



# Spring 2016 - Hydrologic Outlook Red River of the North Basin



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**WRN**  
WEATHER-READY NATION

**Greg Gust - NWS Grand Forks ND**  
**Updated March 3, 2016**



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# Hydrologic Outlook – update

## Red River of the North Basin



**Bottom line up top: (risk further reduced since 19 Feb!)**

- Sig runoff **risk** is very low... below seasonal averages.
  - expect similar to 2015 and 2012 .
- **Mild** thaw cycle is still expected... slight risk remains.
  - Little to no snowpack remains
  - Any flood risk would be mainly rain driven.
- Climate Outlook is for mild and *dryish*... **El Niño** rules!



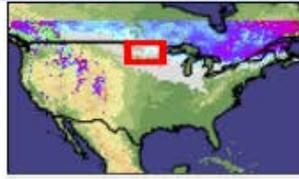
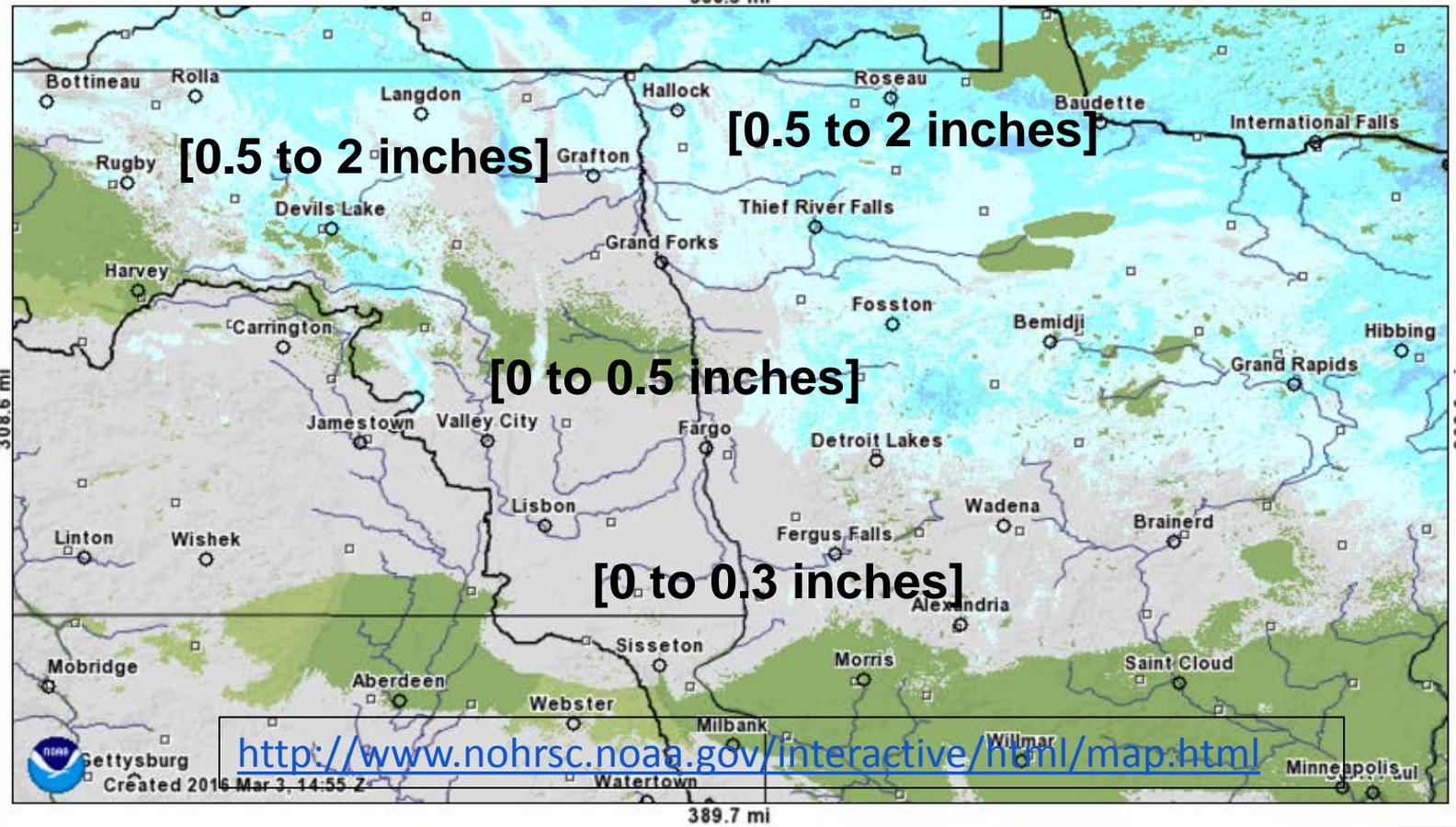




# 2016 Snow Water – updated [very low... 3 Mar 2016]



Modeled Snow Water Equivalent (Shallow-snow Legend) forecasted for 2016 March 3, 15:00 UTC  
358.3 mi

