

***NATIONAL WEATHER SERVICE
PRODUCT/SERVICE DESCRIPTION DOCUMENT (PDD)
TYPE: Official Product
DATE: January 28, 2003***

3- TO 14-DAY HAZARDS ASSESSMENT

Part 1 - Mission Connection

1. Product/Service Description:

The Climate Prediction Center (CPC) issues this product for the contiguous U.S. and Alaska to provide potential hazardous conditions from extreme temperature, high wind, heavy precipitation or lack of precipitation, and dry or moist soils and wildfire risk.

2. Purpose/Intended Use:

With this information, industry, communities, and individuals can take precautionary steps and put plans in place to mitigate the impacts of potentially hazardous events.

3. Audience:

This would include weather-sensitive users such as emergency managers, utilities, the travel industry, and the general public.

4. Presentation Format:

The outlooks are presented charts sent over NWS disseminations systems in red book graphic format and on the CPC web site.

5. Feedback Method:

E-mail both Robert.Leffler@noaa.gov and Barbara.Mayes@noaa.gov.

Part 2 - Technical

1. Format and Science Basis:

CPC will indicate areas of potentially hazardous weather and climate events. CPC will indicate such areas due to the following three potential causes: (1) precipitation (or lack of); (2) wind and temperature; and (3) soil and wildfire conditions.

The definitions of the hazards follow. Because prior conditions play a role in impacts of the hazards, the following definitions are only guidelines.

Hazard	Nominal Threshold	Lower threshold if associated with ...
(1)		
Precipitation	50 mm/5 days or upper 12.5 % of observed distribution /4 or more inches of snow	<ul style="list-style-type: none"> - Flooding - Heavy mountain snow - Already wet soils
Flood	Above flood stage predictions by NWS River Forecast Centers	<ul style="list-style-type: none"> - Heavy precipitation
(2)		
Temperature	Top/bottom 12.5% of observed distribution humidity	<ul style="list-style-type: none"> - Fire - Warm season + high relative - Cold season with high wind
Wind	<ul style="list-style-type: none"> - >34 mph winds for 1 hour - >58 mph wind gusts 	<ul style="list-style-type: none"> - Fire - Cold - Snow
Waves, coastal erosion	Danger according to Marine Prediction Center and Tropical Prediction Center	<ul style="list-style-type: none"> - Strong onshore flow continued through several tidal cycles
(3)		
Drought	D2, D3, or D4 category from Drought Monitor. See Instruction 10-1002 (Climate Monitoring).	
Wildfire	Very high and extreme danger as rated by the National Interagency Fire Center in Boise, ID.	<ul style="list-style-type: none"> - Dry lightning - High winds - High temperature + low relative humidity

CPC will issue a map for each cause with hazards areas enclosed by a solid line.

3- to 14-day precipitation hazards

http://www.cpc.ncep.noaa.gov/products/predictions/threats/p_threats.gif

3- to 14-day temperature and wind hazards

http://www.cpc.ncep.noaa.gov/products/predictions/threats/t_threats.gif

3- to 14-day soil/wildfire hazards

http://www.cpc.ncep.noaa.gov/products/predictions/threats/s_threats.gif

2. **Availability:**

CPC issues the products on Tuesday at around 4:00 p.m. Eastern local time. Amendments, updates, or corrections will be issued as needed. CPC issues these products through NWS disseminations systems under the following product IDs:

Hazard	WMO heading	AWIPS ID
PRECIPITATION	PEIY50 KWNC	RBGTHP
TEMPERATURE/WIND	PTIY98 KWNC	RBGTHT
SOIL/WILDFIRE	PYIY88 KWNC	RBGTHS

They are also issued on the CPC web site at the URLs listed in section a.

3. **Additional Information:**

- Valid Time: The valid time is for the 3- to 14-day Period after the Tuesday issuance.
- Product Expiration Time: The outlook expires with the next issuance of the product.
- Creation Software: CPC will use the General Meteorological Package (GEMPAK) software as an input into National Advanced Weather Interactive (NAWIPS) Processing System.