

6- to 10-Day and 8- to 14-day Excessive Heat Outlooks (Contiguous U.S)

Part 1 - Mission Connection

a. Product/Service Description. The Climate Prediction Center (CPC) issues 6- to 10-Day and 8- to 14-Day excessive heat outlooks in probabilistic format for the Contiguous U.S.

b. Purpose/Intended Use. This product is intended for planning for potential cumulative heat exposure that could cause significant health risks, especially for a number of the most vulnerable cities.

c. Audience. The product is for use by health officials and local emergency managers.

d. Presentation Format. CPC presents the outlooks as charts sent over NWS dissemination systems in “red book graphic” format and on the CPC web site (in GIF charts).

e. Feedback. Go to: <http://www.cpc.ncep.noaa.gov/comment-form.html>

Part 2 - Technical

a. Format and Science Basis. CPC will issue outlooks of the probability (in percent) of the average calendar day heat index exceeding three different thresholds ($\geq 85^{\circ}\text{F}$ for ≥ 3 days; $\geq 90^{\circ}\text{F}$ for ≥ 2 days; $\geq 95^{\circ}\text{F}$ for ≥ 1 day) during the valid period. The heat index formula is described in NWS Instruction 10-705 (WFO Non-precipitation Weather Products Specification).

CPC will plot dashed probability isoline contours. CPC will shade in probabilities that are greater than 50%.

URLs for 6- 10-Day excessive heat outlooks

$\geq 85^{\circ}\text{F}$ for ≥ 3 days

http://www.cpc.ncep.noaa.gov/products/predictions/610day/gifs/appt_maps.08.35.a.gif

$\geq 90^{\circ}\text{F}$ for ≥ 2 days

http://www.cpc.ncep.noaa.gov/products/predictions/610day/gifs/appt_maps.08.25.a.gif

$\geq 95^{\circ}\text{F}$ for ≥ 1 day

http://www.cpc.ncep.noaa.gov/products/predictions/610day/gifs/appt_maps.08.15.a.gif

URLs for 8- 14-Day excessive heat outlooks

$\geq 85^{\circ}\text{F}$ for ≥ 3 days

http://www.cpc.ncep.noaa.gov/products/predictions/814day/gifs/appt_maps.11.37.a.gif

$\geq 90^{\circ}\text{F}$ for ≥ 2 days

http://www.cpc.ncep.noaa.gov/products/predictions/814day/gifs/appt_maps.11.27.a.gif

≥95°F for ≥1 day

http://www.cpc.ncep.noaa.gov/products/predictions/814day/gifs/appt_maps.11.17.a.gif

b. Availability. These are scheduled products issued daily around 4:00 p.m. Eastern Local Time from April 1 through September 30. CPC does not issue updates or amendments. They will issue corrections as needed. They are issued on NWS dissemination systems under the following product IDs:

Average Daily 6- to 10- Day 8- to 14-Day

Heat Index threshold WMO Heading AWIPS ID WMO Heading AWIPS ID

≥85°F for ≥3 days PTAS90 KWNC RBGHI4 PTAT90 KWNC RBGHI7

≥90°F for ≥2 days PTAS95 KWNC RBGHI5 PTAT95 KWNC RBGHI8

≥95°F for ≥1 day PTAS00 KWNC RBGHI6 PTAT00 KWNC RBGHI9

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

c. Other Information.

Valid Time. The valid time is the 6- to 10-day or 8- to 14-day period after issuance.

Product Expiration Time. The outlooks expire 24 hours later with issuance of the next 6- to 10-Day or 8- to 14-Day Excessive Heat Outlooks.

Creation Software. CPC will use GEMPAK software as an input into both NAWIPS and to create GIFs for the internet.