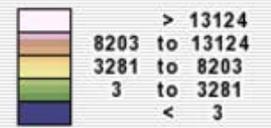


Inches of water equivalent



Not Estimated

Elevation in feet



**Snow Water Equivalent (Content) is very low as well... ranging from 10 to 50 percent of normal.**



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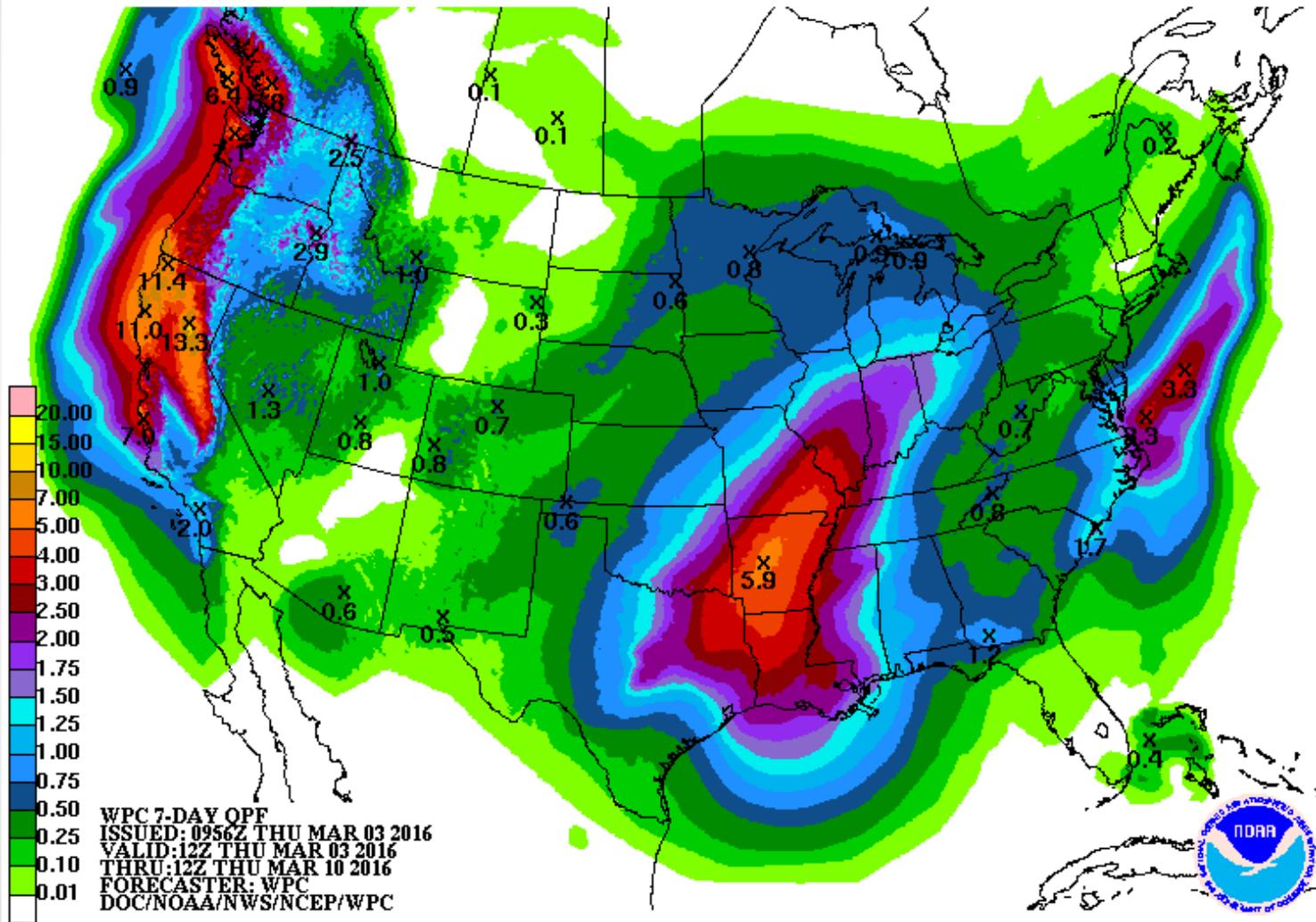


# 7-Day Precipitation Forecast

March 3 – March 10, 2016



- Only minor events for RRB area next week.
- Rain is likely early in the coming week.
- Isolated thunder is possible!



