

Mark Svoboda and Mike Hayes National Drought Mitigation Center

Al Dutcher, State Climatologist School of Natural Resources University of Nebraska-Lincoln





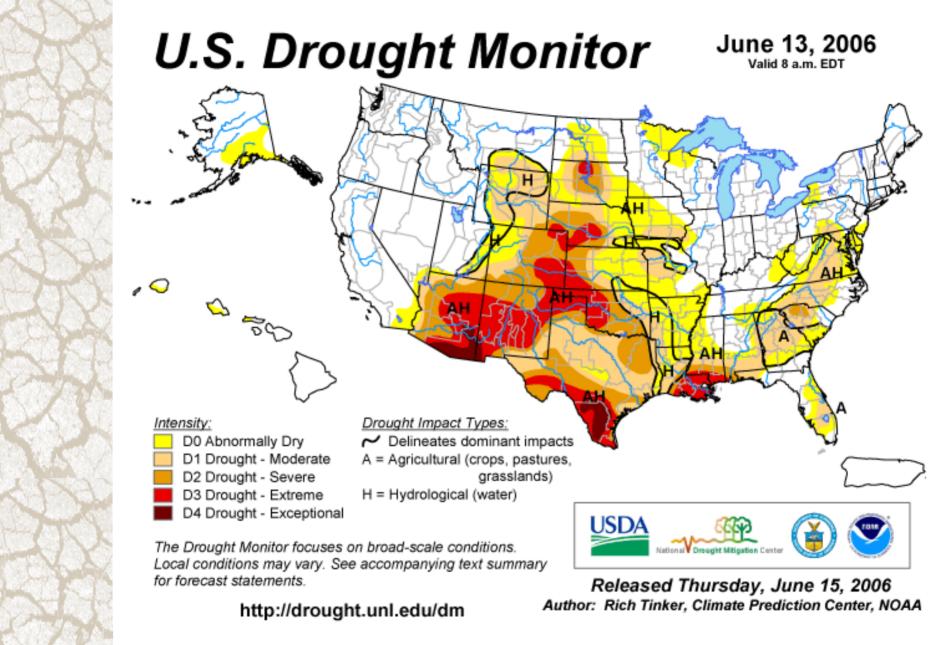
Nebraska Current Conditions...



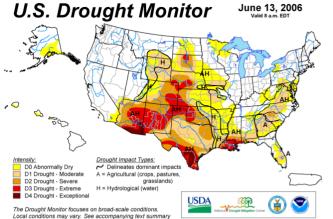
February 28, 2006 U.S. Drought Monitor Intensity: Drought Impact Types: D0 Abnormally Dry Delineates dominant impacts D1 Drought - Moderate A = Agricultural (crops, pastures, D2 Drought - Severe grasslands) U.S. Drought Monitor April 4, 2006 Valid 7 a.m. EST D3 Drought - Extreme H = Hydrological (water) D4 Drought - Exceptional **USDA** The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements. Released Th Author: Brian Fuchs, Nati http://drought.unl.edu/dm Intensity: Drought Impact Types: D0 Abnormally Dry Delineates dominant impacts D1 Drought - Moderate A = Agricultural (crops, pastures, D2 Drought - Severe D3 Drought - Extreme H = Hydrological (water) (No type = Both impacts) D4 Drought - Exceptional USDA The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements. Released Thursday, April 6, 2006

http://drought.unl.edu/dm

Author: Douglas Le Comte, CPC/NOAA







Nebraska % Area Affected (based on DM map of June 13, 2006)

