A look back at June and a preview for August – October

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**Global Climate Highlights**

**June 2012 Temperatures:**
- 4th warmest June globally (+0.63°C/+1.13°F).
- Land: 1st warmest; Ocean: 10th warmest
- N. Hemisphere: 2nd warmest June on record
- 11th warmest January-June

**Regional Analysis:**
- ENSO-neutral conditions in Pacific
- U.K. – coolest June since 1991
- Austria – 6th warmest June in 250 years of record

**June 2012 Precipitation:**
- Tropical Storm Debby becomes the fourth named storm of N. Atlantic season
- Tropical cyclones also affect Mexico and Philippines
- 5 million people evacuated in China due to flooding

**Dry:** Central U.S., Argentina, India, southern Europe
**Wet:** Brazil, South Africa, eastern Australia, U.K.
Global Climate Highlights

2nd smallest June Arctic Sea Ice Extent
Record ice lost during June – 2.86 million square km

Northern Hemisphere Sea Ice Extent
June Anomalies, 1979–2012

1979-2000 average = 12.2 million sq km
Trend = -3.7 percent per decade

Data provided by the National Snow and Ice Data Center (NSIDC)
Nationally: 14th Warmest June/Warmest Year-to-date

- **June**: Warm in the Plains and Intermountain West
  - Colorado record warm, with 7 other states ten warmest
  - Cool in the Northwest and Southeast
  - 170+ all-time temperature records broken/tied during June
- **Year-to-Date**: First half of 2012 record warm
  - 28 states record warm for Jan-June, with 15 additional states top ten warm for the 6-month period
  - Only the Northwest “near-average”
U.S. Climate Highlights

Nationally: 10th Driest June/16th Driest Year-to-Date
Drought conditions cover over half of Contiguous United States

June
- Wet in Northwest, Northeast, and Florida (Debby)
- Dry from the Rockies, Plains, and into Ohio Valley

Year-to-Date
- Wet in Northwest and Upper Midwest
- Dry in Southwest, Mid-South, and Ohio Valley

June 2012 Statewide Ranks
National Climatic Data Center/NESDIS/NOAA

January-June 2012 Statewide Ranks
National Climatic Data Center/NESDIS/NOAA

July 19, 2012 | Monthly Climate Webinar
Drought Impacts

U.S. Drought Monitor

July 17, 2012

Drought Condition (Percent Area): United States Archive

- United States, including Alaska, Hawaii, and Puerto Rico
- Contiguous United States

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Drought Condition (Percent Area): United States Archive

- United States, including Alaska, Hawaii, and Puerto Rico
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The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

http://droughtmonitor.unl.edu/

Author: Richard Heim/Liz Love-Brotak, NOAA/NEESDR/NCDC

Released Thursday, July 19, 2012
On July 11, USDA’s World Agricultural Outlook Board cut the estimate for the 2012 U.S. corn crop by 1.82 billion bushels to “reflect expected impacts of persistent and extreme June and early-July dryness and heat across the central and eastern Corn Belt.” The 12% cut, which left the projected U.S. corn production at 12.97 billion bushels, is a direct result of the nation’s worst drought in a generation—since 1988. – Brad Rippey, USDA Meteorologist, Office of the Chief Economist
Drought Impacts Timeline (Selected)

- Mid-July 2012: Concern about reduced crop yields, food prices, as USDA lowers yield forecasts and streamlines the disaster declaration process. Drought spreading across the Corn Belt.

- Mid-July 2012: City of Warrenton MO declares a water emergency and imposes mandatory conservation due to drought. Other communities face similar circumstances.

- July 2012: Many reports of irrigation water denied or curtailed, including 1,000 surface water users across the state of Nebraska.

- Early July 2012: Insect proliferation and damage reported in Missouri, Arkansas

- Late June 2012: Waldo Canyon Fire in Colorado was the most destructive in the state’s history, with 346 homes burned.

- June-July 2012: Many communities across the central U.S. banned fireworks displays.

- May 2012: NM Gov. Susana Martinez issued a formal drought declaration to make it easier for communities and agricultural producers to seek assistance. Whitewater-Baldy fire in Southwest New Mexico burned 297,845 acres and was the largest in the state’s history, expected to smolder until monsoons.
Voluntarily Reported Drought Impacts

Volunteer-Submitted Reports, Jan. 1-July 15

Volunteer-Submitted Reports, Jan. 1-July 15

Reports for each month of 2012 (including the first half of July) submitted by volunteers to the Drought Impact Reporter

“With the record-setting high temps. and several days of 108 to 113 degree temps, irrigation water shutting off and the dry hot wind, conditions of pasture have turned from bad to worse. Ranchers are now calling in with reports of finding dead antelope fawns in the shade of cedar posts, very sad situation. Cattle are starting to go to town.” From a farmer/rancher in Eads, Colorado, on June 28, 2012

Severe crop (corn and soybeans and pasture) stress in Marion and Jefferson counties, Illinois. Some corn at tassel stage. From Martin Culik, Bloomington, Illinois, on June 29, 2012
Latest Sea Surface Temperatures

ENSO Neutral Conditions;
Warmer than normal
East Pacific temperatures

7-day Average Centered on June 13, 2012
1-Month Temperature and Precipitation Forecast

AUGUST AVERAGE TEMPERATURE PROBABILITY

AUGUST TOTAL PRECIPITATION PROBABILITY

ONE-MONTH OUTLOOK TEMPERATURE PROBABILITY
0.5 MONTH LEAD
VALID AUG 2012
MADE 19 JUL 2012

ONE-MONTH OUTLOOK PRECIPITATION PROBABILITY
0.5 MONTH LEAD
VALID AUG 2012
MADE 19 JUL 2012

EC means equal
A means above
B means below
Latest U.S. Hazards Outlook for Days 3-14

Day 3-7 U.S. Hazards Outlook
Made: 07/18/2012 3PM EDT
Valid: 07/21/2012-07/25/2012

Day 8-14 U.S. Hazards Outlook
Made: 07/18/2012 3PM EDT
Valid: 07/26/2012-08/01/2012

Disclaimer: This image uses transparencies to enable viewing of features on multiple layers at the same time. Because colors of overlapping images blend together, the colors you see in overlapping images may be different from those on the legend, unless you view each layer separately. To view the Hazards Outlook using XML and Google Maps, please go to: http://www.spc.noaa.gov/products/predicitions/threats/threats.php

NO HAZARDS POSTED

Monthly Climate Webinar
Today’s Presentation:
  • [http://www.ncdc.noaa.gov/sotc/briefings](http://www.ncdc.noaa.gov/sotc/briefings)

NOAA’s National Climatic Data Center: [www.ncdc.noaa.gov](http://www.ncdc.noaa.gov)

NOAA’s Climate Prediction Center: [www.cpc.ncep.noaa.gov](http://www.cpc.ncep.noaa.gov)

U.S. Drought Monitor: [http://droughtmonitor.unl.edu/](http://droughtmonitor.unl.edu/)

Drought Impacts Reporter: [http://droughterpoter.unl.edu/](http://droughterpoter.unl.edu/)

Climate Portal: [www.climate.gov](http://www.climate.gov)

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