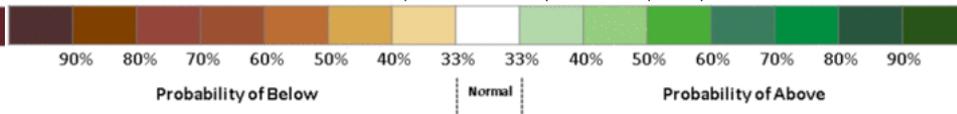
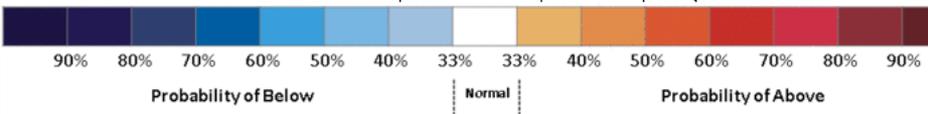
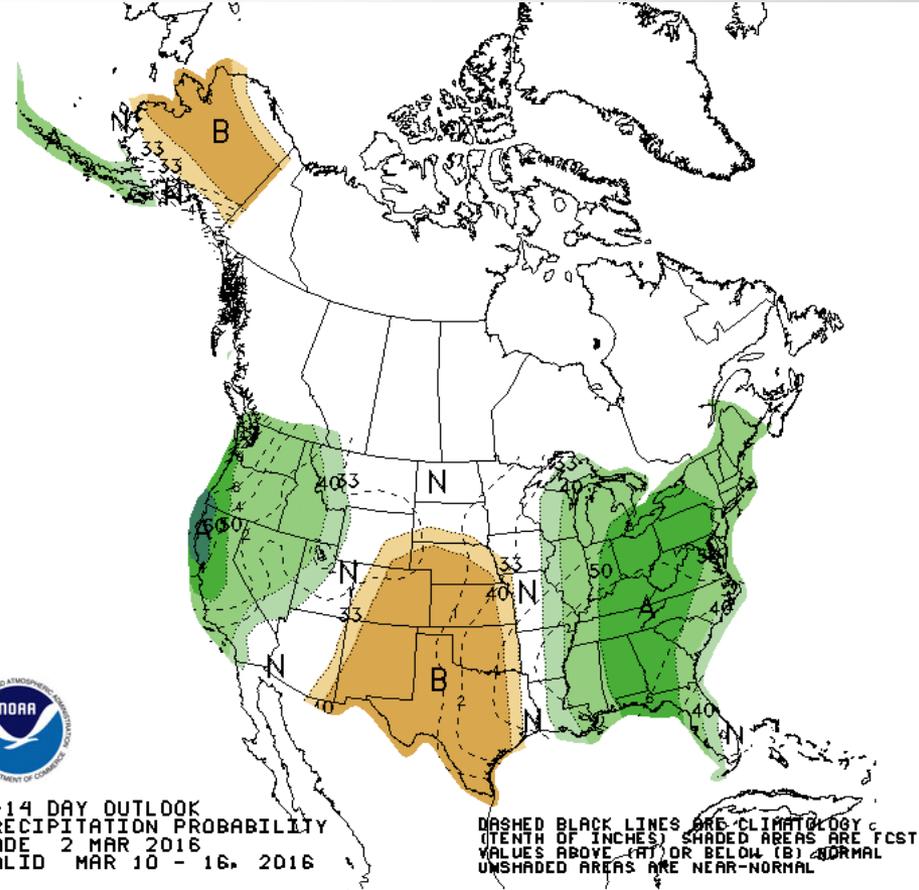
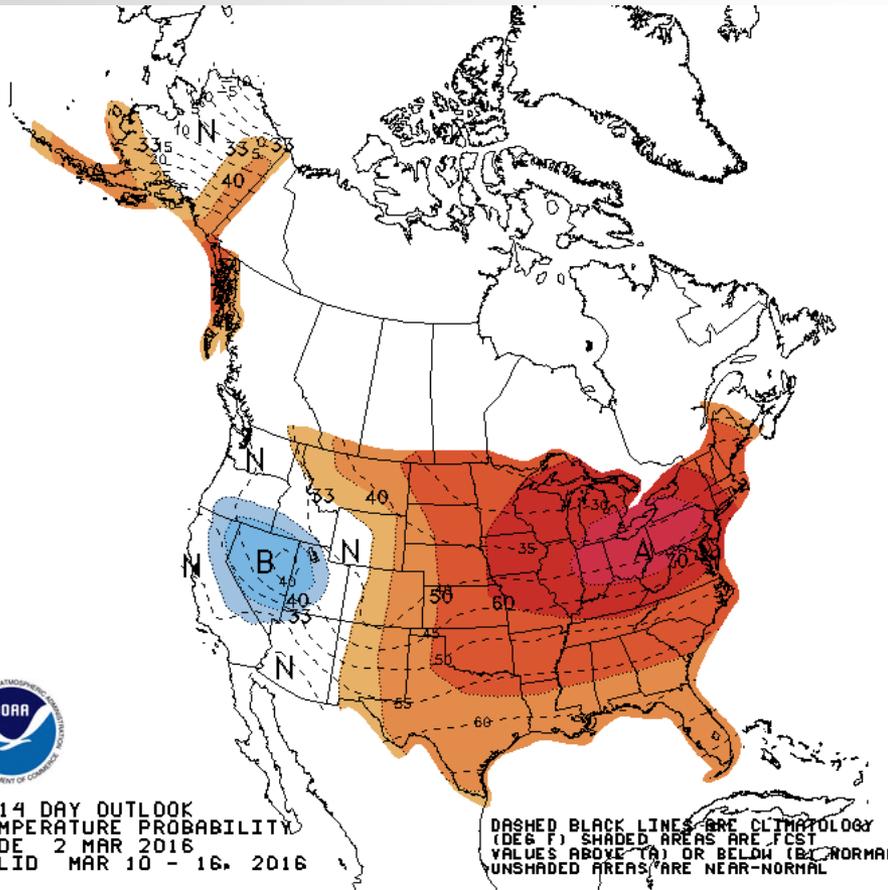
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# 8-14 Day Outlook [mild, w/normal precip]