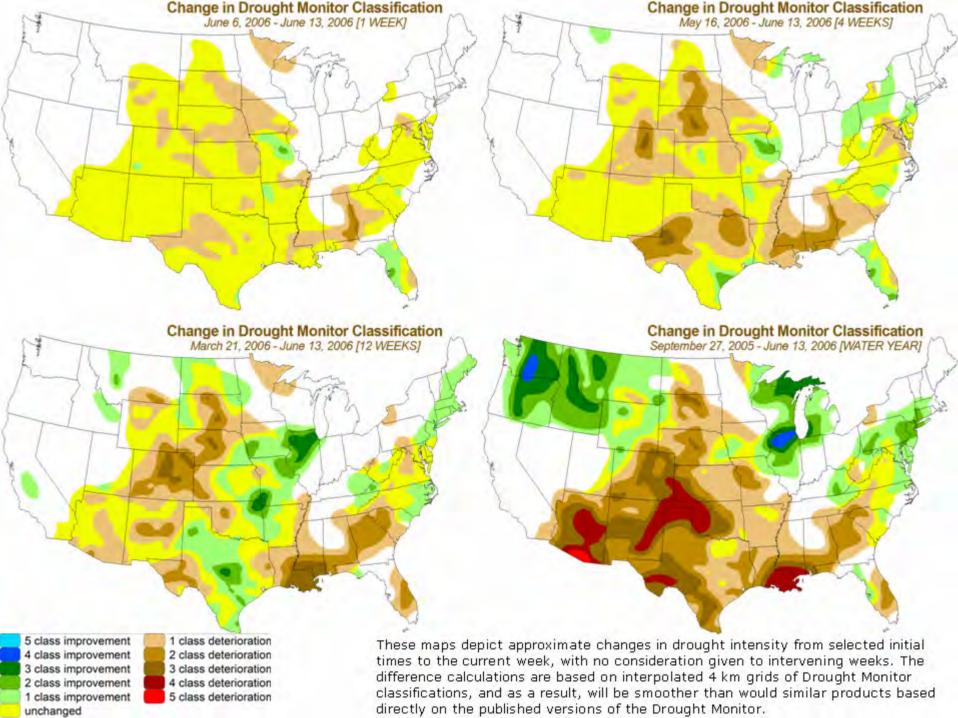
http://drought.unl.edu/dm

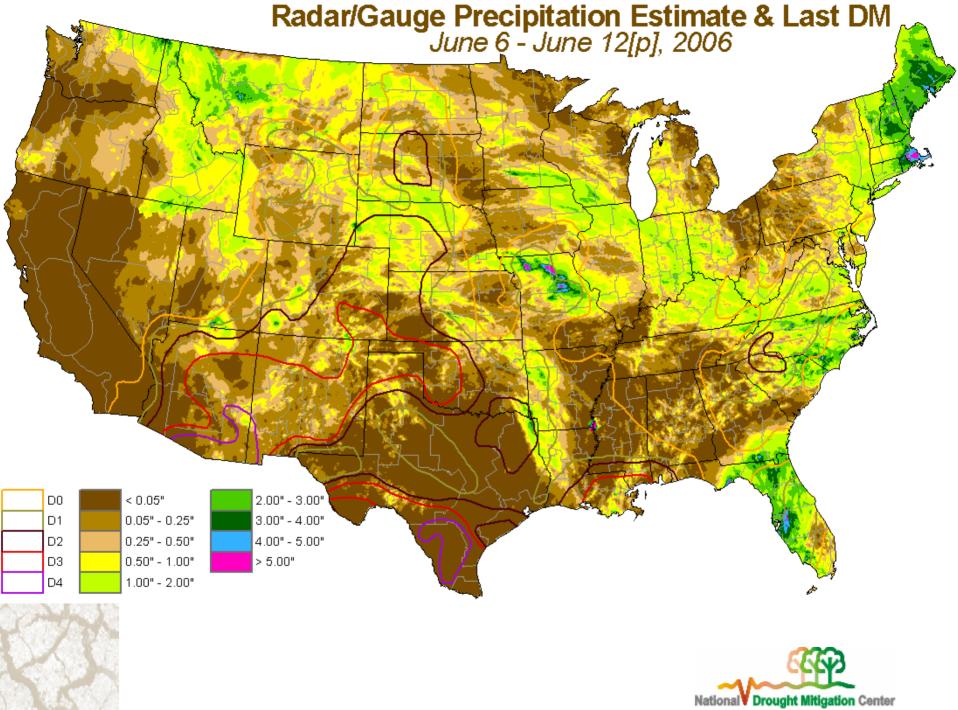
Released Thursday, June 15, 2006
Author: Rich Tinker. Climate Prediction Center, NOAA



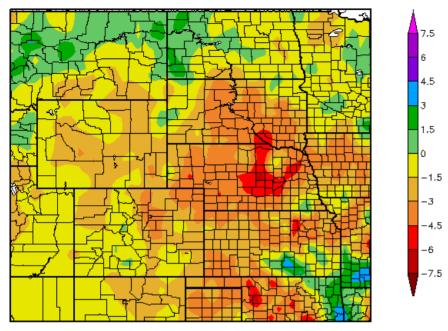
6/13/2006
100%
D1 69.64%
D2 46.34%
D3 16.91%
D4 0%







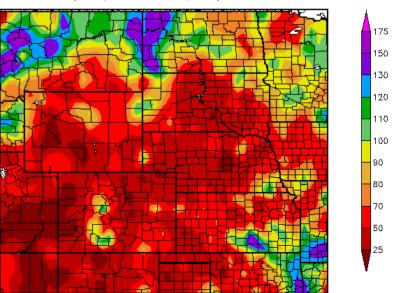
Departure from Normal Precipitation (in) 4/16/2006 - 6/14/2006



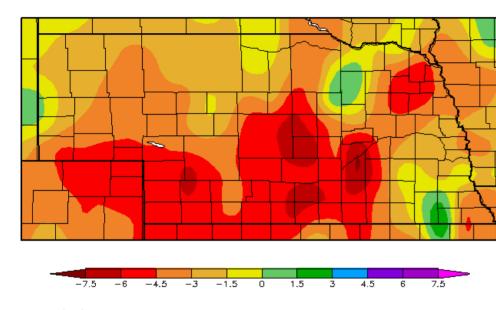
Generated 6/15/2006 at HPRCC using provisional data.

