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US Army Corps of Engineers
BUILDING STRONG
Northwestern Division



Missouri River Basin Water Management Monthly Conference Calls Press Kit



**US Army Corps
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Northwestern Division

Colonel Anthony C. Funkhouser

Commander and Division Engineer



Colonel Anthony C. Funkhouser assumed command of the Northwestern Division, U.S. Army Corps of Engineers, on July 27, 2012.

In this position, he oversees an annual program of more than \$3 billion in civil works, environmental restoration, and military construction in more than a dozen states, primarily within the Columbia and Missouri river basins.

As Division Commander, he is responsible for providing guidance and direction to five operating district commands located in Portland, Ore., Seattle and Walla Walla, Wash., Kansas City, Mo., and Omaha, Neb., with a combined professional workforce of nearly 4,800. Key missions include support to military installations and civilian communities throughout the region, managing the nation's water resources infrastructure for economic growth and environmental sustainability, timely response to natural disasters, and strengthening national security.

Prior to his arrival at Northwestern Division, Col. Funkhouser served as Chief, Joint Capabilities Division (J8) on the Joint Staff, Washington D.C. His earlier assignments included serving as Commander, Afghanistan Engineer District-South where he was responsible for planning, acquisition and construction management of a \$4 billion program in support of the U.S. Forces-Afghanistan mission; Commander of Southwestern Division, U.S. Army Corps of Engineers, Dallas, Texas, supervising a \$3 billion program of engineering and construction services, including disaster response, to seven states through four district offices. Col. Funkhouser also spent three years as Commander of the Corps' Tulsa District office and served as Chief of Staff at the U.S. Army Engineer School, Fort Leonard Wood, Mo.

Numerous combat and operational positions of leadership include service as Platoon Leader, Executive Officer and Battalion Logistics Officer, 317th Engineer Battalion (Corps), Eschborn, Germany; Assistant Operations Officer and Assistant Brigade Engineer, 17th Engineer Battalion, 2nd Armored Division, Fort Hood, Texas; Assistant Division Engineer, 1st Cavalry Division (Operation Desert Shield/Desert Storm); Commander, D Company and B Company, 8th Engineer Battalion, 1st Cavalry Division (Operation Intrinsic Action), Fort Hood and Kuwait; Regimental Engineer, 11th Armored Cavalry Regiment, Fort Irwin; Executive Assistant to the Commanding General, III Corps and Fort Hood; Battalion Executive Officer, 91st Engineer Battalion, Fort Hood; Chief of Doctrine, U.S. Army Engineer School, Fort Leonard Wood; and Commander, 5th Engineer Battalion (Corps) (Operation Iraqi Freedom I).

Colonel Funkhouser earned a bachelor's degree in civil engineering from the U.S. Military Academy and holds a master's degree in engineering management from the University of Missouri-Rolla, and a master's of Strategic Studies from the U.S. Army War College. His military education includes the U.S. Army Command and General Staff College, Advanced Military Studies Program, and the U.S. Army War College. He is a licensed professional engineer in the Commonwealth of Virginia.

His awards and decorations include the Defense Superior Service Medal, Legion of Merit, Bronze Star Medal with "V" Device and oak leaf cluster, six awards of the Meritorious Service Medal, six awards of the Army Commendation Medal, five awards of the Army Achievement Medal, the Combat Action Badge, and the Joint Staff Identification Badge. He has also been awarded the Silver de Fleury and the Order of Saint Barbara Medallions.



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Omaha District

Col. Joel R. Cross Commander, Omaha District



Col. Joel R. Cross became the Commander of the Omaha District, U.S. Army Corps of Engineers, July 31, 2012.

He oversees a more than \$1 billion program spread over 1,200 military construction projects in eight states, civil works projects in nine states, and environmental restoration projects in 41 states. The Omaha District workforce of about 1,300 civilian men and women contribute to the operation of six mainstem dams on the Missouri River, as well as 21 tributary dams for congressionally-authorized purposes. The district also provides regulatory and real estate services that benefit the Nation. Within the 700,000- square-mile boundary of the Omaha District, Cross also oversees the design and construction of facilities for the Army and Air Force, the cleanup of hazardous, toxic and radioactive waste sites for the Department of Defense and the Environmental Protection Agency.

He previously served in the Omaha District from May 2005 to June 2007 as Deputy Commander and Chief of Staff, assisting the then Commander in executing a \$550 million budget.

Cross comes to the district from a tour of duty in Iraq where he served as the lead engineer for the Office of Security Cooperation in Baghdad. He oversaw an \$800 million construction program focused on building necessary infrastructure for Iraq's Ministries of Interior and Defense.

Cross received his commission as a 2nd Lieutenant from the University of Vermont in 1990. He entered federal service in Fort Campbell, Ky., later that year where he served in the 326th Engineer Battalion, 101st Airborne Division, Air Assault. His numerous military assignments include tours of duty in Germany, Missouri, Texas, Washington, D.C., Rhode Island, Virginia, Nebraska and three tours in Iraq. During his career he has served in various command and staff roles from platoon leader through battalion commander.

Born in Danvers, Mass., in 1966, Cross grew up in rural Vermont. He graduated from Lamoille Union High School in 1984 and went on to earn a bachelor's degree in Electrical Engineering from the University of Vermont in 1990. In 2001, he received a masters of arts degree in National Security and Strategic Studies from the Naval War College, in 2003, he received a master's of science degree in Engineering Management and Industrial Engineering from the University of Alabama and in 2011 he received a master's of science degree in National Security and Strategic Resourcing from the National Defense University.

He is an active member in the Society of American Military Engineers and is a registered Project Management Professional since 2007.



**US Army Corps
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Kansas City District

COL Anthony J. Hofmann, PMP

Commander and District Engineer, Kansas City District



Colonel Anthony J. “Tony” Hofmann enlisted in the U.S. Army in 1984 and graduated from the U.S. Military Academy Preparatory School in 1986. He was commissioned a second lieutenant in the U.S. Army Corps of Engineers after graduating from the U.S. Military Academy at West Point in 1990. Colonel Hofmann holds a Bachelor of Science Degree from the U.S. Military Academy, a Master of Science Degree in Construction Management from Colorado State University and a Master of Science Degree in National Resource Strategy from the Industrial College of the Armed Forces. He is a certified Project Management Professional.

Colonel Hofmann has held a variety of troop assignments, primarily in divisional mechanized combat engineer battalions. He served as a lieutenant in the 10th Engineer Battalion, 3rd Infantry Division in Kitzingen, Germany as well as the 40th Engineer Battalion, 1st Armored Division, in Baumholder, Germany; commanded Alpha

Company as well as Headquarters and Headquarters Company, 4th Engineer Battalion, Fort Carson, Colorado; and was the operations officer in both the 937th Engineer Group and 70th Engineer Battalion, 1st Armored Division, Fort Riley, Kansas. He also served in the Army’s Senior Leader Development Office in Rosslyn, Virginia as the assignment officer for Chemical, Engineer and Military Police colonels.

His combat and operational experience includes Operation Iraqi Freedom supporting the 3rd Infantry and 1st Armored Divisions; Intrinsic Action in Kuwait with 3rd Brigade, 4th Infantry Division; and deployment to Kuwait in support of Task Force 3-77 Armor, 3rd Infantry Division.

This is Colonel Hofmann’s third tour with the U.S. Army Corps of Engineers. From 2006 to 2008 he commanded the Walla Walla District, responsible for the execution of a diverse civil works program over 107,000 square mile area encompassing parts of six states. Earlier he served in the New Orleans District as a project engineer, project manager and Chief of Safety, Security and Occupational Health.