## March 10-16, 2016... Mild Temperatures, near normal Precipitation.



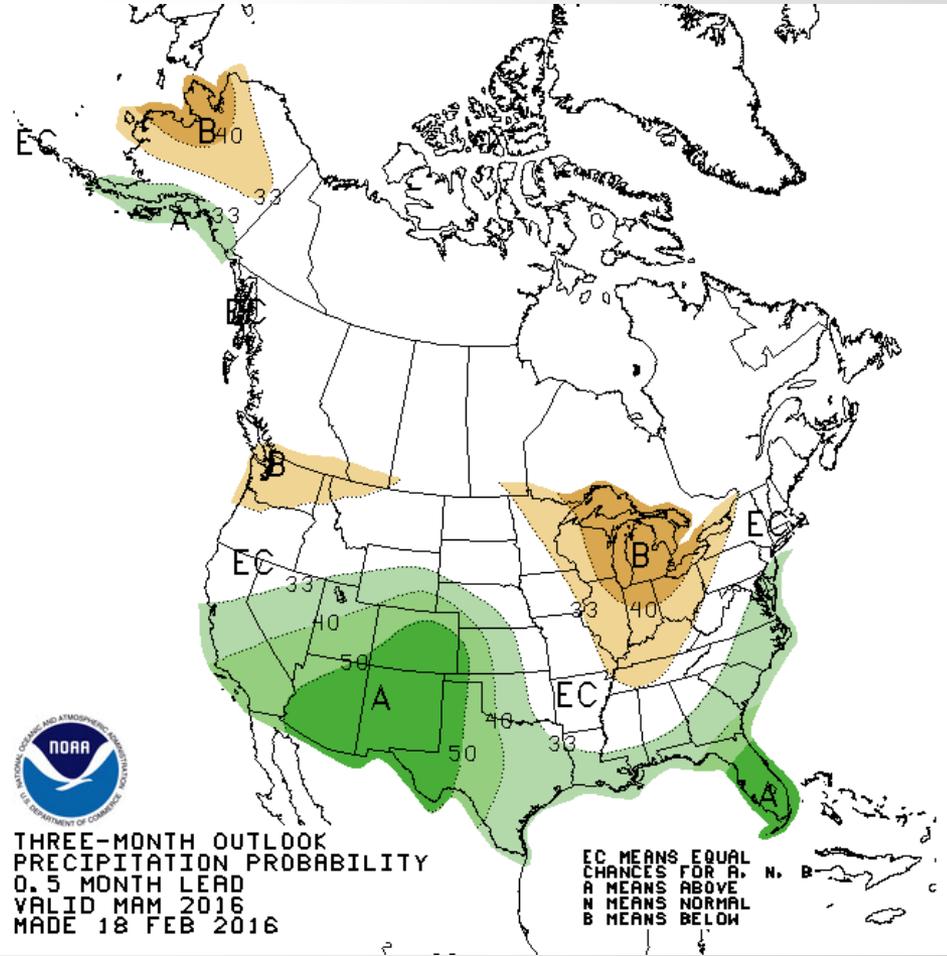
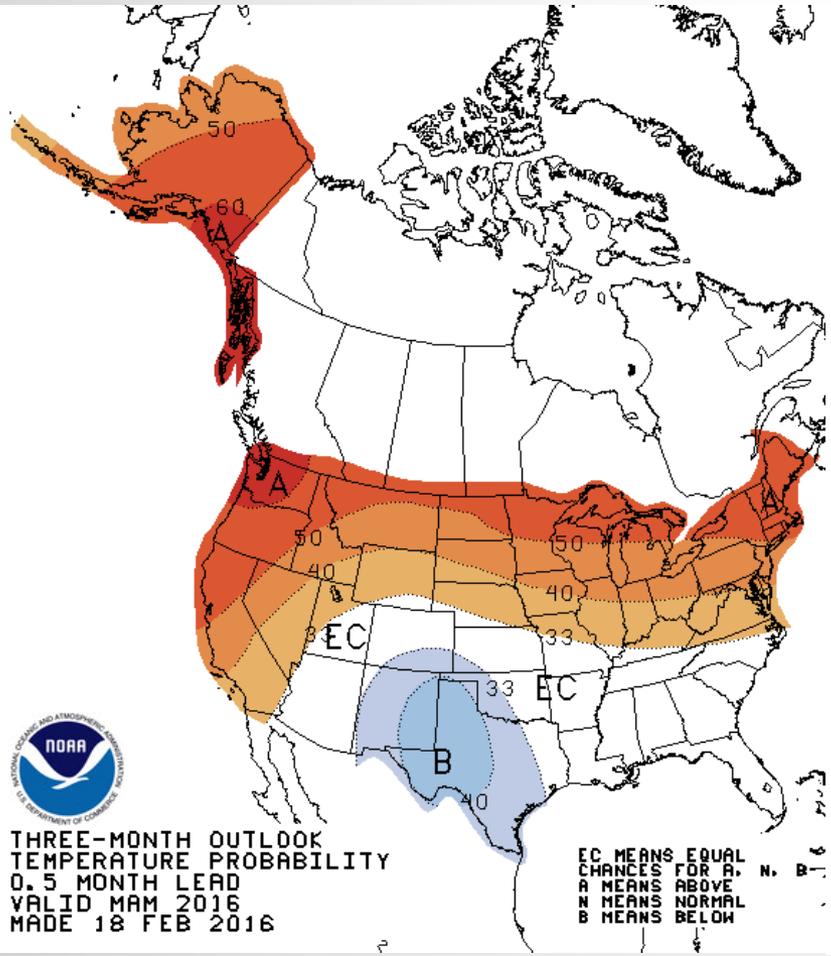
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# Spring Outlook [Mar-Apr-May]