NOAA Regional Climat

Percent of Normal Precipitation (%) 4/16/2006 - 6/14/2006



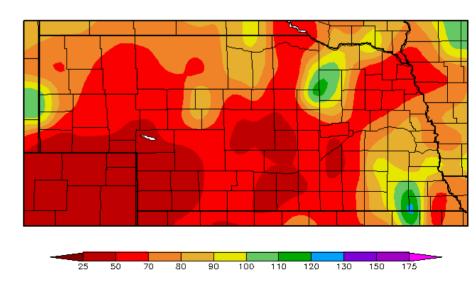
Departure from Normal Precipitation (in) 1/1/2006 - 6/14/2006



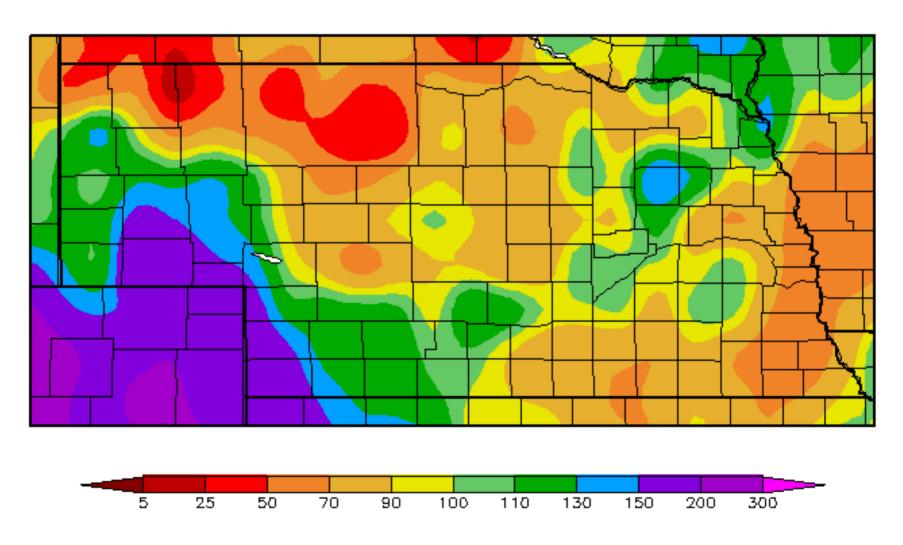
Percent of Normal Precipitation (%) 1/1/2006 - 6/14/2006

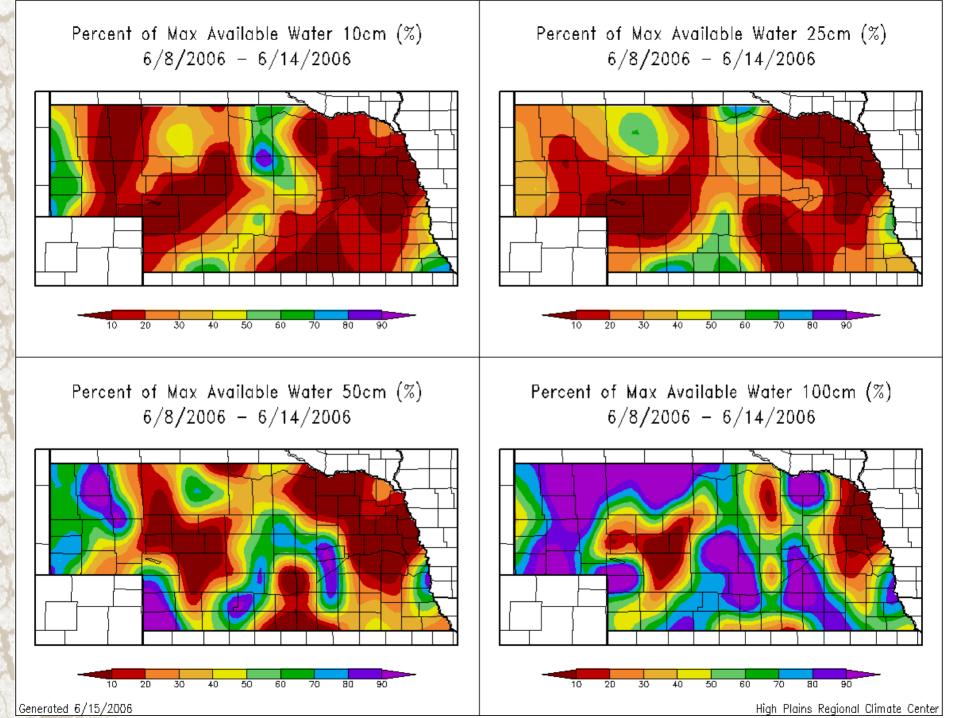
Generated 6/15/2006 at HPRCC using provisional data.

