A Fire Weather Intelligence Portal for the Southeast US

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Background

• 2005ish: Discussions began between SCO and NC Forest Service
• Goal: A real-time monitoring tool for weather and fire risk info.
Portal History

• 2011: Portal development began
  – Iterative design process with NCFS
  – Adding NC stations to WIMS Database

• June 2013: Portal officially released for NC

• Since then: Maintenance supported by NCFS
Portal Successes

• One-stop shop for weather and fire risk information
• Established a strong relationship between SCO, NCFS
• North Carolina became a pioneer for providing this sort of information
  – “How can I get this for my state?!”
Portal Expansion

- Funding from SERCH to add data for the 13-state southern region
- Rebuild of the Portal backend
  - Reduce load times
  - Add mobile compatibility
  - Use latest mapping technology
Portal Demo

https://climate.ncsu.edu/fwip
New Datasets

- CPC outlook, WPC QPF, US Drought Monitor overlays
- Regional/national fire and smoke products
  - Ventilation rate, Burning Category, ADI
- NFDRS2016 data
  - Including gridded datasets
Added Features

- Retrieving gridded values and point histories on click
- More historical context for meteograms
Alerts

• Portal data will be incorporated into SERCH LIGHTS
  – Currently for monthly drought outlooks, cattle heat stress index
• KBDI alert is in development
• Eventually, other gridded fire risk parameters
Fire Research

• Prescribed burn day climatology and future projections
  – Similar to climatological analysis by Southern Climate Impacts Planning Program
Questions or Suggestions?

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