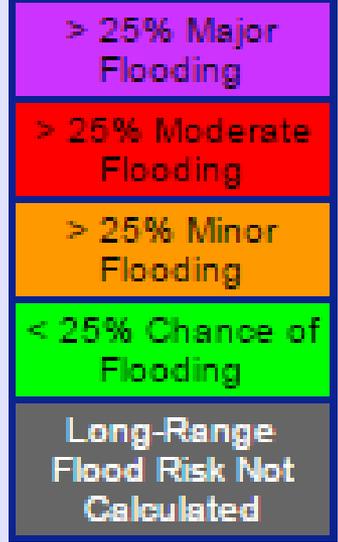
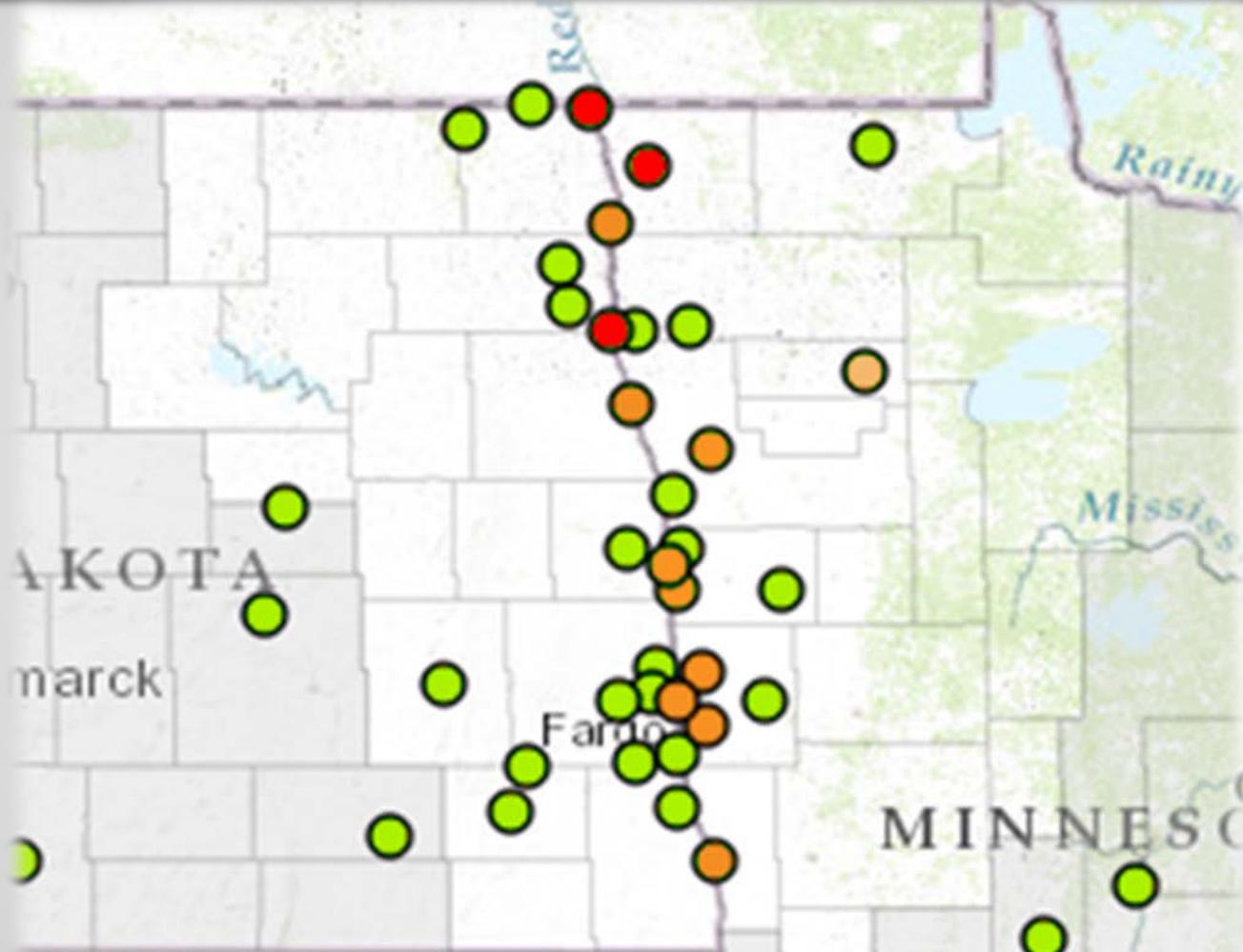


## Continued mild temperatures with near normal precipitation.





# Red River of the North Basin Spring Flood Risk



**Note:** the Minor Flood Stages along the Buffalo River near Sabin, Hawley and Dilworth have adjusted upward by one foot at each location as of March 5<sup>th</sup>, 2015. This graphic reflects those changes.