NOAA Regional Clima



Percent of Normal Precipitation (%) 10/1/2005 - 12/31/2005



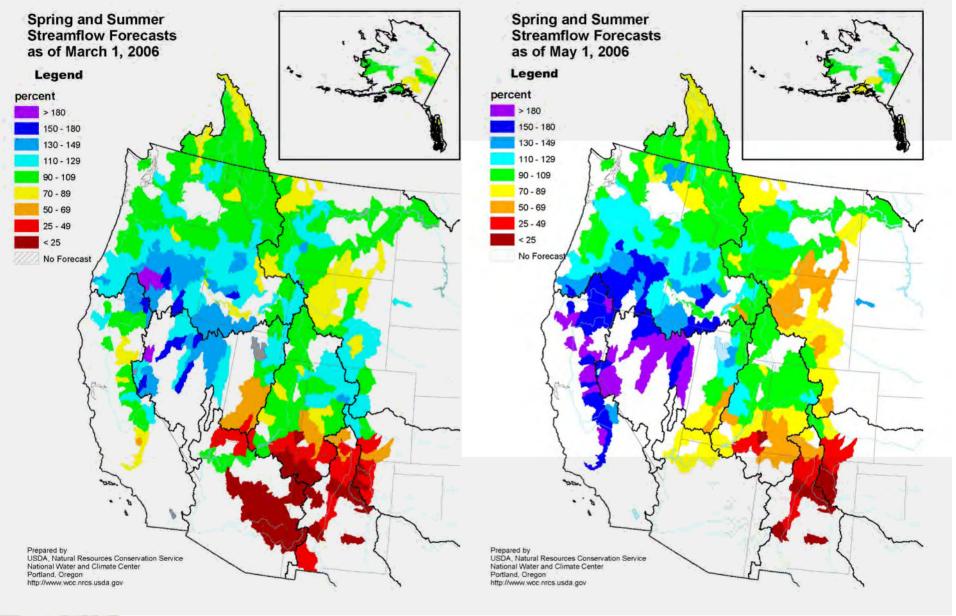


Nebraska Water Supply Update...



Platte River, Hamilton/Hall County Line, June 6, 2006
Ken Dewey

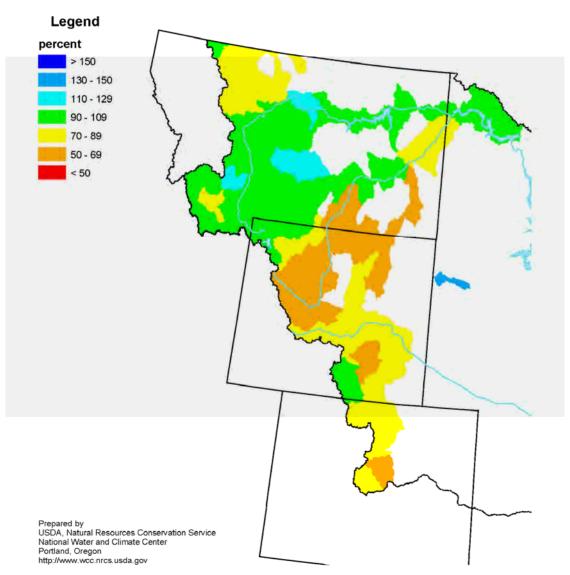
National **▼ Drought Mitigation** Center







Missouri River Basin Spring and Summer Streamflow Forecasts as of May 1, 2006





Lake McConaughy

(as of June 13, 2006)

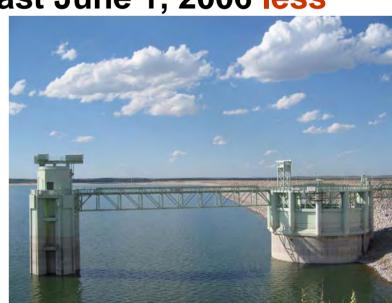
669,900 af (38.4% of capacity) (1.3 ft. above this time last year)

