

Water Supply and Climate Update Governor's Drought & Water Supply Advisory Committee

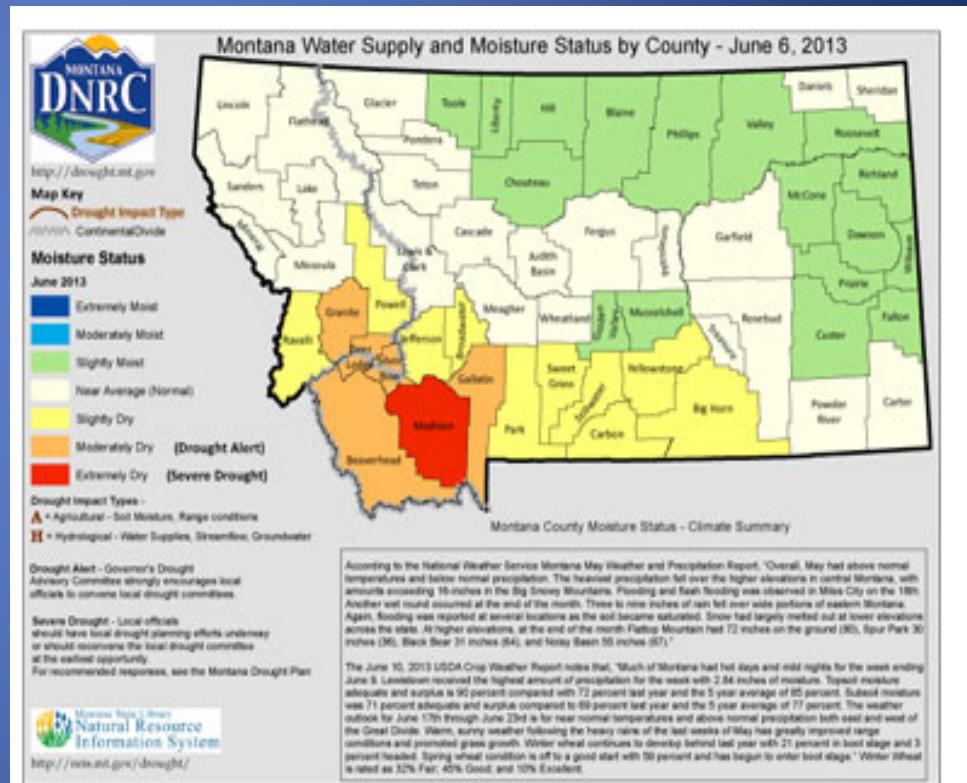
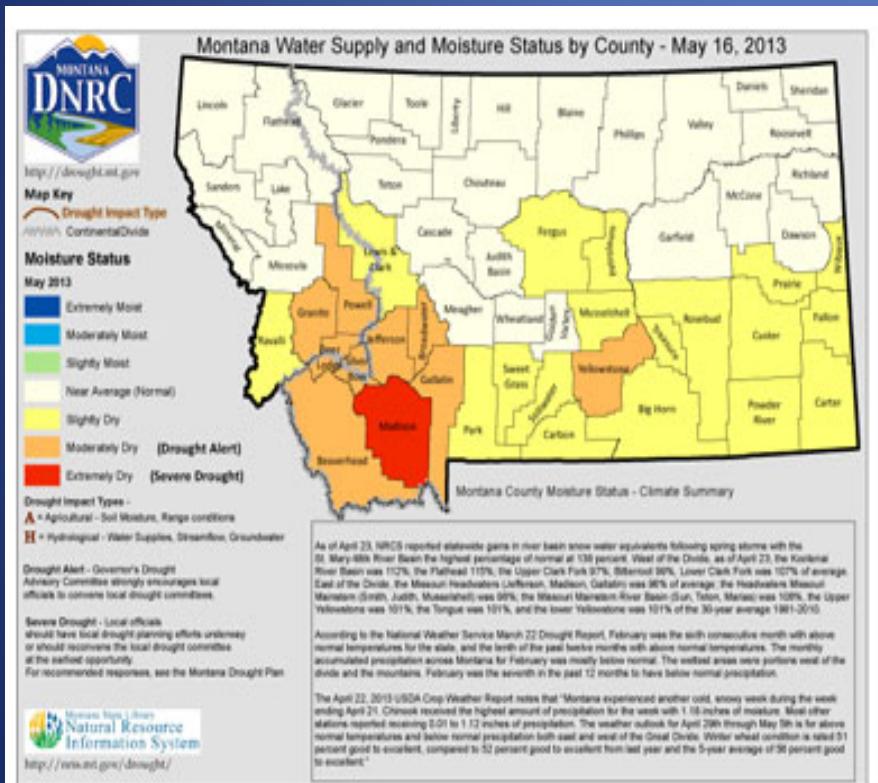
Tim Davis and Jess Aber
DNRC Water Resources
June 18, 2013