**At this point... Minor to Moderate spring flooding is indicated for the Red River near Oslo And the Two Rivers near Hallock. Otherwise Minor flooding or less is expected.**

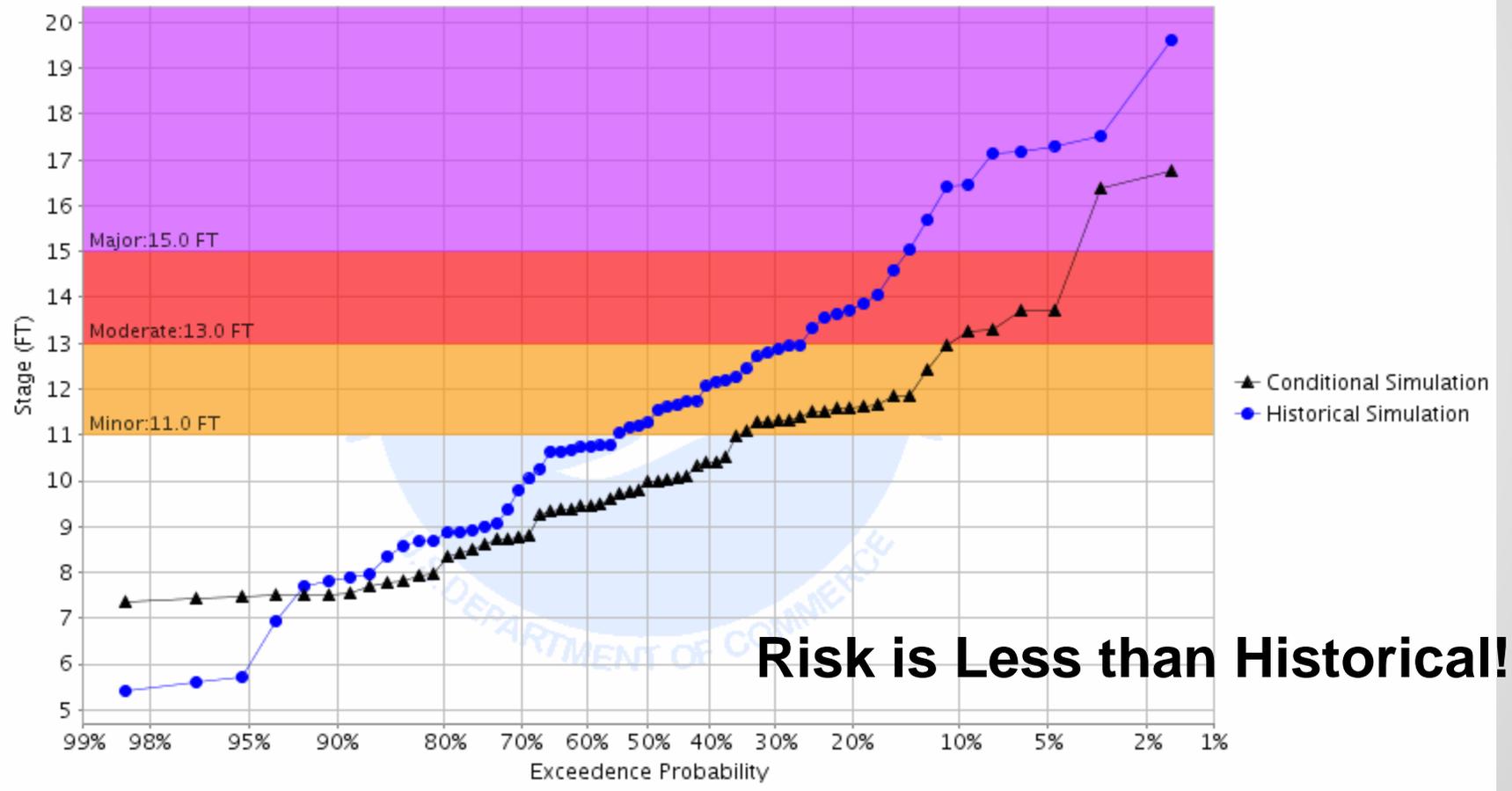


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# Wahpeton/Breckenridge

Chance of Exceeding River Stage at WHNN8  
Forecast for the period 03/06/2016 - 06/04/2016  
This is a conditional simulation based on the current conditions as of 02/28/2016