Colonel Hofmann’s military education includes the Engineer Officer Basic and Advanced Courses, and the U.S. Army Command and General Staff College. His awards and decorations include the Bronze Star Medal (two awards), the Army Meritorious Service Medal (five awards), the Army Commendation Medal (four awards, including Valor Device), the Army Achievement Medal (four awards), the Army Good Conduct Medal, the Southwest Asia Service Medal with service star, the Iraq Campaign Medal, the Humanitarian Service Medal, the Medal for the Liberation of Kuwait, the Bronze Order of the DeFleury Medal, the German Armed Forces Efficiency Badge (Silver), Parachutist Badge, Army Staff Identification Badge, Ranger Tab and the Combat Action Badge.



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Northwestern Division



Jody Farhat **Chief, Water Management Division**

Jody Farhat has served as the Chief of the Missouri River Basin Water Management office since May 2009. Her office, which is part of the Corps of Engineers' Northwestern Division, is located in Omaha, Nebraska. She and her staff regulate the six Corps' dams on the main stem of the Missouri River to serve the Congressionally authorized project purposes. Jody has spent the past 22 years of her career working in all aspects of Missouri River Water Management. Prior to coming to the Northwestern Division, she worked in the Hydrologic Engineering Branch of the Corps' Omaha District.

Jody is native of Iowa, and has a bachelor's degree in Civil Engineering from the University of Iowa. She is a Registered Professional Engineer in the State of Nebraska.



**US Army Corps
of Engineers.**

Kevin D. Stamm

Senior Hydraulic Engineer

Since October 2009, Kevin Stamm has served as a senior hydraulic engineer on the Reservoir Regulation Team for the Missouri River Basin Water Management office in the Northwestern Division, U.S. Army Corps of Engineers. As a senior hydraulic engineer, Kevin is involved in the development of daily and monthly Missouri River forecasts, and is responsible for the development of technical guidance for the regulation of the Missouri River Main Stem Reservoir System.

Prior to joining the Missouri River Basin Water Management office, Kevin worked as a hydraulic engineer for eight years in the Hydrologic Engineering Branch of the Corps' Omaha District.

Kevin is a native of Kansas. He holds a bachelor's degree in agricultural engineering from Kansas State and a master's degree in agricultural engineering from Iowa State University. He is a licensed professional civil engineer in the State of Nebraska.



**US Army Corps
of Engineers.**

Joel D. Knofczynski

Hydraulic Engineer

Joel Knofczynski has served as senior Hydraulic Engineer on the Power Production Team of the Missouri River Basin Water Management office since May 2009. He is a member of the team that regulates the six mainstem dams along the Missouri River to serve the eight Congressionally authorized project purposes.

Joel previously worked in the Hydrologic Engineering Branch of the Corps' Omaha District for 20 years.

He is native of Minnesota, and has a bachelor's degree in Civil Engineering from South Dakota State University. He is a Registered Professional Engineer in the State of Nebraska.



Doug Kluck

National Oceanic and Atmospheric Administration Central Region Climate Services Director, Kansas City, Missouri

Doug Kluck worked for the National Weather Service for the last 18 years and served as a research meteorologist, forecast meteorologist, forecast hydrologist and regional hydrologist. For the past eight years he was the Climate Service Program Manager for the Central Region. In this capacity he focused on building key networks and relationships with core partners and groups with climate interests in the Central Region. He works closely with the Regional Climate Centers, state climatologists, tribal colleges and universities, land grant universities and extension services, federal and state governments and non-governmental organizations on a number of issues including informing adaptation, climate data stewardship, building climate change capacity and assessment of climate services needs by sector and community. Kluck serves on the implementation committee for the National Integrated Drought Information System as the lead on education and outreach. In addition, he serves as the climate representative for the Central Region NOAA Regional Collaboration Team. He holds a bachelor's degree in geology and a master's degree in geography from the University of Nebraska.

Dr. Dennis Todey

South Dakota State University
State and Extension Climatologist

Dr. Dennis Todey is the state and extension climatologist for South Dakota. He has a background in climatology, meteorology and agricultural meteorology. He has been at SDSU since 2003.