BOR snowmelt runoff forecast February 1, 2006 130% of normal

BOR snowmelt runoff forecast June 1, 2006 less

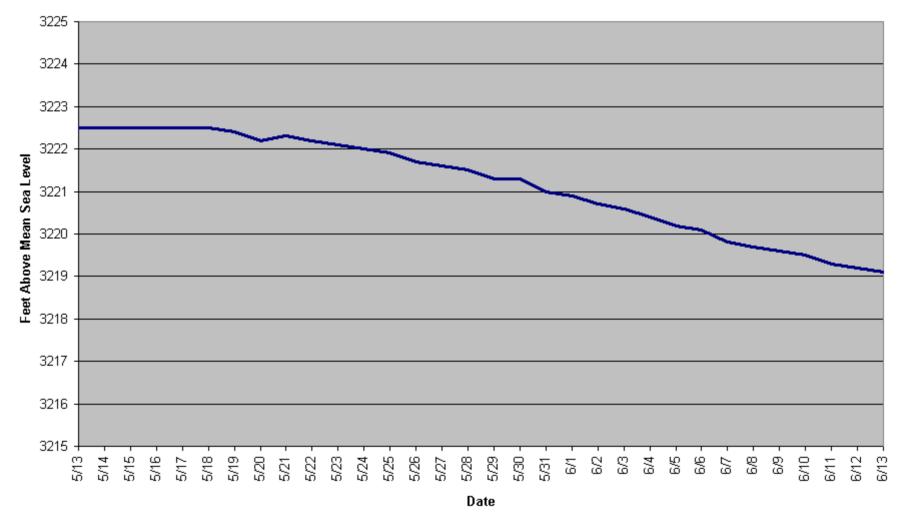
than 50% of normal

SOURCE: CNPPID



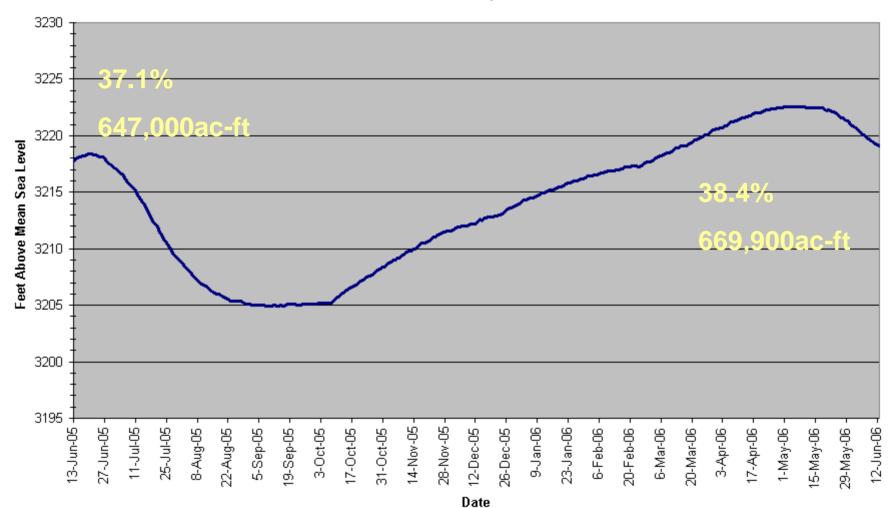
Lake McConaughy Elevation

May 13 to June 13, 2006





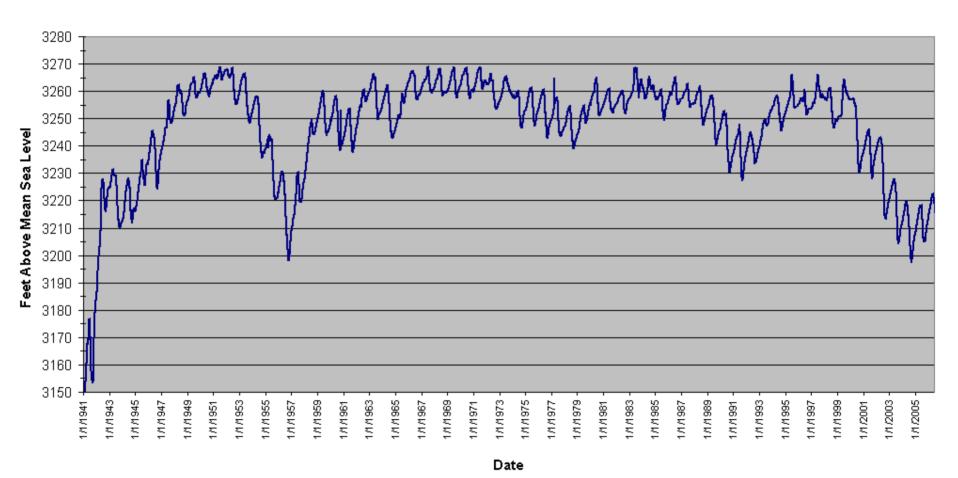
Lake McConaughy Elevation Since June 13, 2005







Lake McConaughy Elevation 1941 to Present







Republican River Basin



- Courtesy of Bill Peck, McCook Office, Bureau of Reclamation
- Overall, "not very good"
- Difficult situation for some local irrigation districts continues
- Inflows in 2005 were generally better than 2004, 2003, and 2002 (which were all successive record lows)







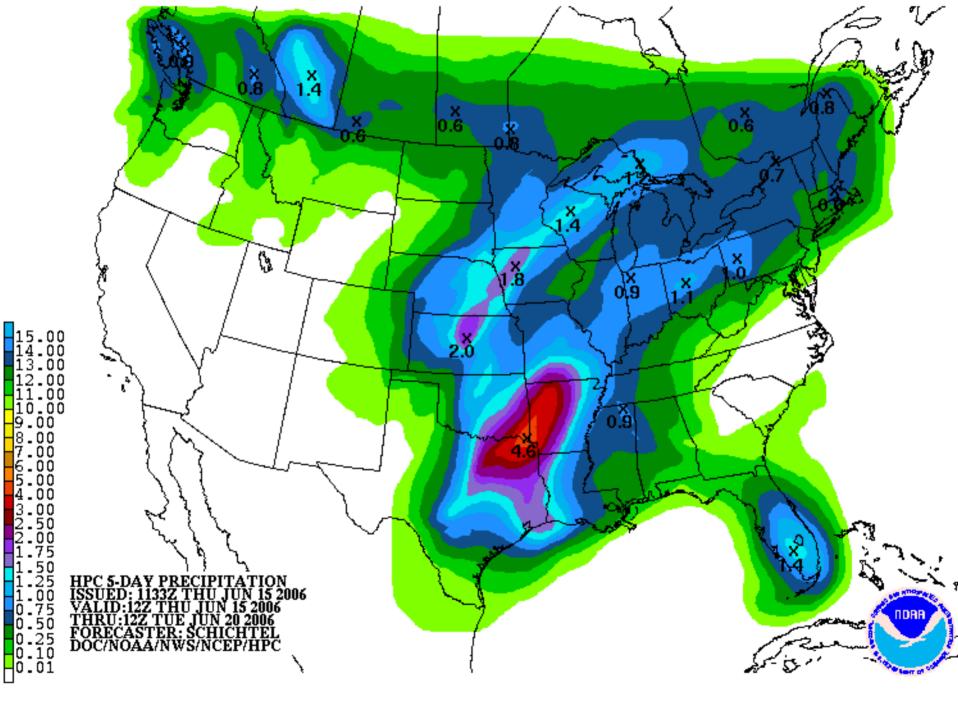
- Inflows in 2006 ceased by mid April
- In 2006, irrigation began in May
 - Warm, windy, and dry month
- Precipitation in some areas less than in 2002