West steady – SE,NE, Hi-Line improve

No declines

May 16

June 6

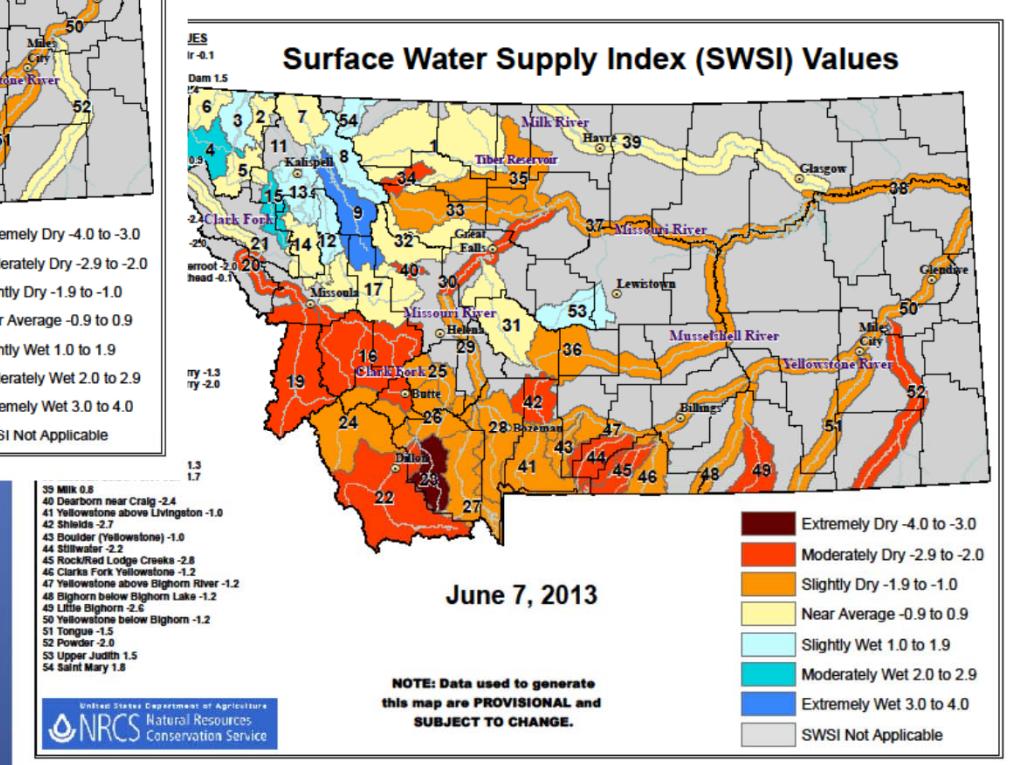
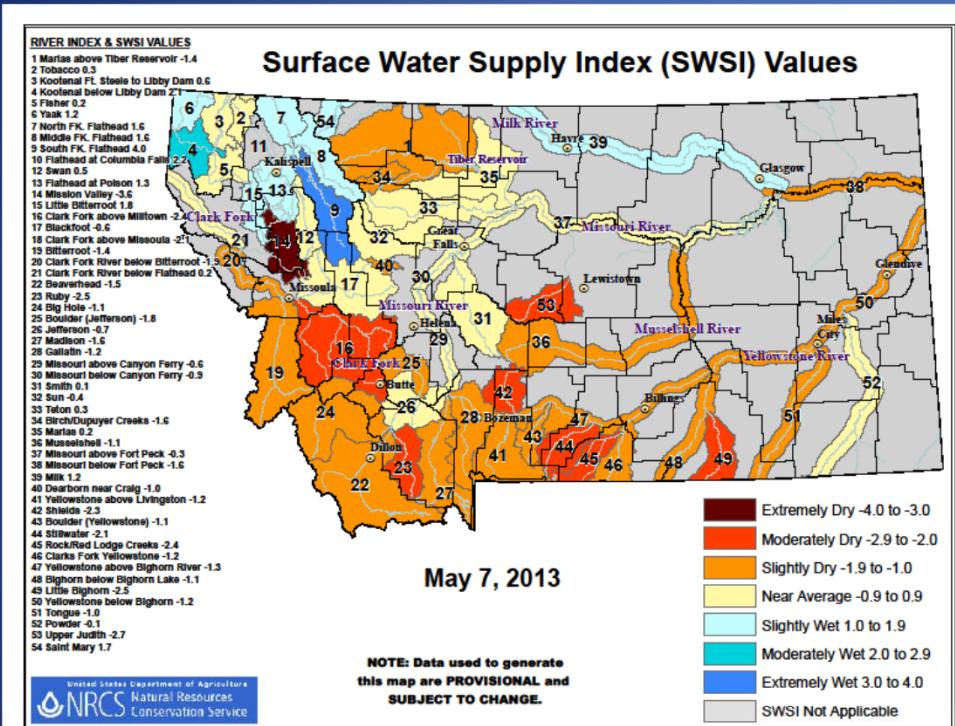


Improved Counties

- Most of Hi-Line
- Most of far east side
- Powell
- Jefferson
- Broadwater
- Fergus
- Petroleum
- Yellowstone
- Golden Valley
- Musselshell
- Rosebud/Treasure

Surface Water Supply Index

May to June



SWSI River Basins

Moderately Dry or worse

West Side

Clark Fk. Bel. Bitterroot

Bitterroot

Clark Fk. above Milltown

Flint / Rock Creeks

East Side

Beaverhead

Ruby (Extremely)