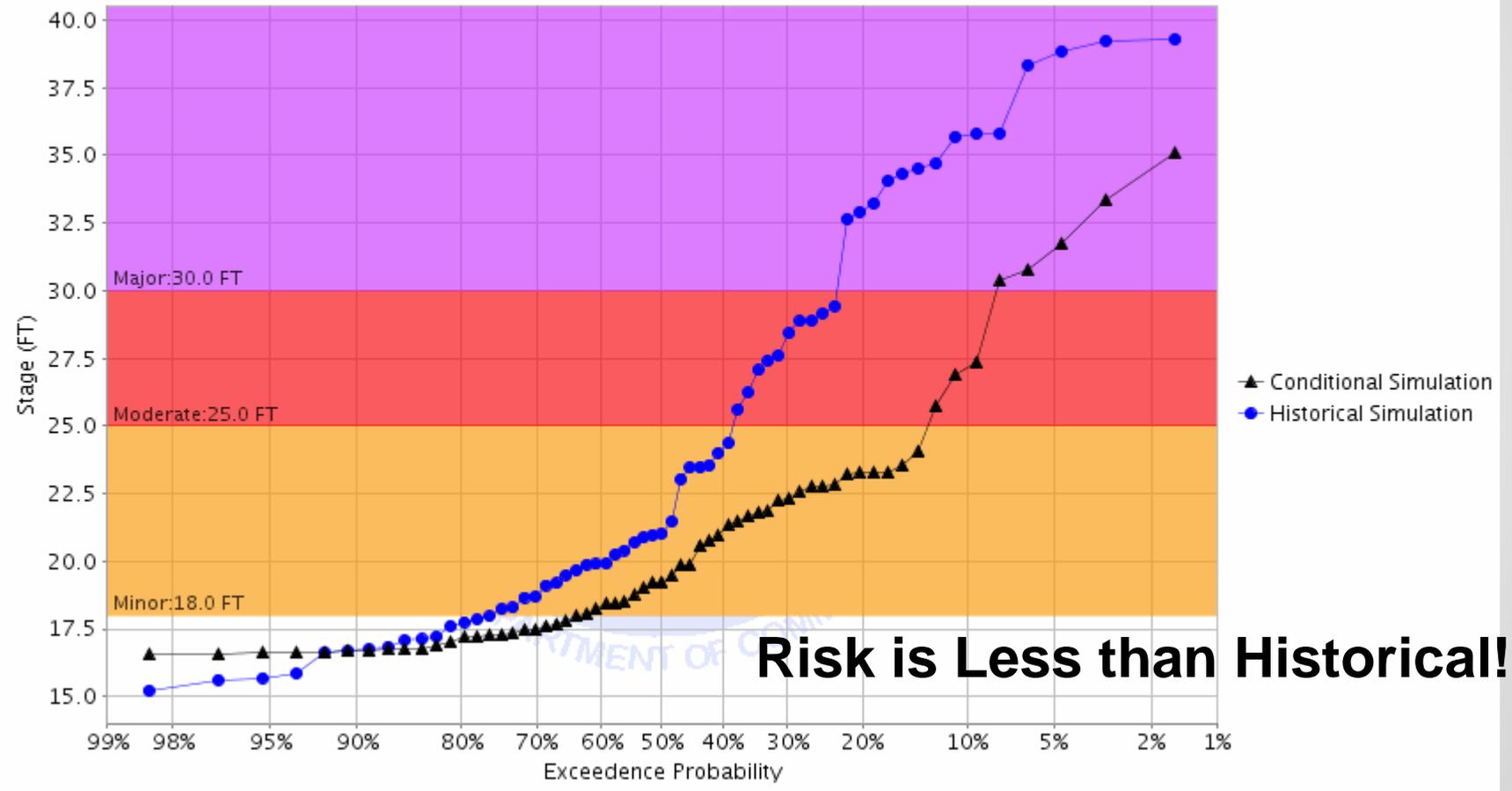
**Risk is Less than Historical!**





# Fargo/Moorhead

Chance of Exceeding River Stage at FGON8  
Forecast for the period 03/06/2016 - 06/04/2016  
This is a conditional simulation based on the current conditions as of 02/28/2016