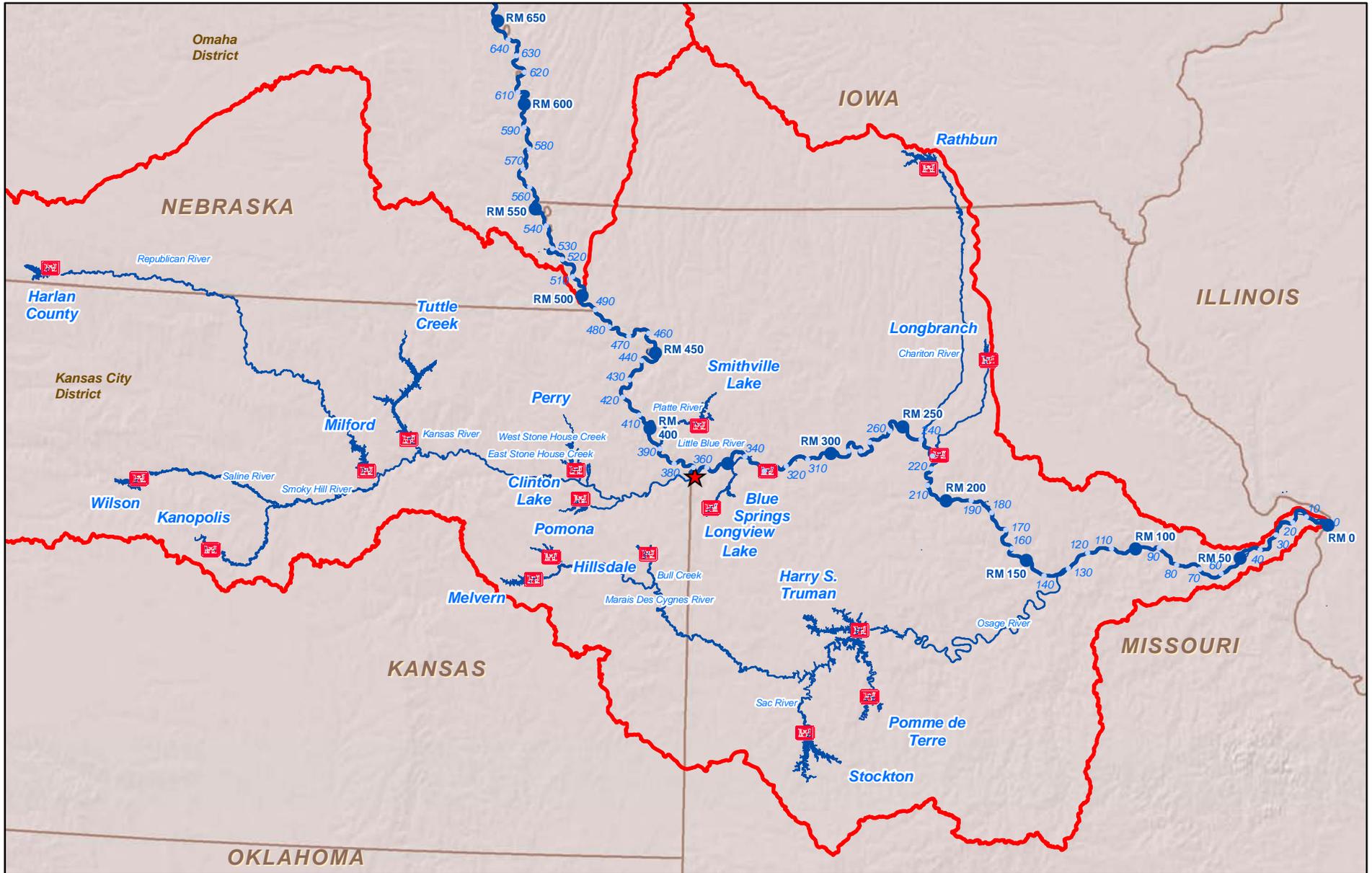
Missouri River Main Stem System

Missouri River Watershed





USACE-NWK Projects



USACE Office Locations



HQ

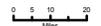


Lake Office; Project Office

NWK, NWO District Boundaries

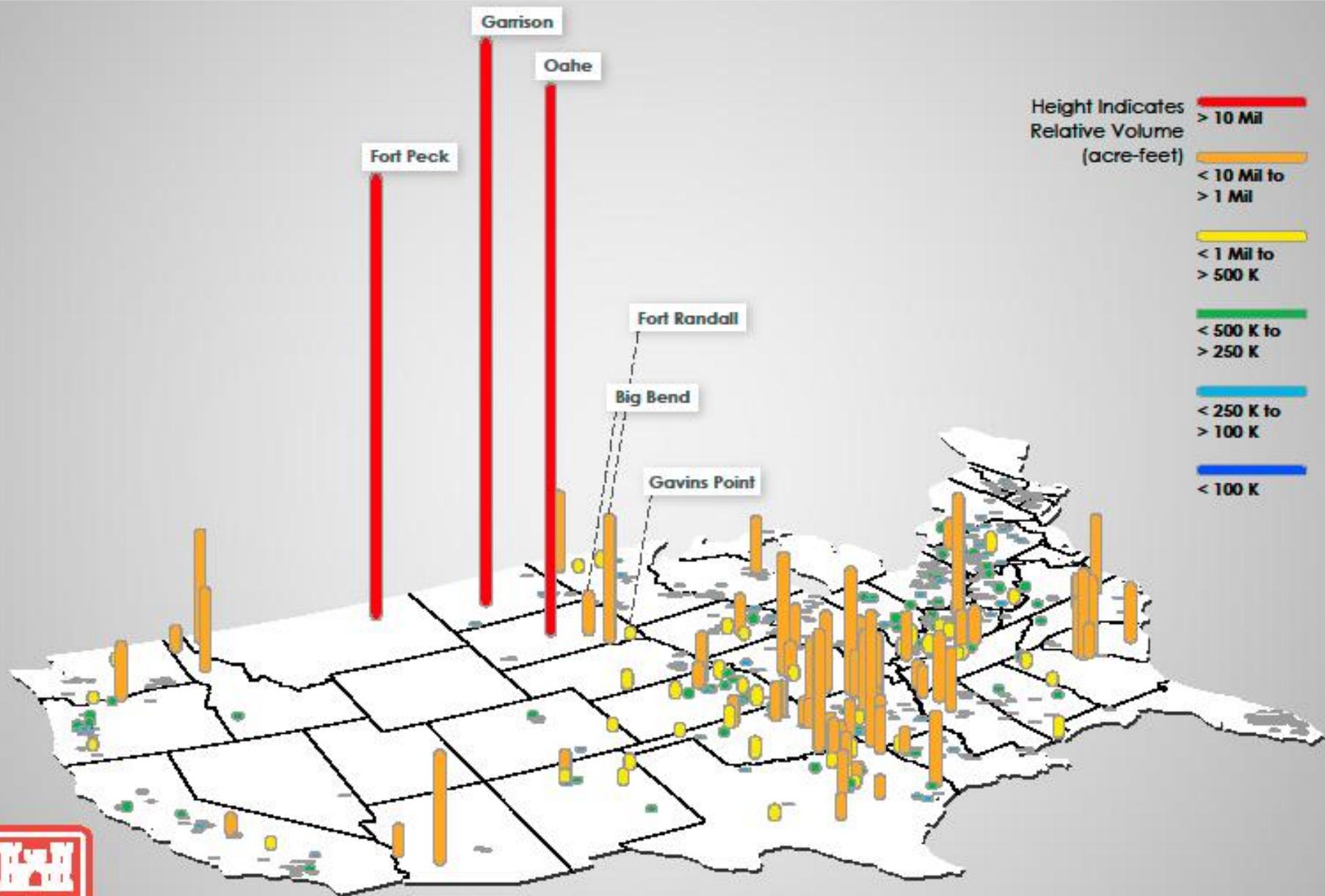


River Miles



DISCLAIMER: While the United States Army Corps of Engineers, hereinafter referred to as USACE, has made a reasonable effort to ensure the accuracy of the map and associated data, it should be explicitly noted that USACE makes no warranty, representation or guarantee, either express or implied, as to the content, accuracy, timeliness or completeness of any of the data provided herein. The USACE, its officers, agents, employees, or contractors shall assume no liability for any mistakes or omissions, or inaccuracies in the information provided regardless of how caused. The USACE, its officers, agents, employees or contractors shall assume no liability for any decisions made or actions taken or not taken by the user of the maps and associated data in reliance upon any information or data furnished here. By using these maps and associated data the user does so without of their own risk and explicitly acknowledges that neither is present or implied or demand of any nature against the USACE, its officers, agents, employees or contractors in any form whatsoever for any damages of any nature whatsoever that may result from or may be caused in any way by the use of the maps and associated data.

