

Experimental SPC Dry Thunderstorm Fire Weather Outlook for Days 4-8

Product Description Document (PDD)

Part I - Mission Connection

a. Product Description – This product provides a daily categorical forecast of critical fire weather conditions for dry thunderstorms in the 4 through 8 day period.

b. Purpose – The National Centers for Environmental Prediction (NCEP) Storm Prediction Center (SPC) provides Day One, Day Two and Day 3-8 Fire Weather Outlooks (narrative and graphical) describing large-scale meteorological conditions in the lower 48 states which, when combined with the antecedent fuel conditions, favor the rapid growth and spread of a wildfire, should a fire ignition occur. These outlooks provide guidance for WFO forecasters and aid land management agencies in determining large-scale areas of fire danger risk.

The operational SPC Fire Weather Outlooks include daily categorical forecasts of critical fire weather conditions from dry thunderstorms for Days 1, 2, and 3, and from strong winds, low relative humidity, and warm temperatures through Day 8. Predictive Services and NWS WFO meteorologists along with users in the fire weather community have expressed interest in longer range outlooks of dry thunderstorm critical fire weather areas for Day 4 through Day 8.

c. Audience - The target audience includes NWS and Predictive Services meteorologists. The product may be useful to anyone in the fire weather community, emergency management, media, and the general public to adequately prepare several days in advance for the potential of critical fire weather conditions.

d. Presentation Format – The Experimental SPC Dry Thunderstorm Fire Weather Outlooks will be presented as five web-based graphics and five corresponding NDFD grids. A graphic/grid for each individual day (day 4, 5, 6, 7, 8) will include areas where numerous cloud-to-ground lightning strikes, generally less than one-tenth inch of rain and dry fuels are forecast. The text Day 3-8 Outlook will also include a discussion of the individual fire weather areas and conditions.

e. Feedback Method - Web feedback from the broader community will be sought via an NWS customer survey link on the SPC webpage beginning on June 25, 2013 and ending on July 30, 2013, at which time a decision to proceed with testing, revise the test, or to continue on the path to operational production will be made.

Comments may also be provided to:
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Part II - Technical Description

a. Format and Science Basis – Experimental SPC Dry Thunderstorm Fire Weather Outlooks for Days 4-8 will consist of a web graphic for each day (days 4, 5, 6, 7, and 8) and a corresponding NDFD grid.

Areas of threat are based on a combination of dry fuel conditions and numerous cloud-to-ground lightning strikes with generally less than one-tenth inch of rain. The area corresponds to a 40% or greater probability of dry thunderstorms with dry fuels within 12 miles of a point during the 24 hour period of the indicated day.

This product can be accessed along with the operational Day 3-8 Fire Weather Outlooks on the SPC webpage at the following URL: http://www.spc.noaa.gov/products/exper/fire_wx/

WMO headers and AWIPS IDs for the suite of Day 3-8 Fire weather Outlook products include:

DAY 3-8 FIRE WEATHER OUTLOOK

WMO HEADER: FNUS28 KWNS

AWIPS ID: FWDD38

DAY 3-8 FIRE WEATHER OUTLOOK AREAL OUTLINE

WMO HEADER: FNUS38 KWNS

AWIPS ID: PFWF38

DAY 3-8 FIRE WEATHER OUTLOOK REDBOOK GRAPHIC

WMO HEADER: PGNO98 KWNS

The NDFD header for the experimental CONUS Day 4-8 Dry Thunderstorm grids is LOUZ97 KWNS. The NDFD header for the experimental CONUS Day 4-8 Dry Thunderstorm grid is LOUZ87 KWNS. The WMO headers for the NDFD graphics are as follows:

LDIY41 Day 4

LDIY51 Day 5

LDIY61 Day 6

LDIY71 Day 7

LDIY81 Day 8

b. Availability – The dry thunderstorm fire weather outlooks for days 4, 5, 6, 7, and 8 will be issued daily by 2200 UTC, in conjunction with the issuance of the operational Day 3-8 Fire Weather Outlook graphics and text discussion.

c. Additional Information – None.

NWS Product Definition Document (PDD) for:

Experimental SPC Probabilistic Day 3-8 Fire Weather Outlooks

Submitted 25 June 2013

Approval:

_____ Director, Storm Prediction Center

_____ OCWWS Fire Weather Program Leader

_____ Director, National Centers for Environmental Prediction