Shields

Stillwater/Rock/Red Lodge

Little Bighorn

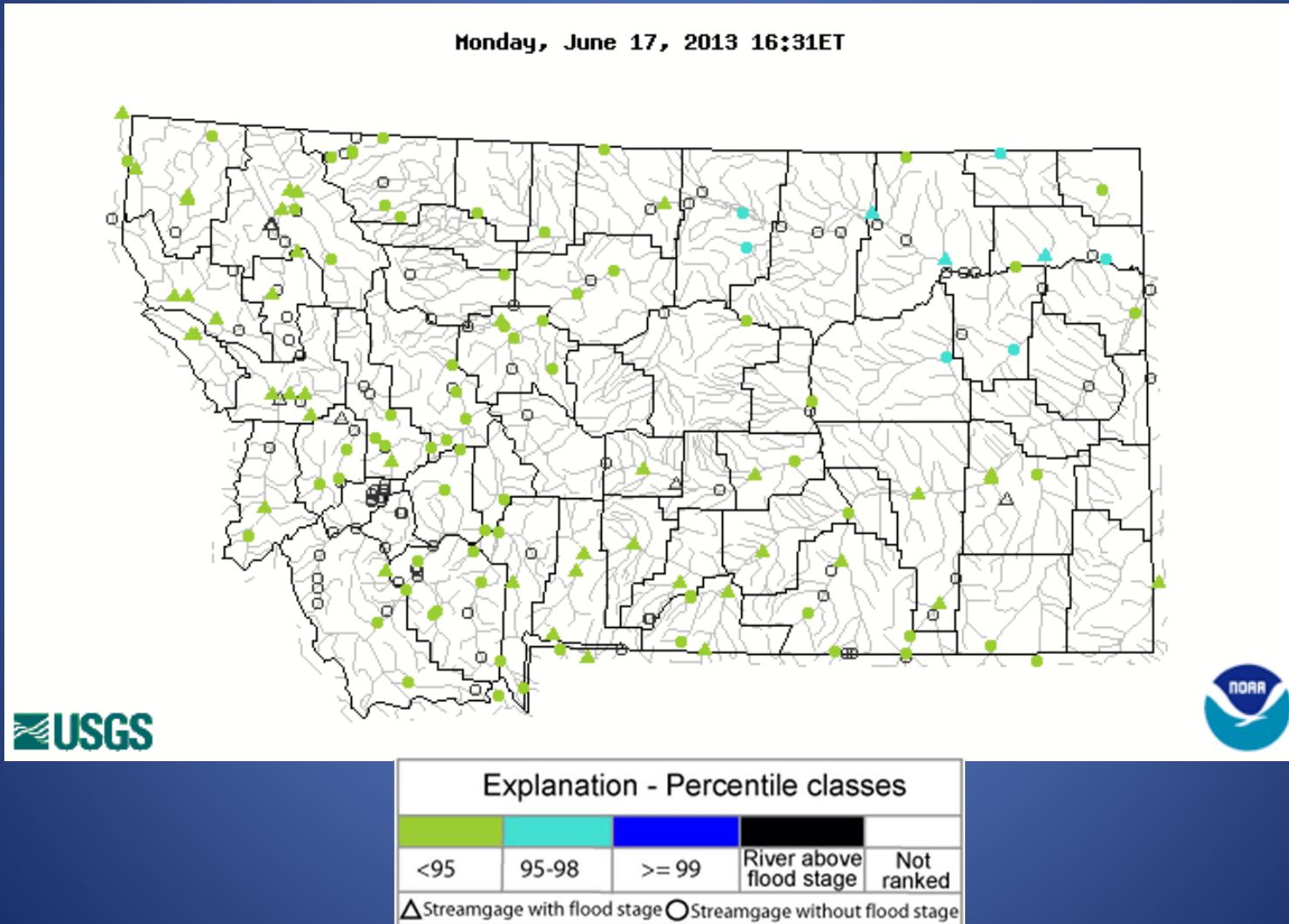
Powder

Birch/Dupuyer Creeks

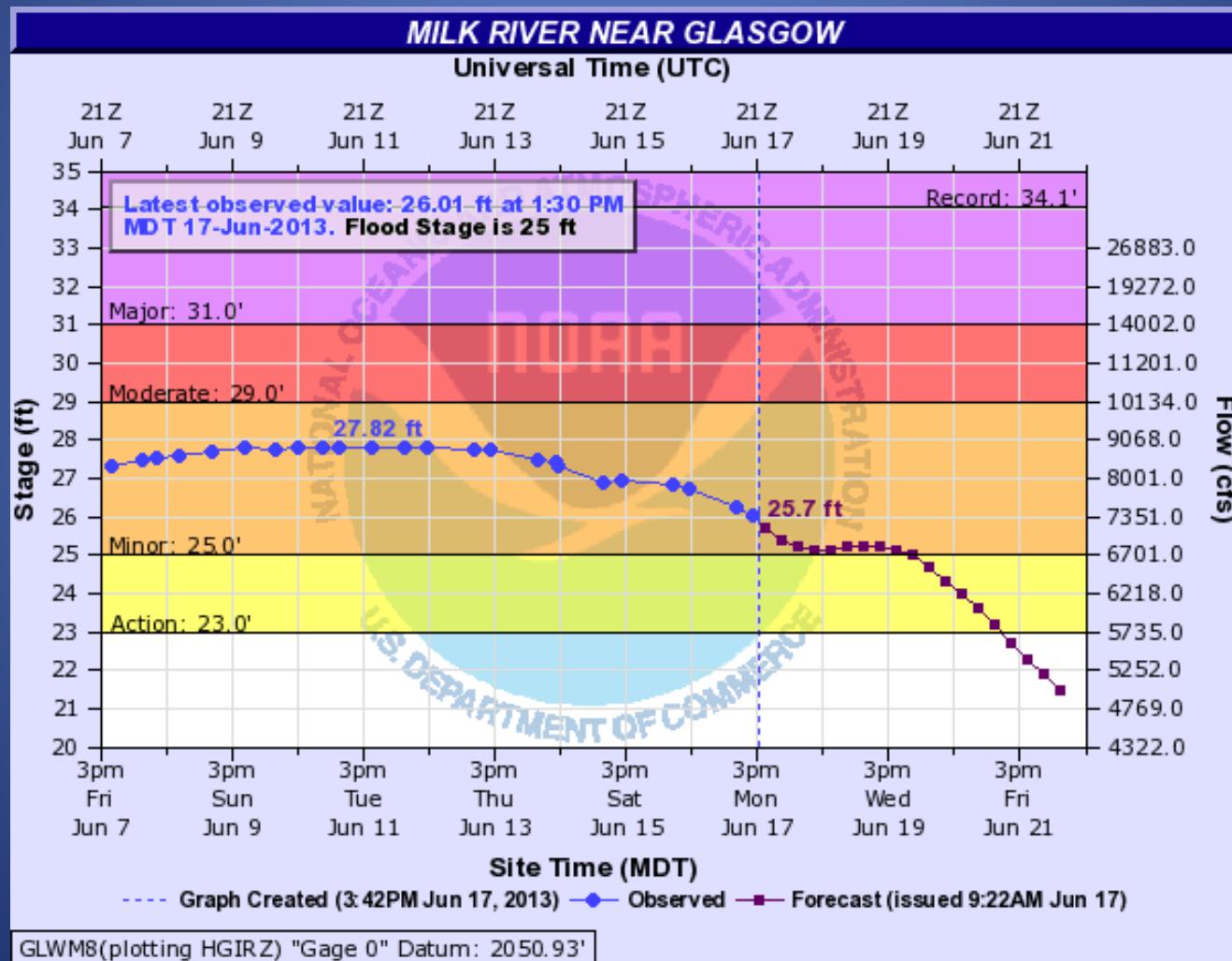
