

PRODUCT DESCRIPTION DOCUMENT

Experimental Gridded Day 2 and Day 3 Excessive Precipitation Forecast

APPROVED _____

Date: _____

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Experimental Gridded Day 2 and Day 3 Excessive Precipitation Forecast

Part I - Mission Connection

- a. Product Description - The Gridded Day 2 and Day 3 Excessive Precipitation Forecasts are experimental products that display the probability of precipitation amounts exceeding the flash flood guidance values issued by the River Forecast Centers at the time of product issuance. The product displays areas for the continental United States where the probability of precipitation amounts exceeding flash flood guidance is slight (defined as threat in the range 5 percent to less than 10 percent), moderate (defined as threat from 10 percent to less than 15 percent), and high (defined as threat 15 percent or greater). The River Forecast Centers do not currently issue flash flood guidance for days 2 and 3 so at this time the product will be based on the day 1 flash flood guidance.
- b. Purpose – The HPC will use these products to convey areas with the potential for flash flooding across the continental United States. HPC currently provides this information operationally for Day 1 forecasts and customers have requested additional day 2 and day 3 forecasts. Through the experimental period from June 5 - November 15, 2007, users are encouraged to provide comments concerning the gridded day 2 and day 3 excessive precipitation forecast products to determine the benefit and usefulness of these products and the product format.
- c. Audience - The Weather Forecast Office forecaster is the primary target audience. However, this product may be widely used by federal, state, and local government agencies; state and local emergency managers; media; and the general public.
- d. Presentation Format - Day 2 and Day 3 Excessive Precipitation Forecasts are issued on AWIPS Gridded Binary Data, Edition 2 (GRIB2) format at 5 kilometer resolution over the continental United States. Graphical products will be displayed on the internet at:

http://www.hpc.ncep.noaa.gov/qpf/excess_rain.shtml
- e. Feedback Method - User feedback is important in our effort to improve the quality and usefulness of products and services. Comments may be submitted by clicking on the “Feedback/Survey” link on the HPC Excessive Precipitation web page and at the following URL:

<http://www.weather.gov/survey/nws-survey.php?code=D2D3EPF>

Comments will be accepted from June 5, 2007 to November 15, 2007

Technical questions about the product may be addressed to:

National Weather Service

Attn: Robert Kelly

Hydrometeorological Prediction Center

5200 Auth Rd

Camp Springs, MD 20746

or e-mail: robert.kelly@noaa.gov

Part II - Technical Description

- a. Format & Science Basis – The products are manually produced, based on the cumulative 6-hour quantitative precipitation forecasts for day 2 and day 3 and compared to the 24 hour River Forecast Center flash flood guidance. Probabilities will be produced for three thresholds (slight, moderate, and high) at 24 hour intervals for day 2 and day 3.
- b. Product Availability - The gridded day 2 and day 3 excessive precipitation products will be issued by the Hydrometeorological Prediction Center twice a day. The valid time period for the day 2 and day 3 products will be 1200 TC to 1200 UTC for the 0600 UTC issuance and 000 UTC to 000 UTC for the 1800 UTC issuance.
- c. Additional Information
Full descriptions of other NWS Hydrology Program products are provided in NWSI 10-930, which is available online:

<http://www.nws.noaa.gov/directives/sym/pd01009030curr.pdf>