Storage Capacity of Corps Reservoirs

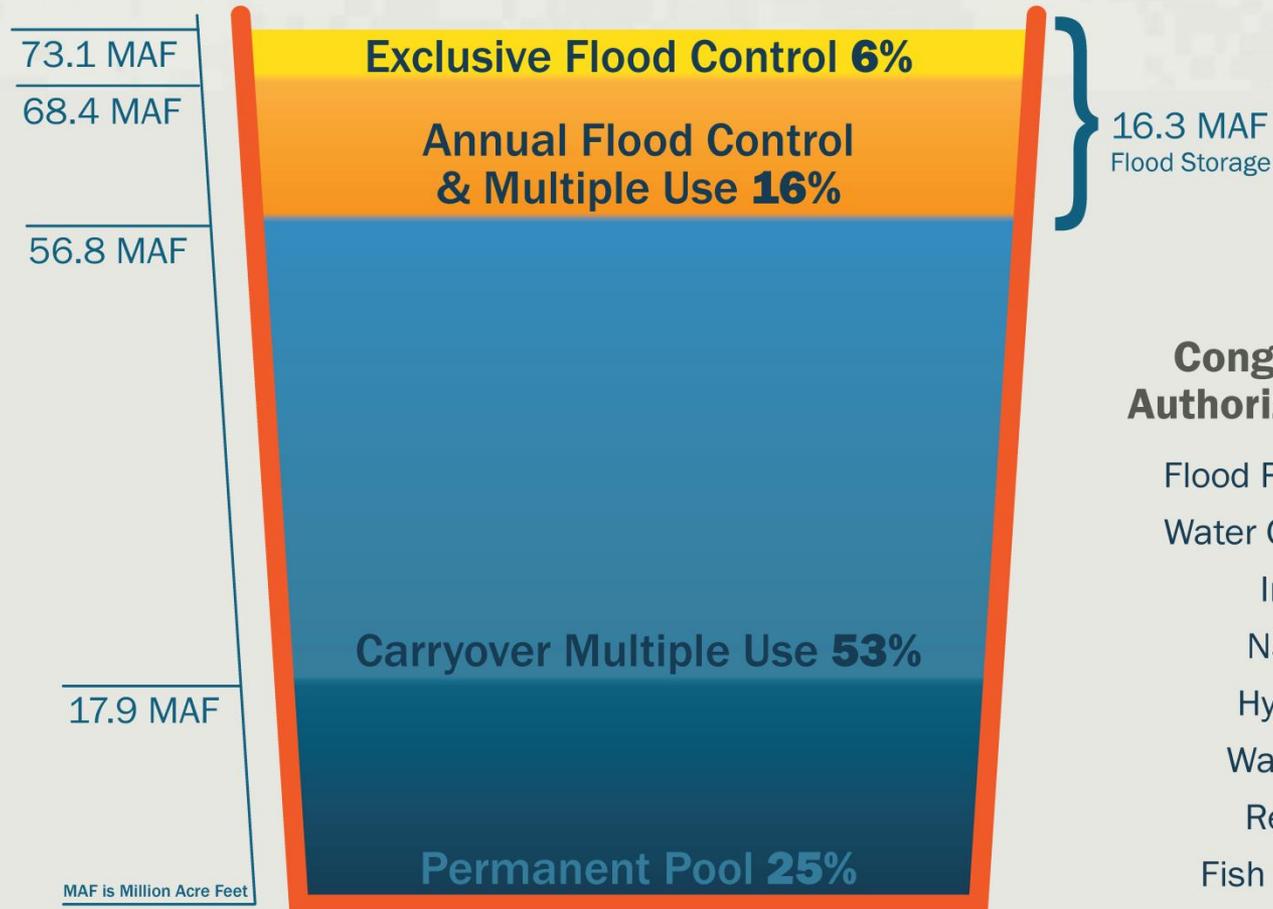




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Missouri River Main Stem Reservoir System

Zones & Allocations of the Total Storage Capacity





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Missouri River Mainstem Reservoir System

Total Percent of System
Flood Control Storage Per Reservoir



Types of Missouri River Basin Runoff



Mountain Snowmelt

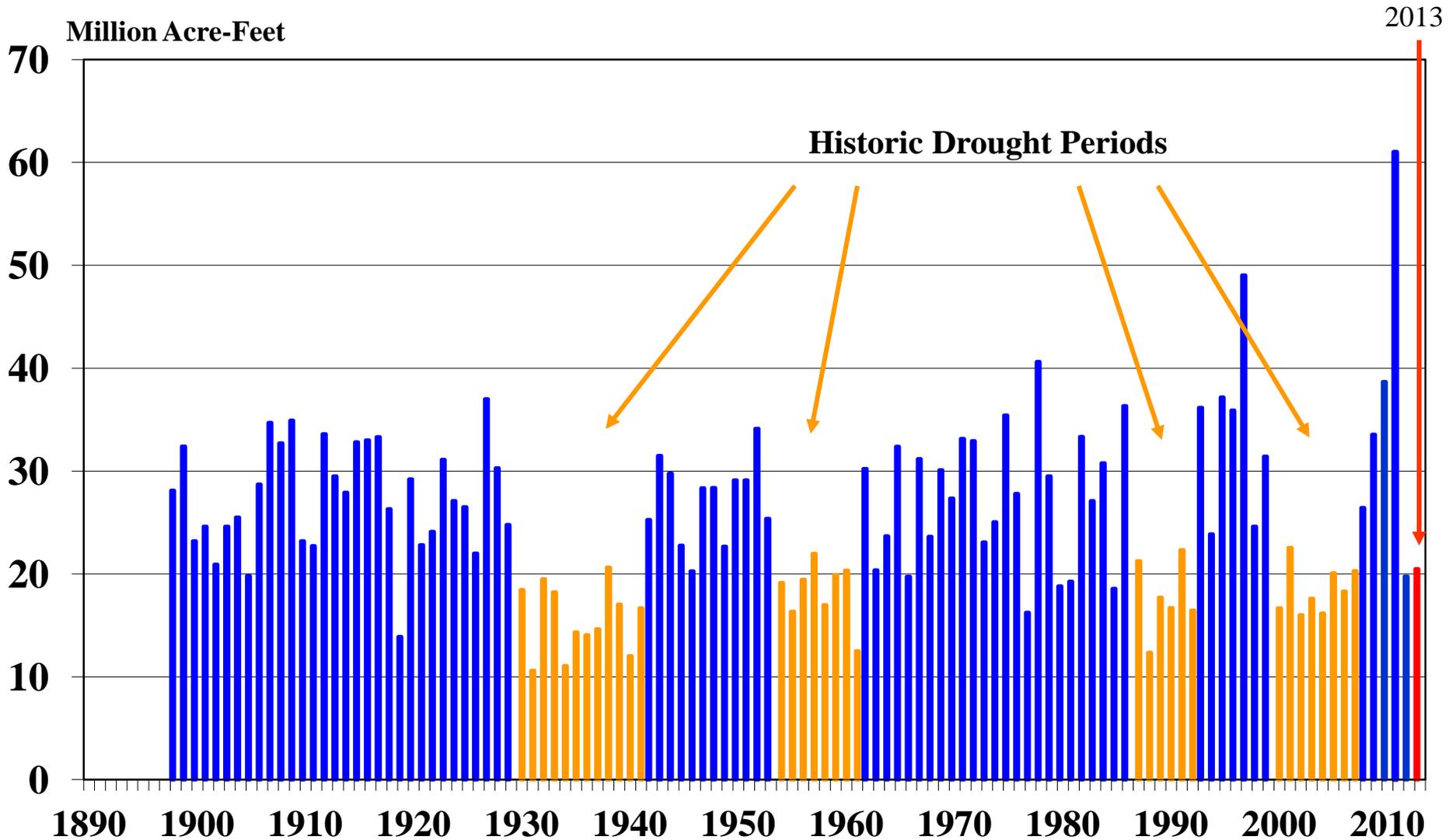


Plains Snowmelt



Rainfall

Missouri River Mainstem System Annual Runoff above Sioux City, IA





Key Points

* **Current Conditions**

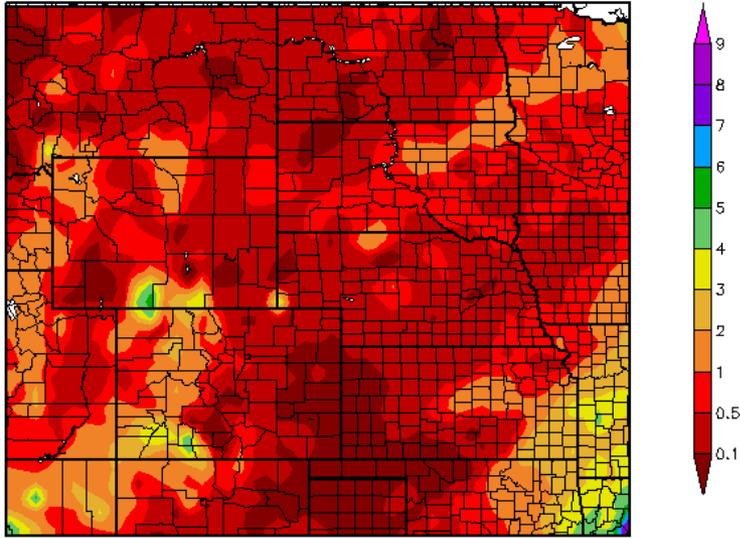
- * ENSO – neutral (no El Nino/La Nina)
- * Mountain snow pack mostly near average
- * Plains snowpack not extensive on reservoirs
- * Warmer on less snow areas – cooler over snowpack