Missouri bel. Canyon Ferry

Powder

June 17th Flood and High Flow conditions

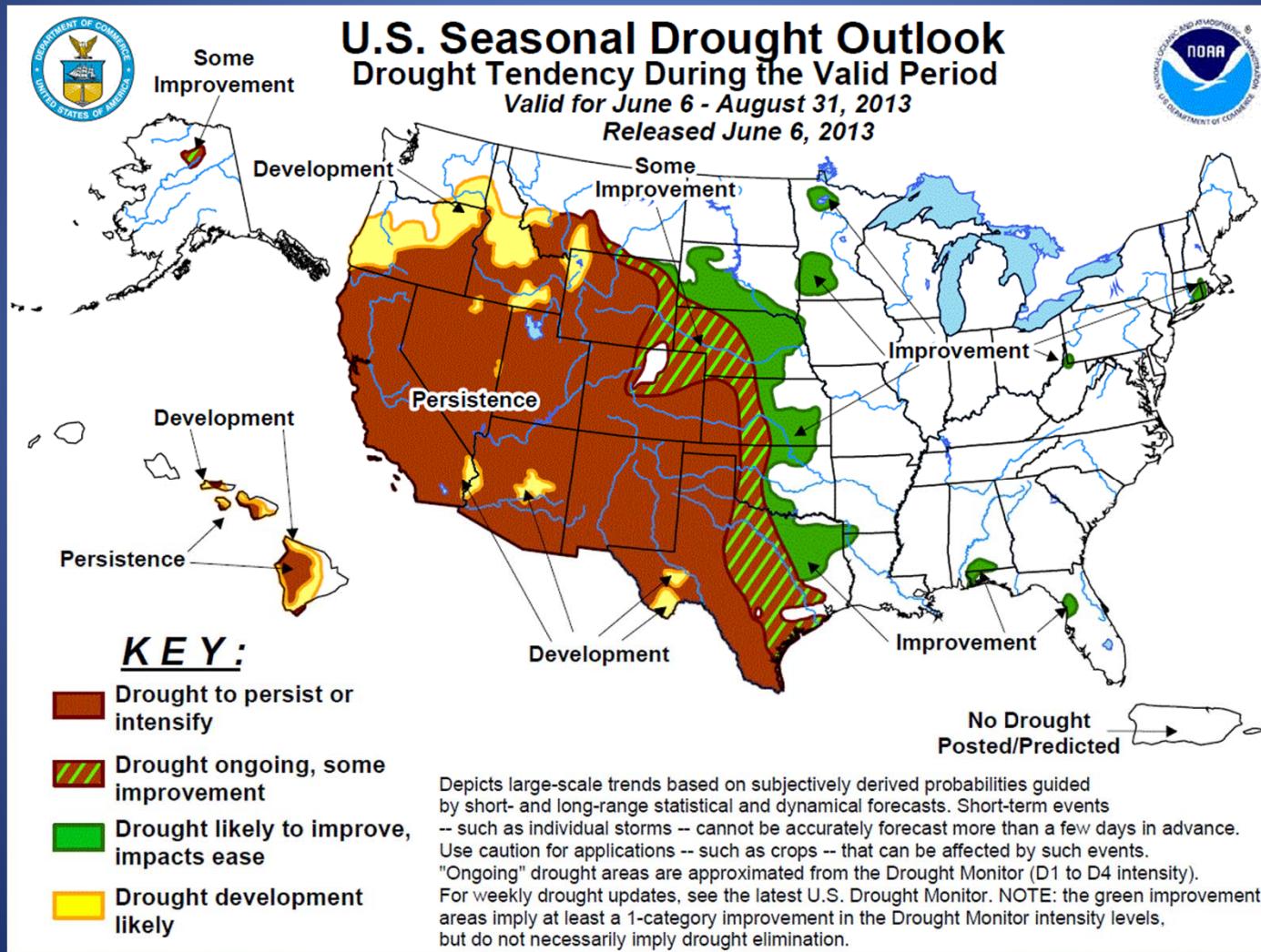