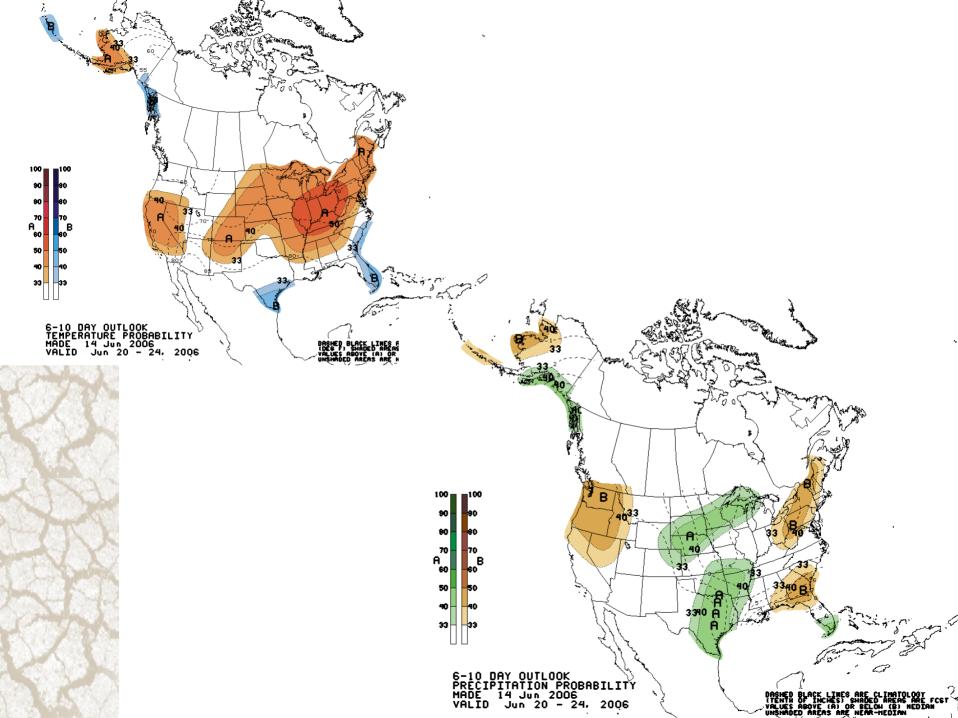


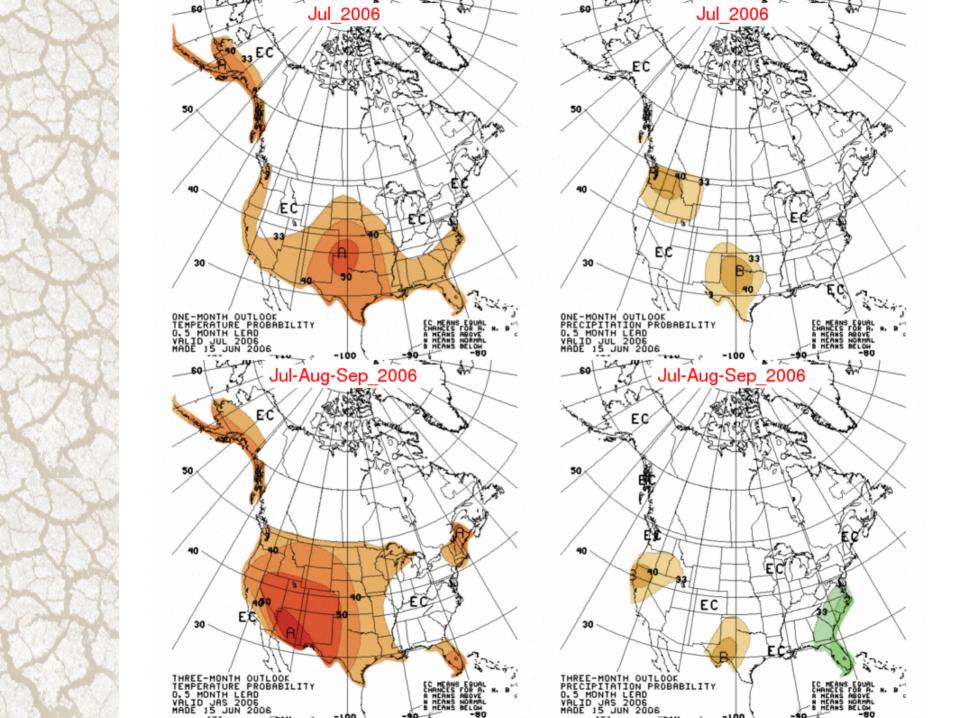


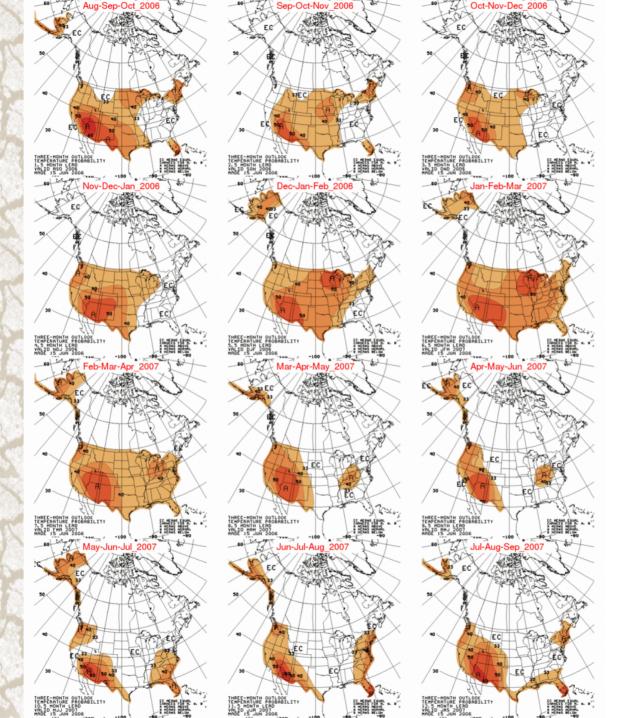
Forecasts.....



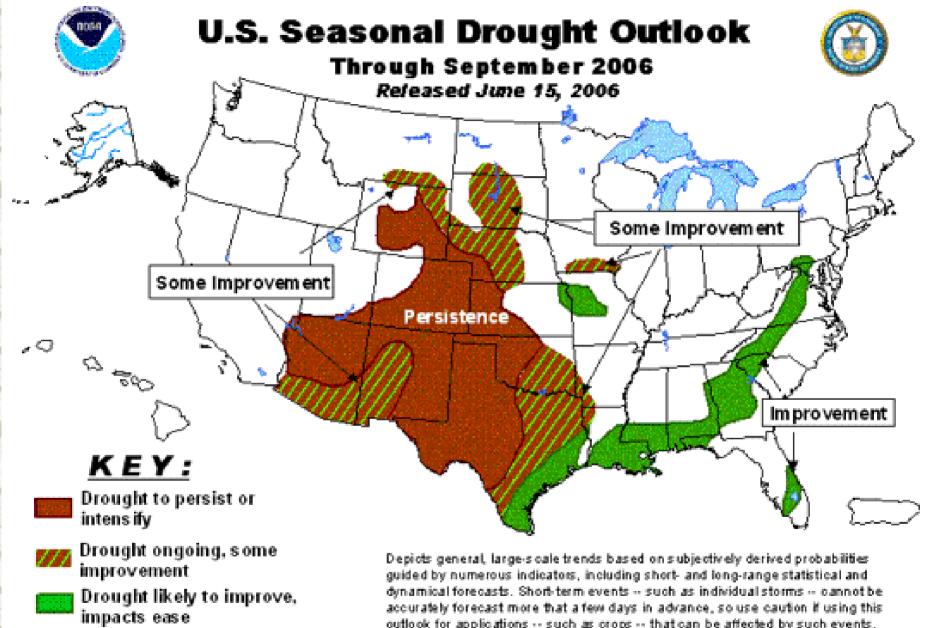












Drought development

likely

guided by numerous indicators, including short- and long-range statistical and dynamical forecasts. Short-term events -- such as individual storms -- cannot be accurately forecast more that a few days in advance, so use caution if using this outlook for applications -- such as crops -- that can be affected by such events. "Ongoing" drought areas are approximated from the Drought Monitor (D1 to D4). For weekly drought updates, see the latest Drought Monitor map and text. NOTE: the green improvement areas imply at least a 1-category improvement in the Drought Monitor intensity levels, but do not necessarily imply drought elimination.

Summary

- Conditions deteriorating state-wide
 - 100% of NE classified as "Abnormally Dry"
 - Almost 50% of state is in "Severe Drought" (D2)
 - "Extreme Drought" (D3) introduced into sw NE 6/13
- Streamflow forecasts are again belownormal into the Platte Basin
 - Current projections are less than 50% of normal
- Little optimism in the outlooks





National Drought Mitigation Center

University of Nebraska-Lincoln

The National Drought Mitigation Center (NDMC) helps people and institutions develop and implement measures to reduce societal vulnerability to drought. The NDMC, based at the University of Nebraska–Lincoln, stresses preparation and risk management rather than crisis management.

What is Drought?

An overview of drought • Climographs • Historical Palmer Drought Index maps and graphs • Drought and El Niño • The Dust Bowl

Planning for Drought

How (and why) to plan for drought • The 10-Step Planning Process • Directory of drought planning contacts

Monitoring Drought

How to select monitoring tools • The SPI, the U.S. Drought Monitor, and links to tools elsewhere on the web

Understanding Your Risk

Understanding drought's impacts · Current and historical drought impacts in the United States and around the world

Mitigating Drought

Putting a drought plan together • Existing drought plans and studies • Drought mitigation tools/initiatives • Water conservation