* **Predictions**

- * New Outlooks due this week
- * Precipitation more likely eastern basin – Cooler north
- * ENSO Neutral through the summer
- * Drought conditions lower basin likely to continue

Conditions – Last 30 days

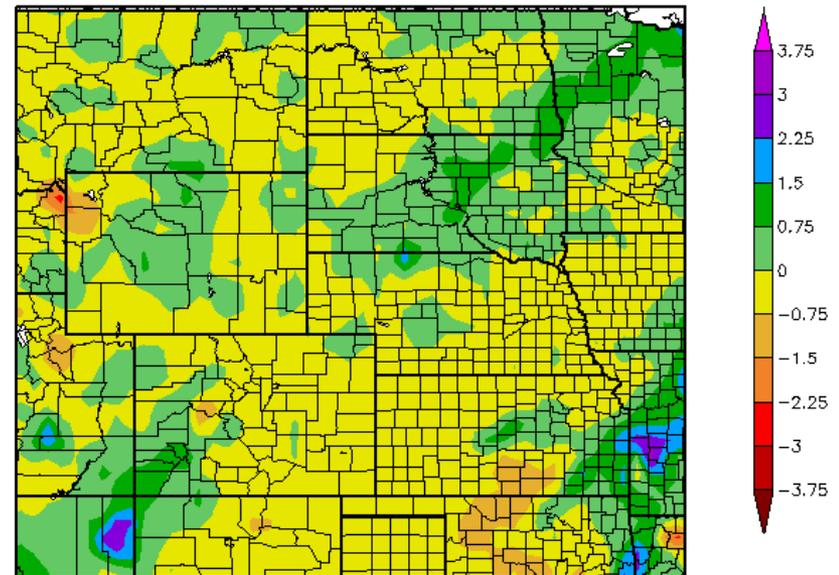
Precipitation (in)
1/12/2013 – 2/10/2013



Generated 2/11/2013 at HPRCC using provisional data.

Regional Climate Center:

Departure from Normal Precipitation (in)
1/12/2013 – 2/10/2013

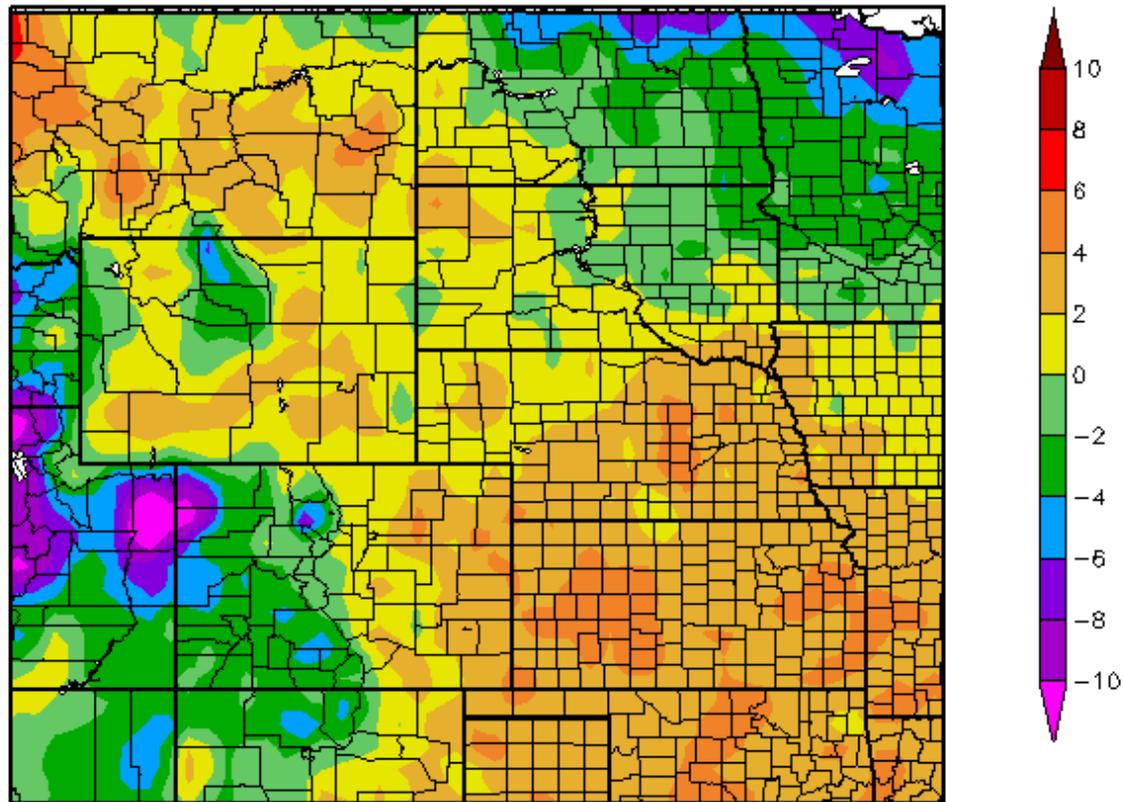


Generated 2/11/2013 at HPRCC using provisional data.

