Texas A&M Forest Service
Geospatial Wildfire Risk Applications

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SFRA project:

- Includes 13 Southern State
- Led by TFS
- GIS Application/ESRI Platform
- Identify High Risk Areas, Causal Factors
- Guide Risk Reduction/Mitigation

Level of Concern

- Non-Burnable
- Low
- Moderate
- High
SFRA model integrates:

- Historical weather
- Fire history (ignitions)
- Surface fuels
- Roads
- WUI
- Fire behavior analysis
- Fire effects and suppression effectiveness
**Texas Wildfire Risk Assessment Portal (TxWRAP)**

TxWRAP is the primary mechanism for the Texas A&M Forest Service to deploy risk information and create awareness about wildfire issues across the state.

www.TexasWildfireRisk.com

Features 4 geospatial web applications and a mobile browser.
Features a tool called “What’s Your Risk?”

It allows users to zoom to a place of interest, explore map themes and identify risk.

User are directed to additional resources to help them mitigate their risk.
The Professional Viewer supports the community wildfire protection planning needs of:

- government officials
- mitigation planners
- wildland fire professionals

Custom reports can be easily generated for counties, cites, or user-defined areas.
The Fire Occurrence Explorer features a tool called the “Fire Cause Analyzer”.

It allows users to interactively explore fire statistics using dynamic charting and mapping capabilities in order to derive patterns related to fire cause.
Web-accessible/GIS-based

- Timber Supply Analysis
- Forest Distribution
- Forest Ecosystem
- Economic Impact
- Timber Decision Simulator
- Forest Products Directory
TFS Predictive Service Department:

- Daily Fire Danger
- Drought Indices
- Fuel Dryness
- Online and Automated
- Remote Automated Weather Stations
Generate fire spread simulate in less than a minute.

Incorporates latest fire behavior data including terrain, vegetation and fuels (TxWRAP) as well as current weather.
Can also provide analysis of wildfire impacts (population, homes, values at risk, etc.)
Potential Assistance includes:

- Availability/sharing of data
- Access to existing applications
  - May require some customized data exports
- Fire behavior analysts, mitigation (risk reduction) specialists and other subject matter experts