AHPS – Milk River near Glasgow



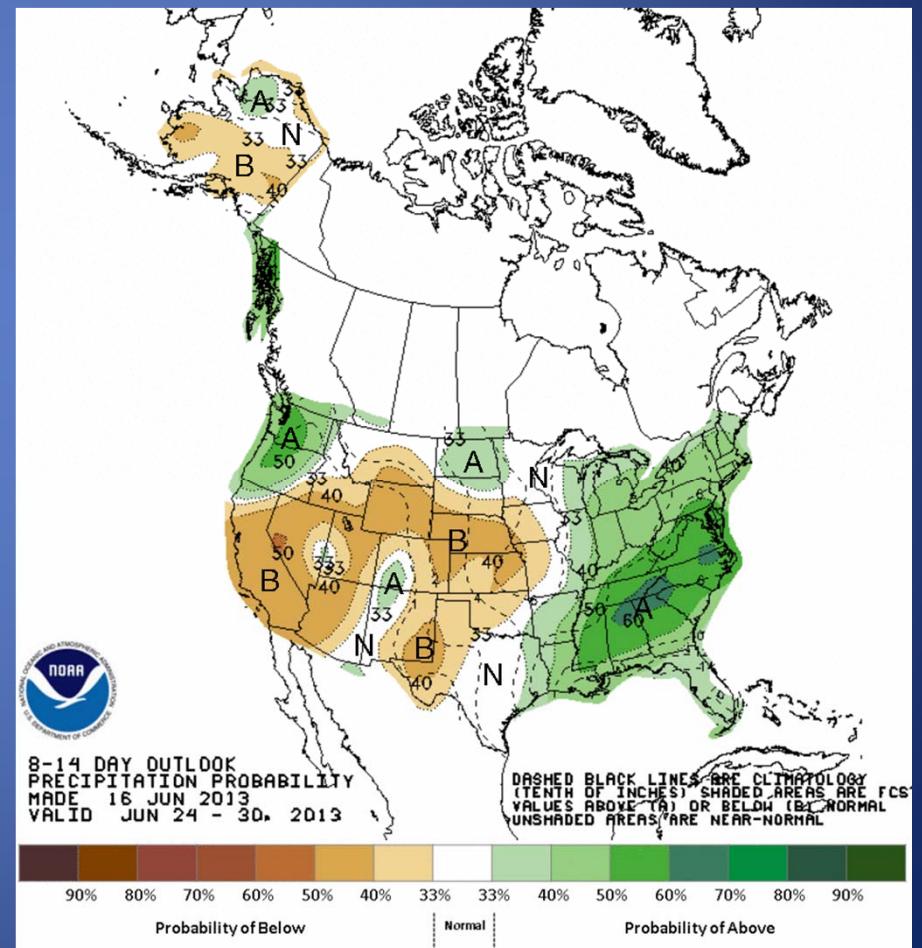
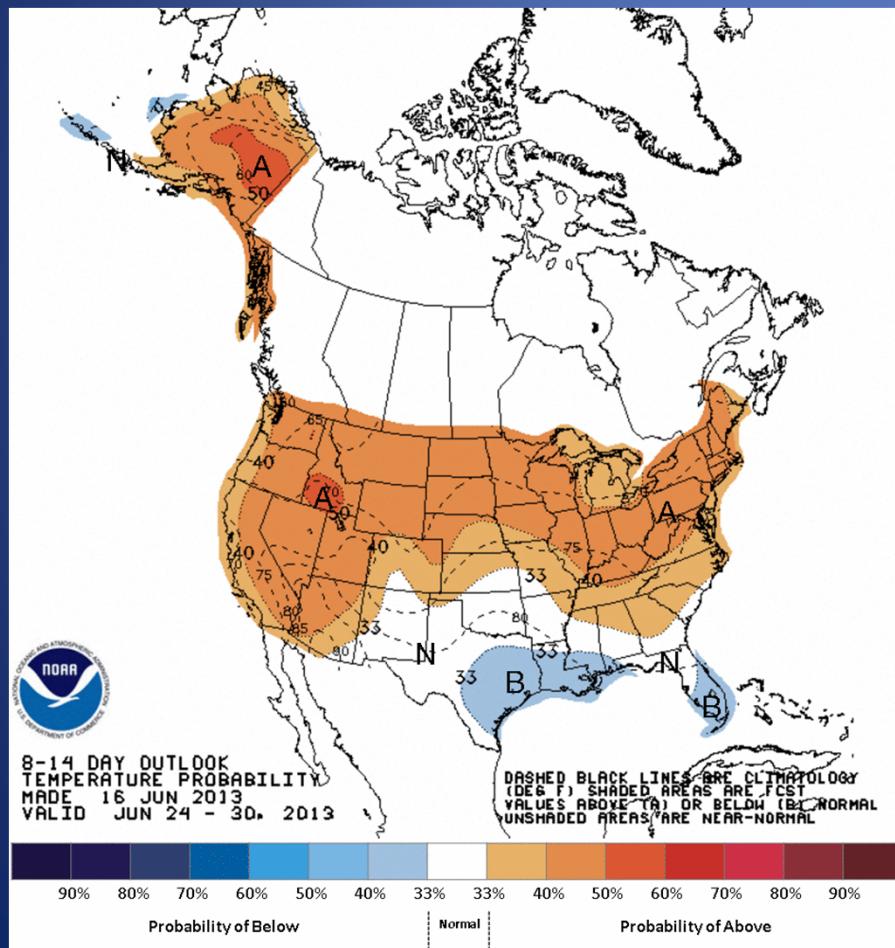
U.S. Drought Monitor Outlook