Regional Climate Centers

Conditions – Last 30 days

Departure from Normal Temperature (F)
1/12/2013 – 2/10/2013

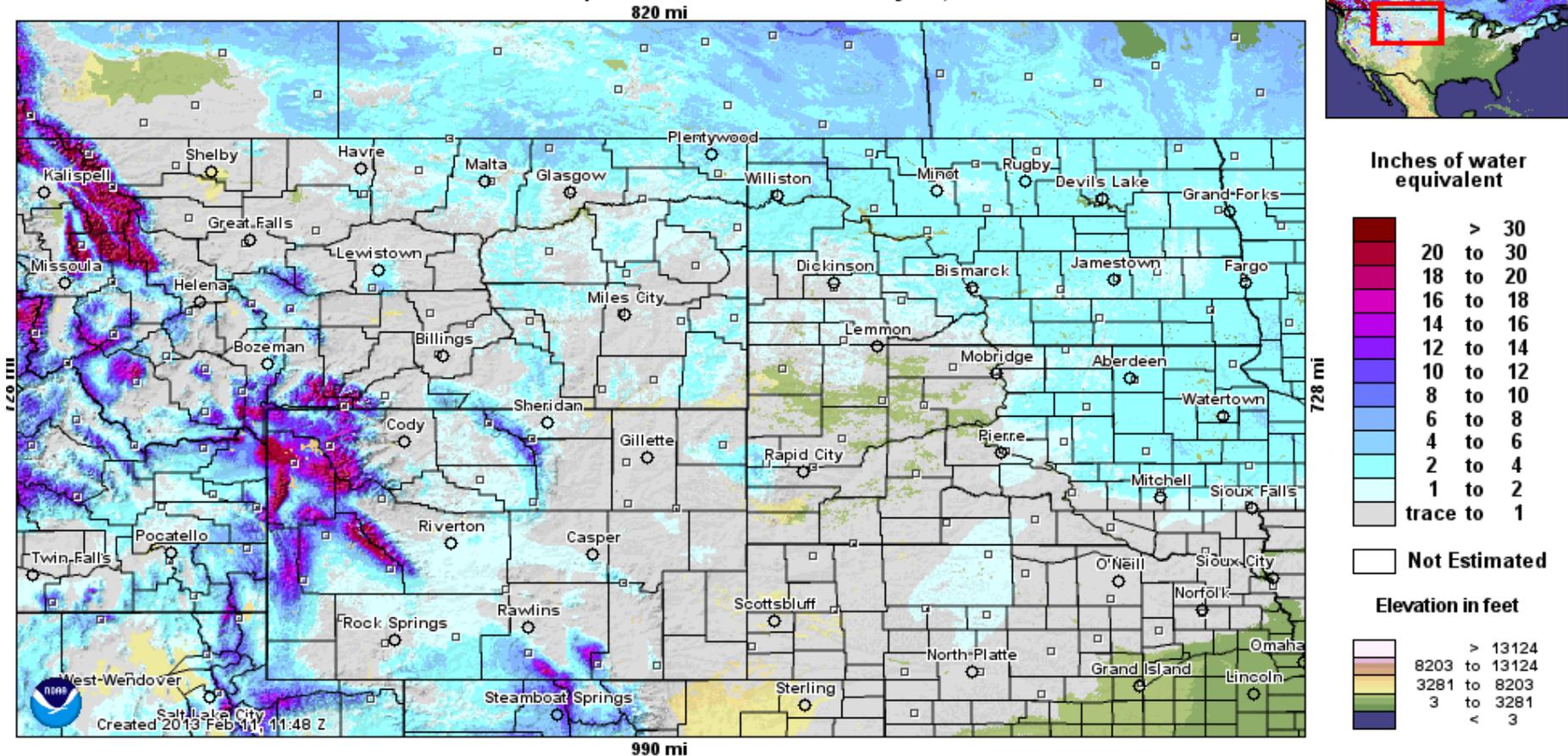


Generated 2/11/2013 at HPRCC using provisional data.

Regional Climate Centers

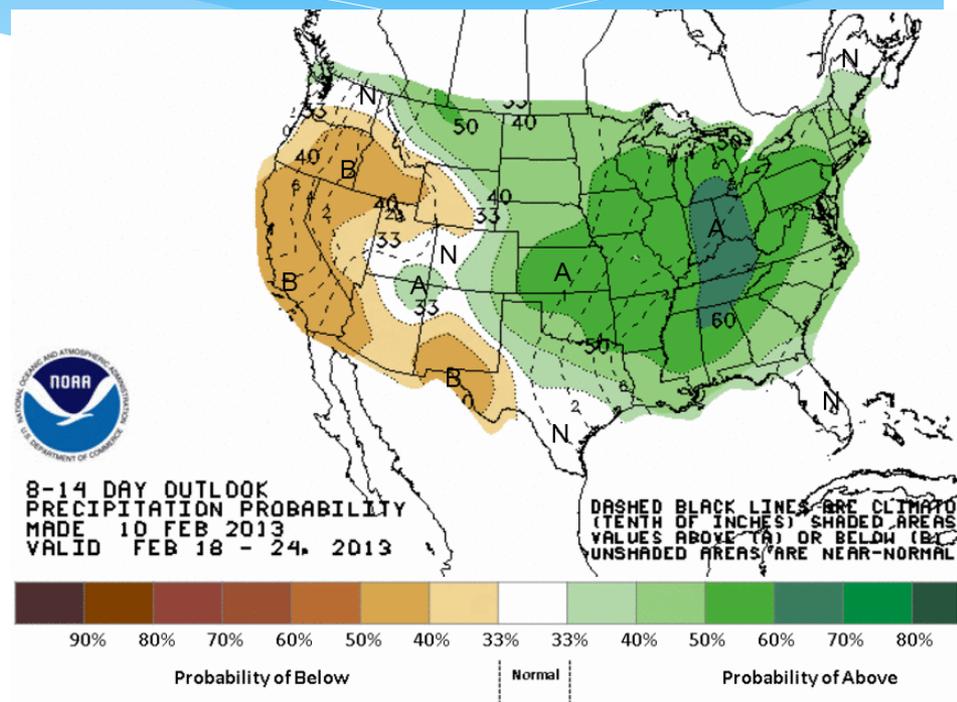
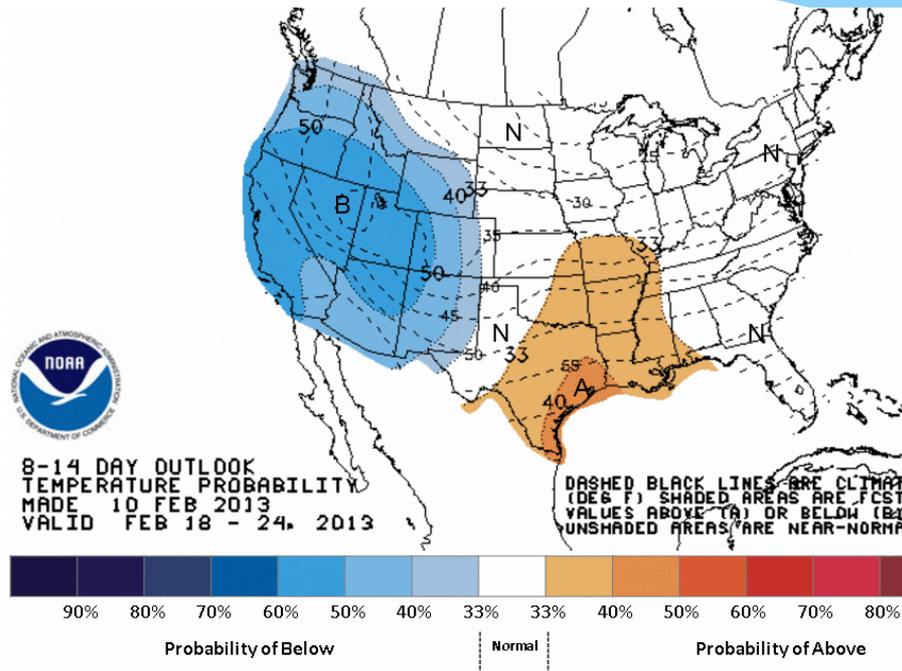
Current Snow Conditions

Modeled Snow Water Equivalent for 2013 February 11, 6:00 Z



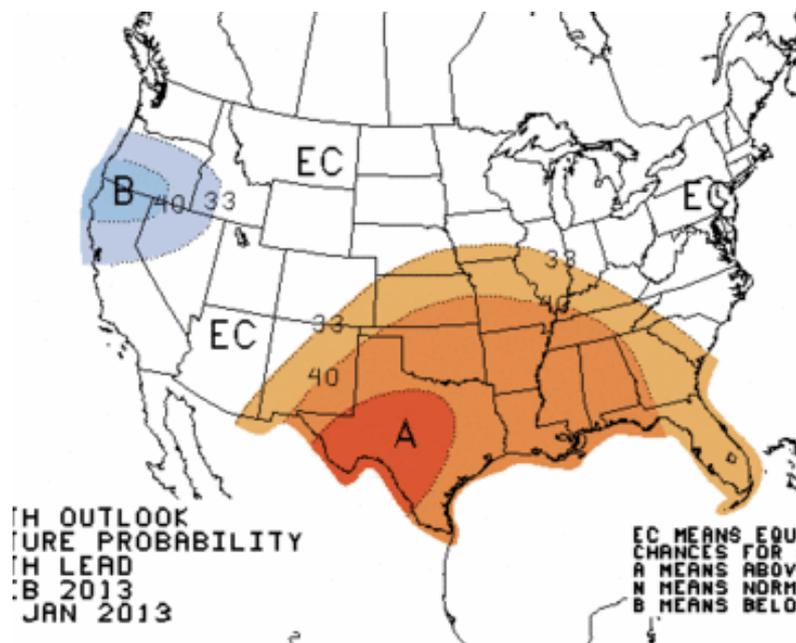
<http://nohrc.noaa.gov/interactive/html/map.html?>