About the NDMC
Contact Information
What's New
Site Map
Search the Site
Drought Network News
Publications

http://drought.unl.edu/



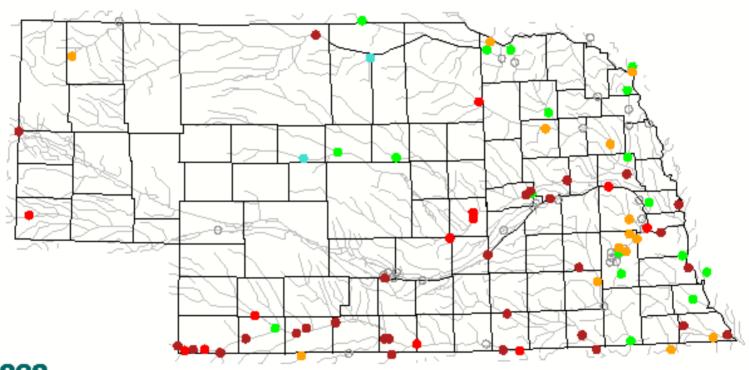
For Media

Other Drought-related Sites U.S. Drought Monitor

Interim National Drought Council

Map of 7-day average streamflow compared To historical streamflow for the day of year

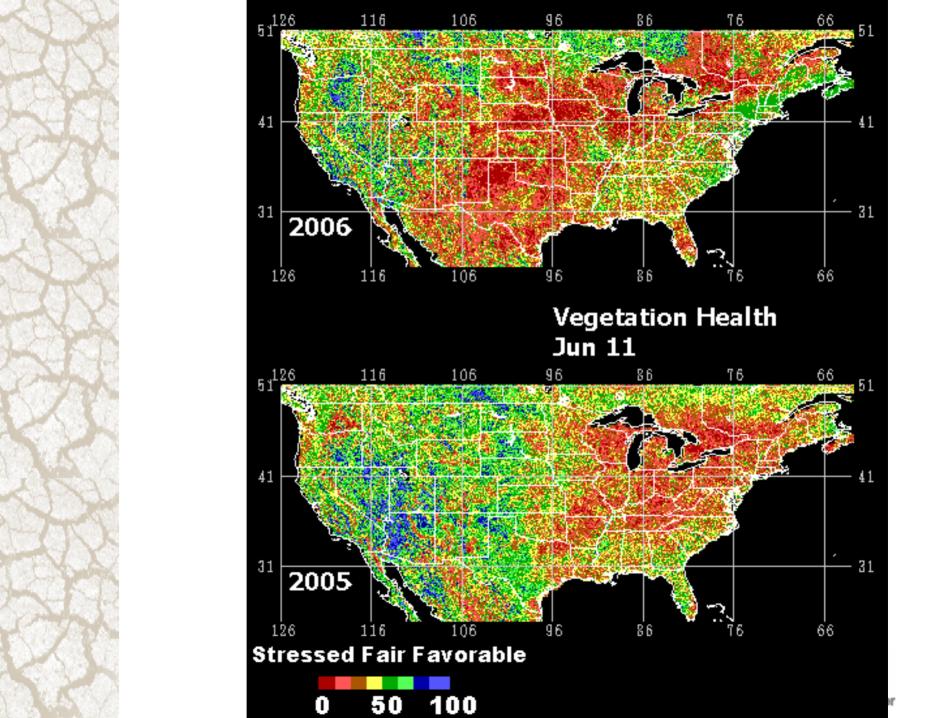
Hednesday, June 14, 2006

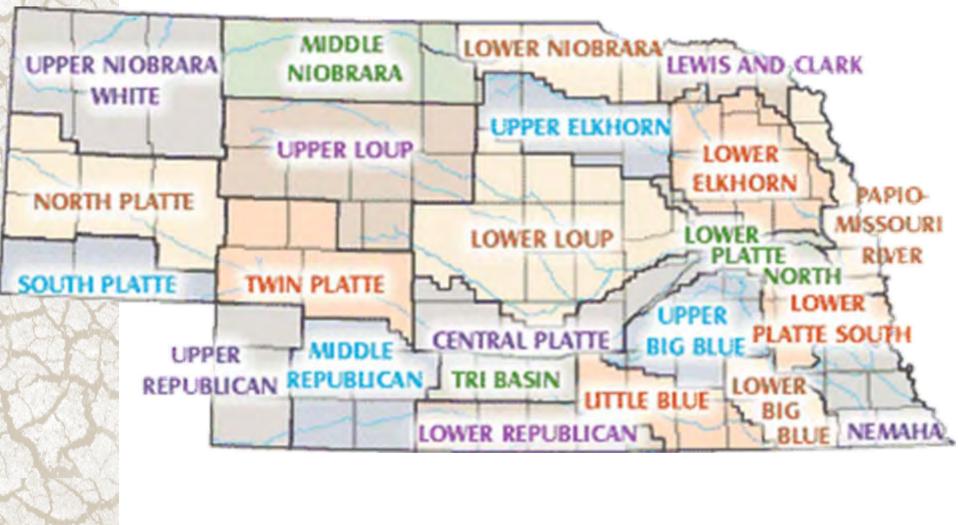




Explanation - Percentile classes							
		_	•			•	0
Low	<10	10-24	25-75	76-90	>90	High	Not-ranked
	Much below normal	Below normal	Normal	Above normal	Much above normal		

Drought Mitigation Center





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