June 6, 2013



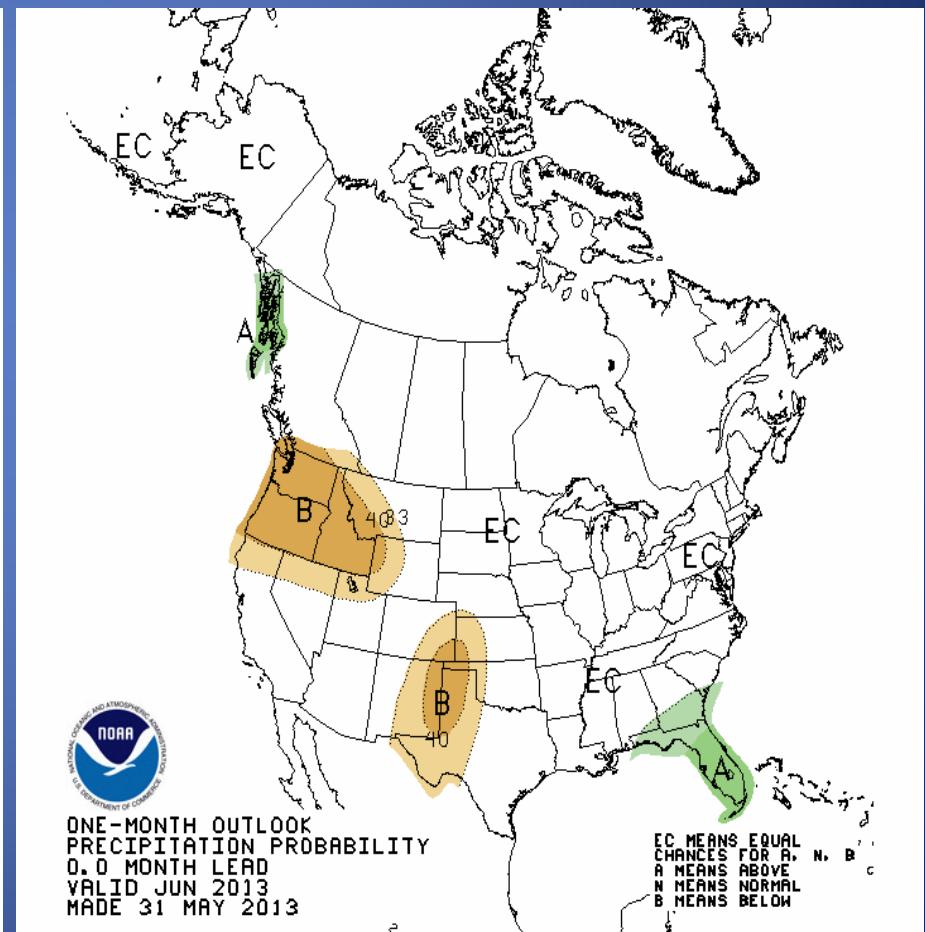
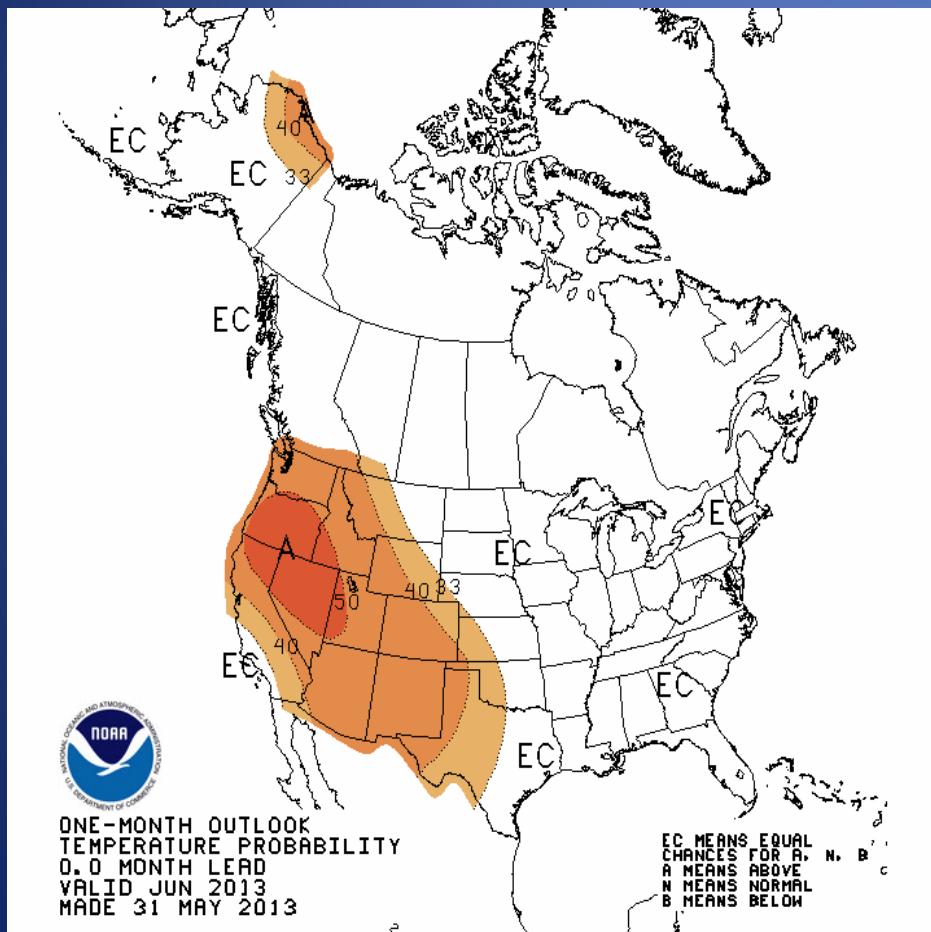
Climate Outlooks made 6/16