Temperature and Precipitation Probabilities (2/18-2/24)

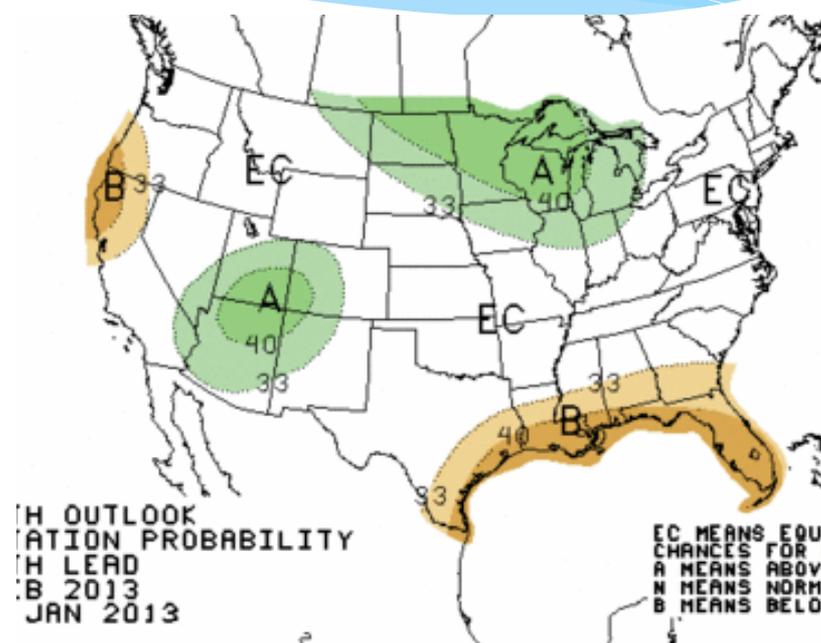


<http://www.cpc.ncep.noaa.gov/>

February Temperature and Precipitation Probabilities



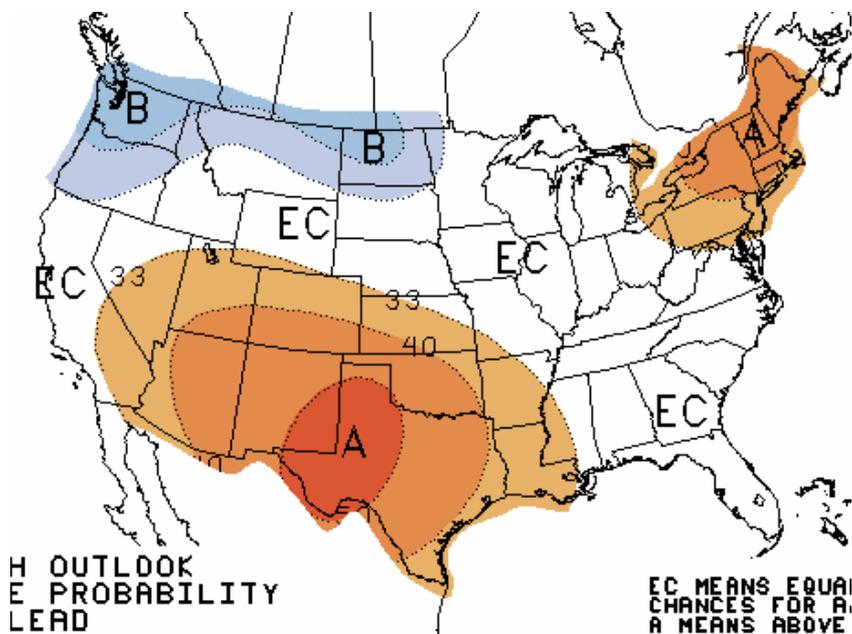
Temperature



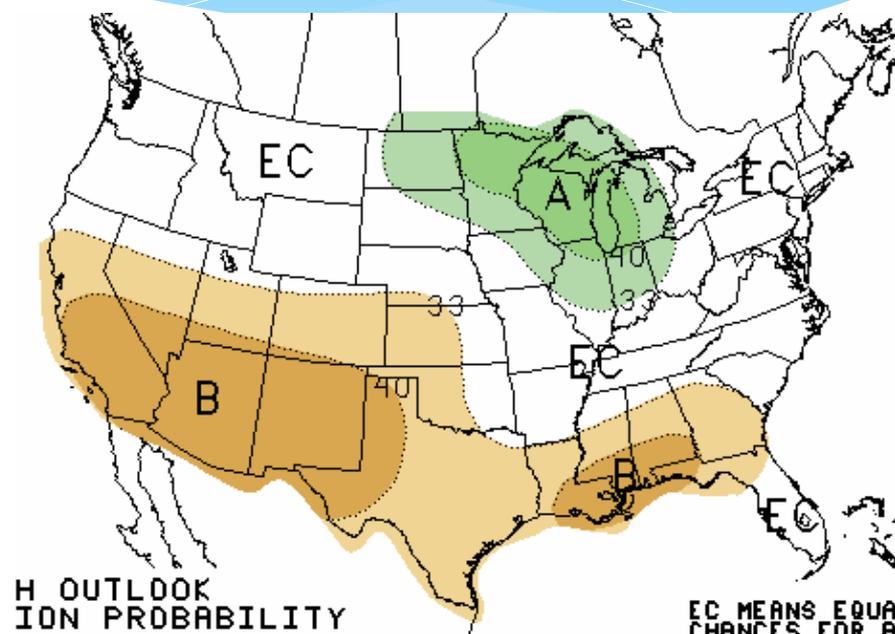
Precipitation

<http://www.cpc.ncep.noaa.gov/products/predictions/30day/>

3 Month Temperature and Precipitation Probabilities (February - April)

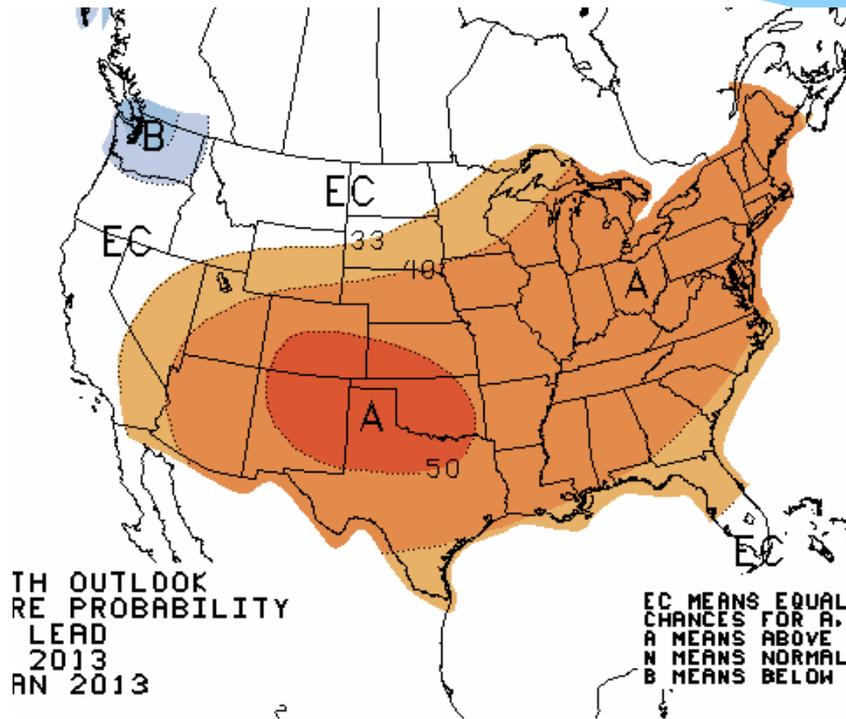


Temperature

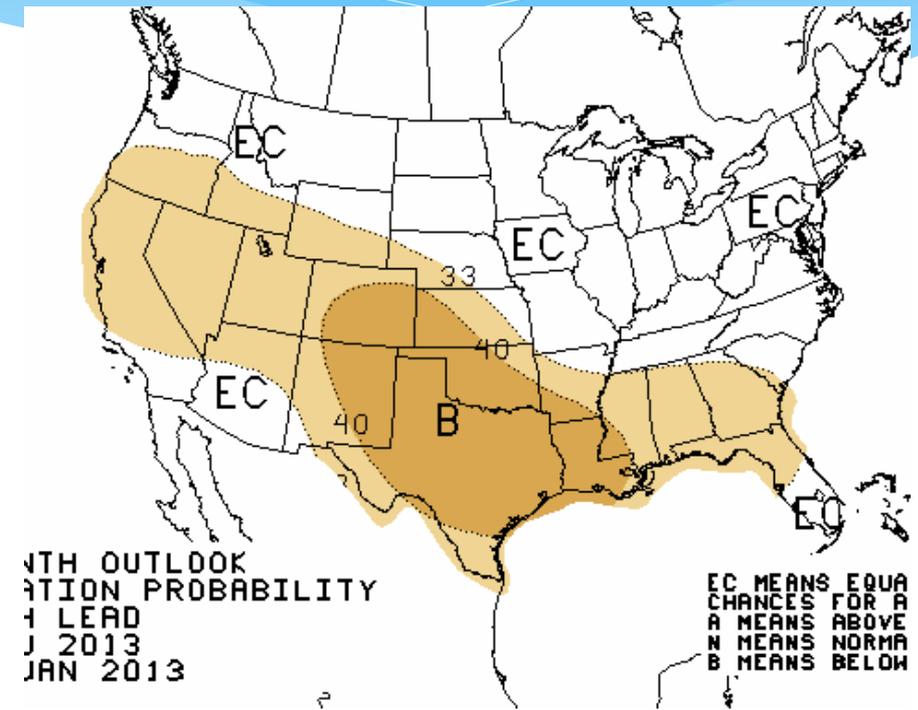


Precipitation

3 Month Temperature and Precipitation Probabilities (April - June)



Temperature



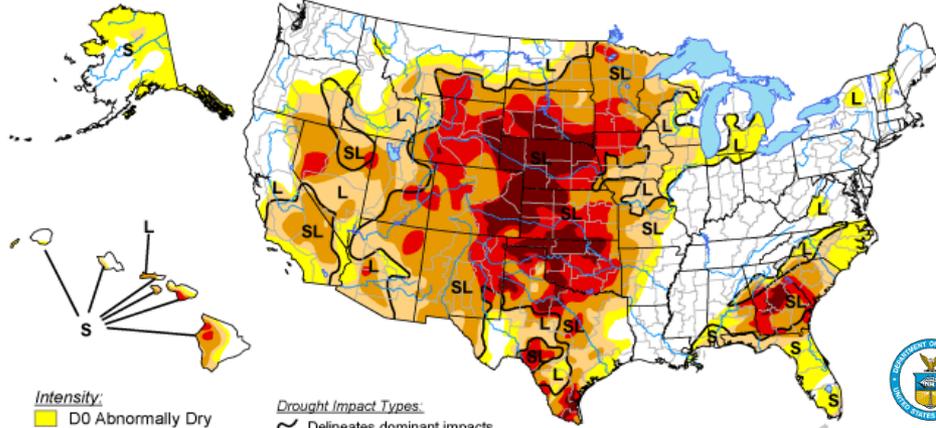
Precipitation

http://www.cpc.ncep.noaa.gov/products/predictions/long_range/seasonal.php?lead=2

Drought Update

U.S. Drought Monitor

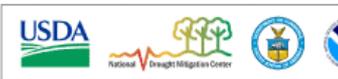
February 5, 2013
Valid 7 a.m. EST



- Intensity:**
- D0 Abnormally Dry
 - D1 Drought - Moderate
 - D2 Drought - Severe
 - D3 Drought - Extreme
 - D4 Drought - Exceptional
- Drought Impact Types:**
- ~ Delineates dominant impacts
