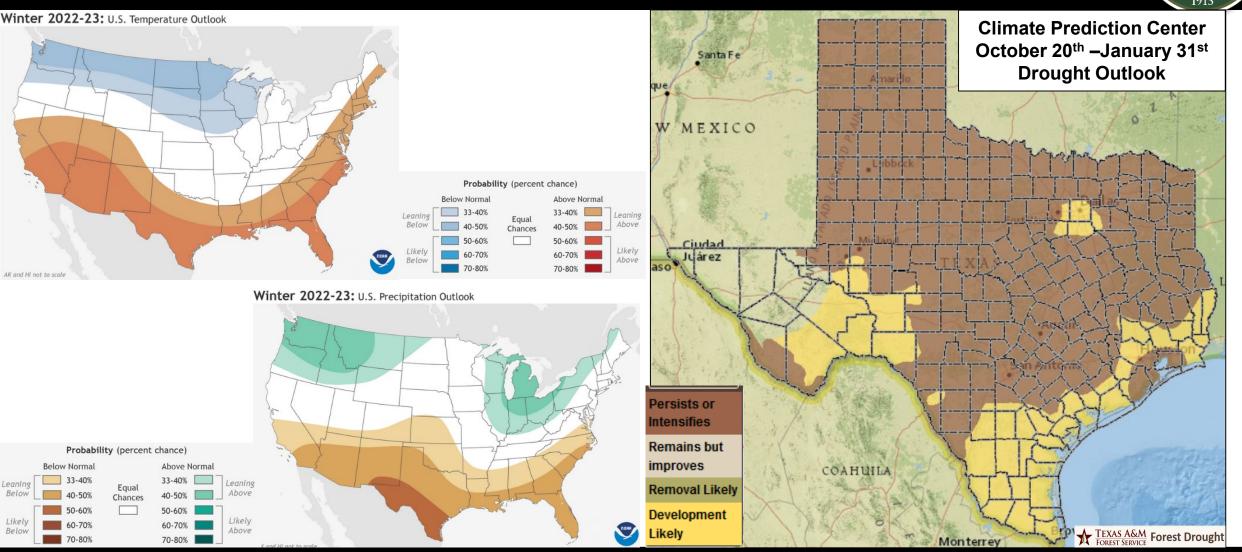






Current Conditions and Winter 2023 Outlook





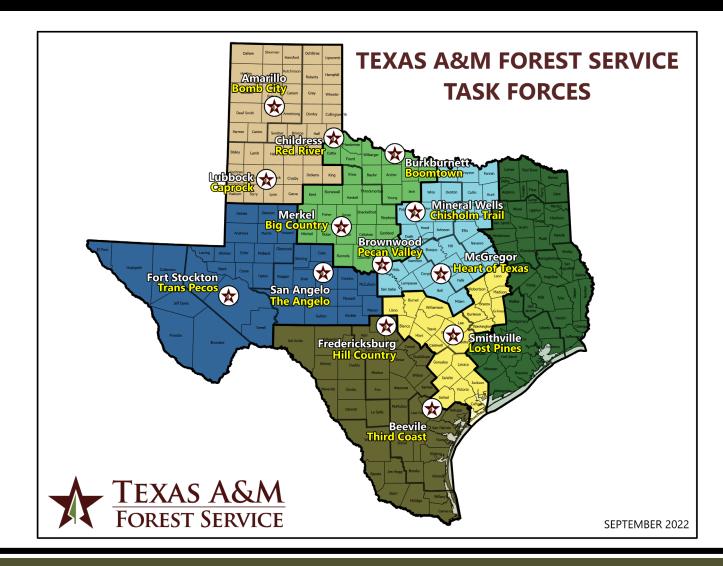


Incident Response



Incident Response





Tiered Approach to Wildfire Response



Local fire departments are first responders

Most wildfires are suppressed by local response
When a wildfire becomes complex and
exceeds local capabilities, Texas A&M
Forest Service is requested to respond

In 2022, the agency responded to 18.5% of the wildfires but for 86.5% of the total acres burned



Tiered Approach to Wildfire Response



As the complexity of statewide wildfire response increases,

- Texas Intrastate Fire Mutual Aid System (TIFMAS) firefighters are mobilized Surge capacity for the state
- Wildland firefighters from across the nation are brought in, under state control, to meet essential needs
- Aviation resources are staged in state
 Texas A&M Forest Service does not own any
 aviation resources but instead uses federal
 aviation contracts through the U.S. Forest
 Service and Bureau of Land Management for all
 firefighting aircraft





Questions/Comments