8- to 14-day outlook for 6/24 to 6/30

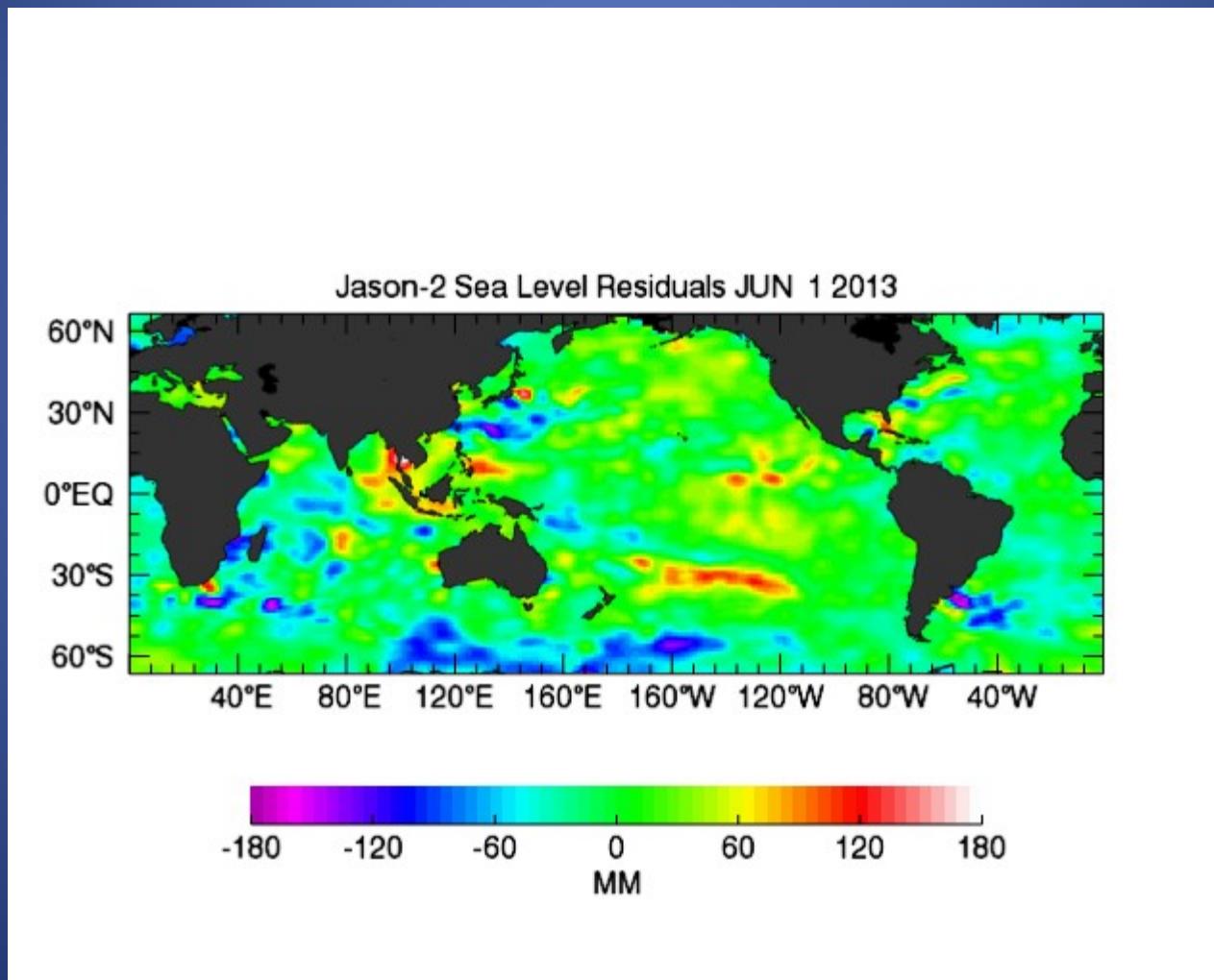


One month June outlook for temperatures and precipitation

Made May 31



ENSO Status - Neutral

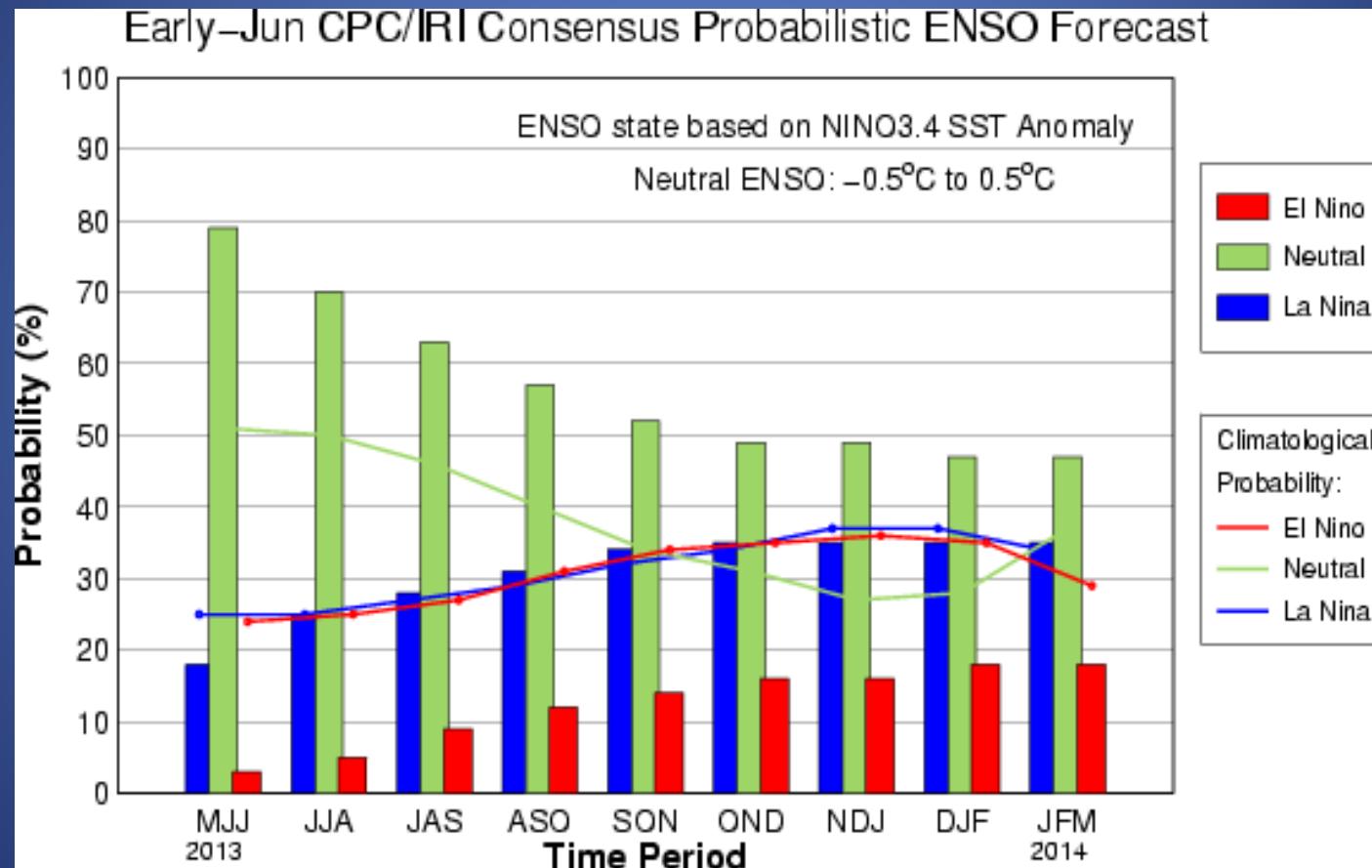


El Niño / Southern Oscillation (ENSO)

fall/spring – 2 El Ninos; 4 Ninas; 2 Neutral

- 2006-2007 El Niño
- 2007-2008 La Niña
- 2008-2009 La Niña
- 2009-2010 El Niño
- 2010-2011 La Niña
- 2011- 2012 La Niña
- 2012-2013 Neutral
- 2013-2014 Neutral / La Nina

ENSO Outlook 2013-2014



The Potential for Drought 2013

- West of Divide – Moderate to High
Water use in – Bitterroot, Upper Clark Fork, Clark Fork Basins bel. Missoula and Bitterroot, NW good snowpack and flow prospects good
- East of Divide – Moderate to High – SW, SC MT
Beaverhead, Missouri, Jefferson, Big Hole, Ruby, Strong points – Recent rainfall for reservoir inflows, carryover storage, and soil moisture

NWS Summary 6/13

- Continue to see some widespread precipitation
Moving through our climatologically wettest months
Southwest Montana still drier than average
- Drought improvement noted across portions of central, south central and southeast Montana
- Expansion of drought in south central and in southern portions west of the divide possible over next few months
- Areas along Milk River and tributaries will continue to see threat of flooding as precipitation in area continues

“It is important to remember that low streamflow and wildfire are to be expected in any given summer in Montana.”

The End

Questions?