 - S = Short-Term, typically <6 months (e.g. agriculture, grasslands)
 - L = Long-Term, typically >6 months (e.g. hydrology, ecology)

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

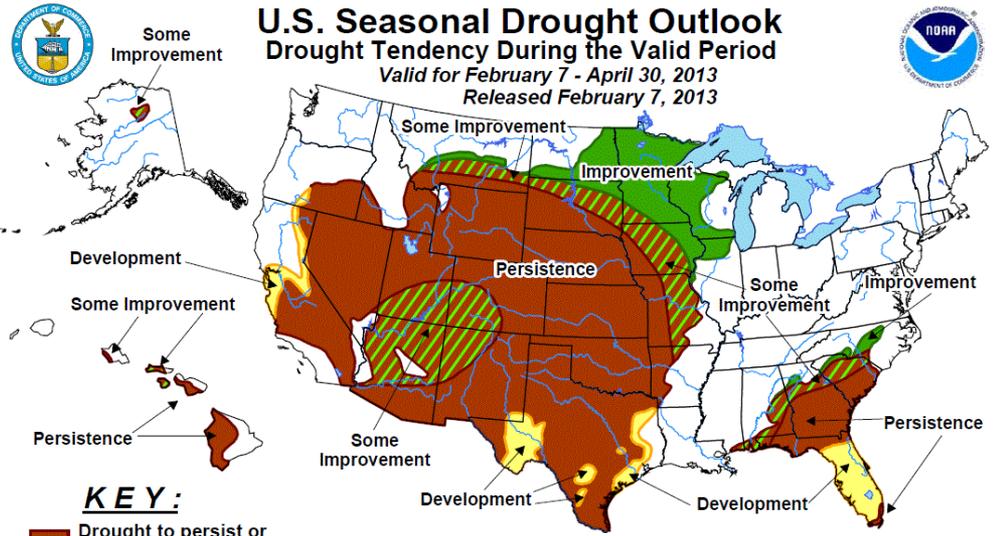
<http://droughtmonitor.unl.edu/>



Released Thursday, February 7,
Author: Michael Brewer/L. Love-Brotak, NOAA/NESDIS

U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period
Valid for February 7 - April 30, 2013
Released February 7, 2013



- KEY:**
- Drought to persist or intensify
 - Drought ongoing, some improvement
 - Drought likely to improve, impacts ease
 - Drought development likely

Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Short-term events -- such as individual storms -- cannot be accurately forecast more than a few days in advance. Use caution for applications -- such as crops -- that can be affected by such events. "Ongoing" drought areas are approximated from the Drought Monitor (D1 to D4 intensity). For weekly drought updates, see the latest U.S. Drought Monitor. 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.