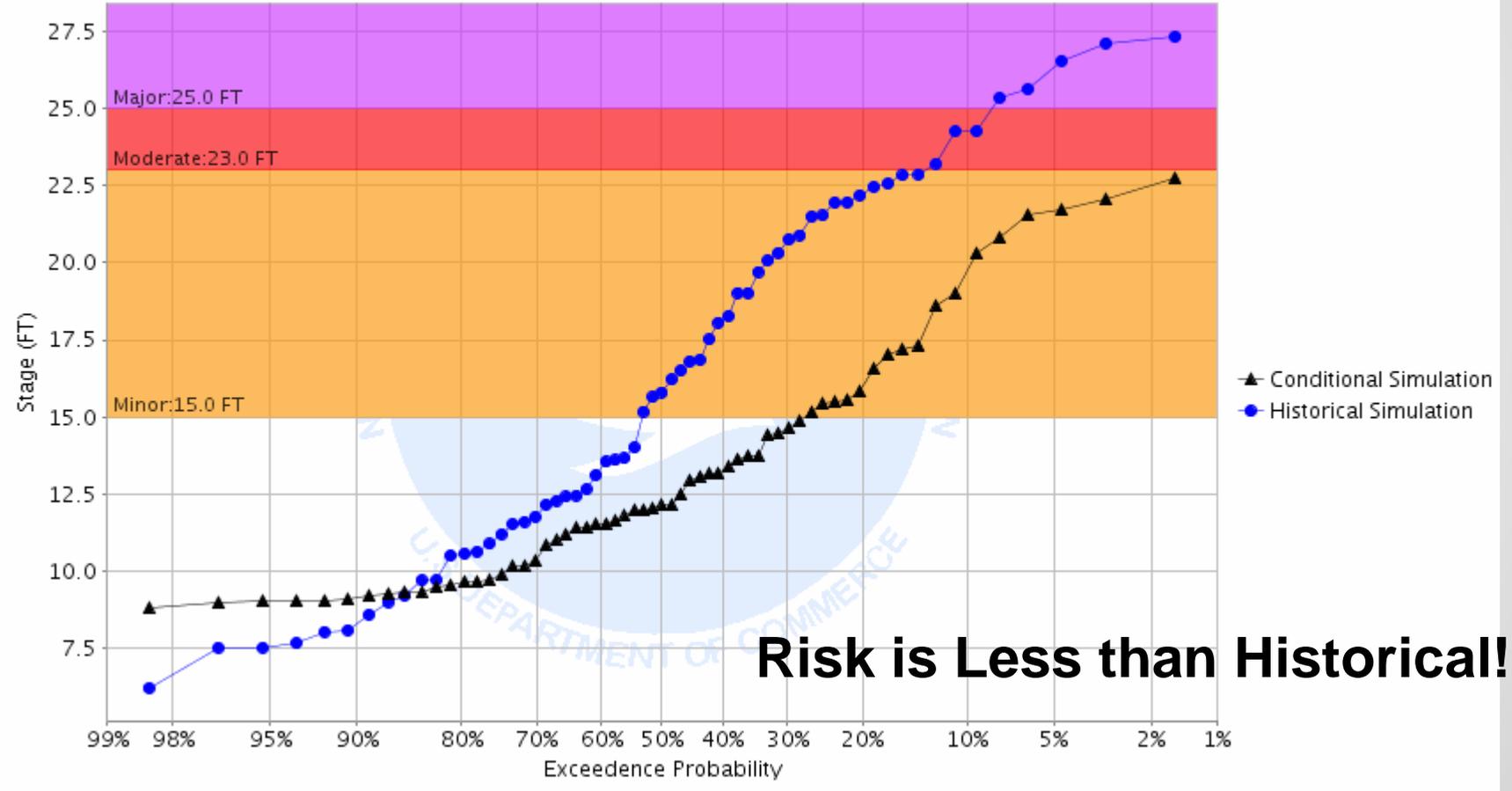




# Crookston



Chance of Exceeding River Stage at CRKM5  
Forecast for the period 03/06/2016 - 06/04/2016  
This is a conditional simulation based on the current conditions as of 02/28/2016



**Risk is Less than Historical!**

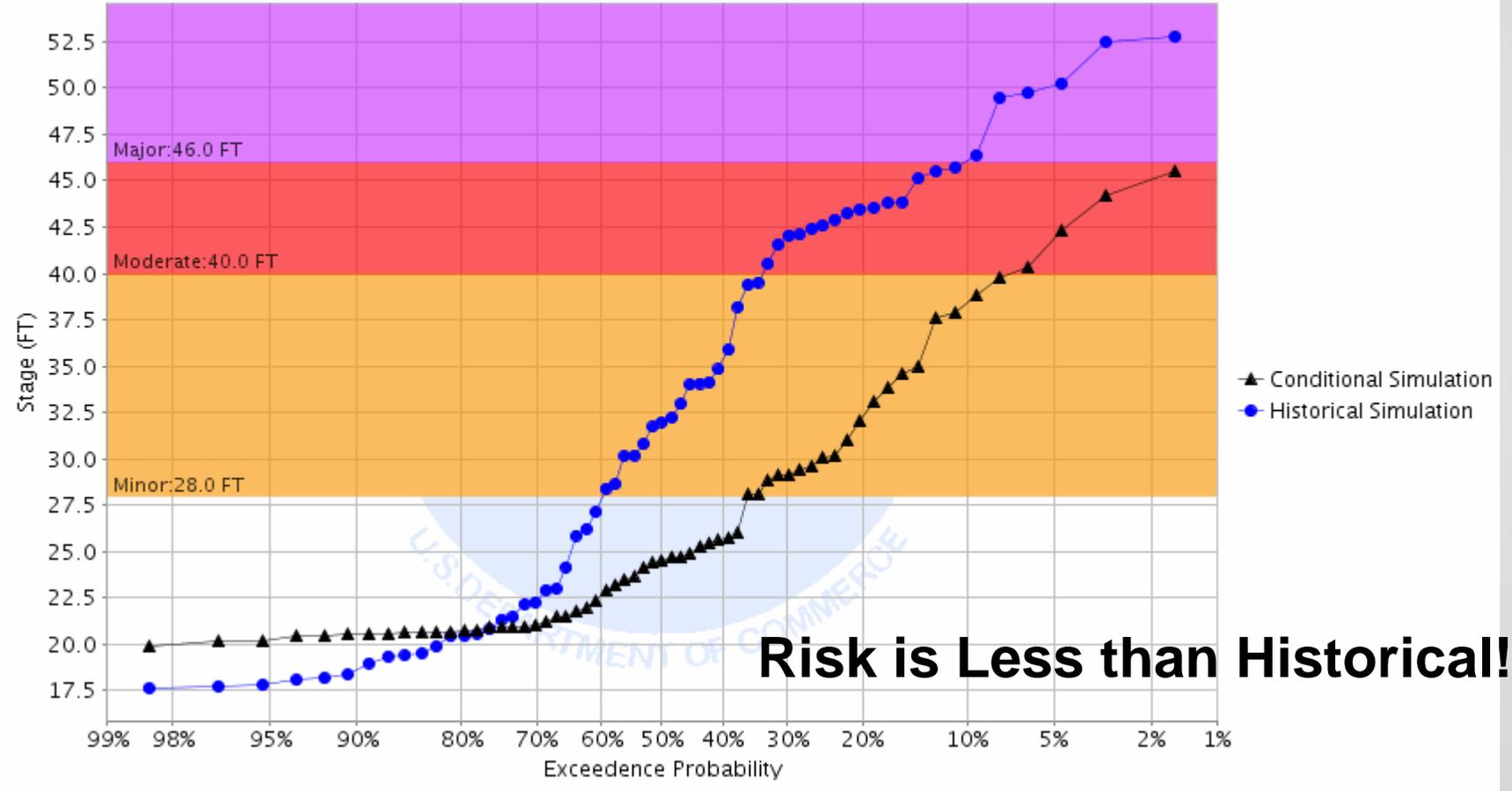




# East Grand Forks/Grand Forks



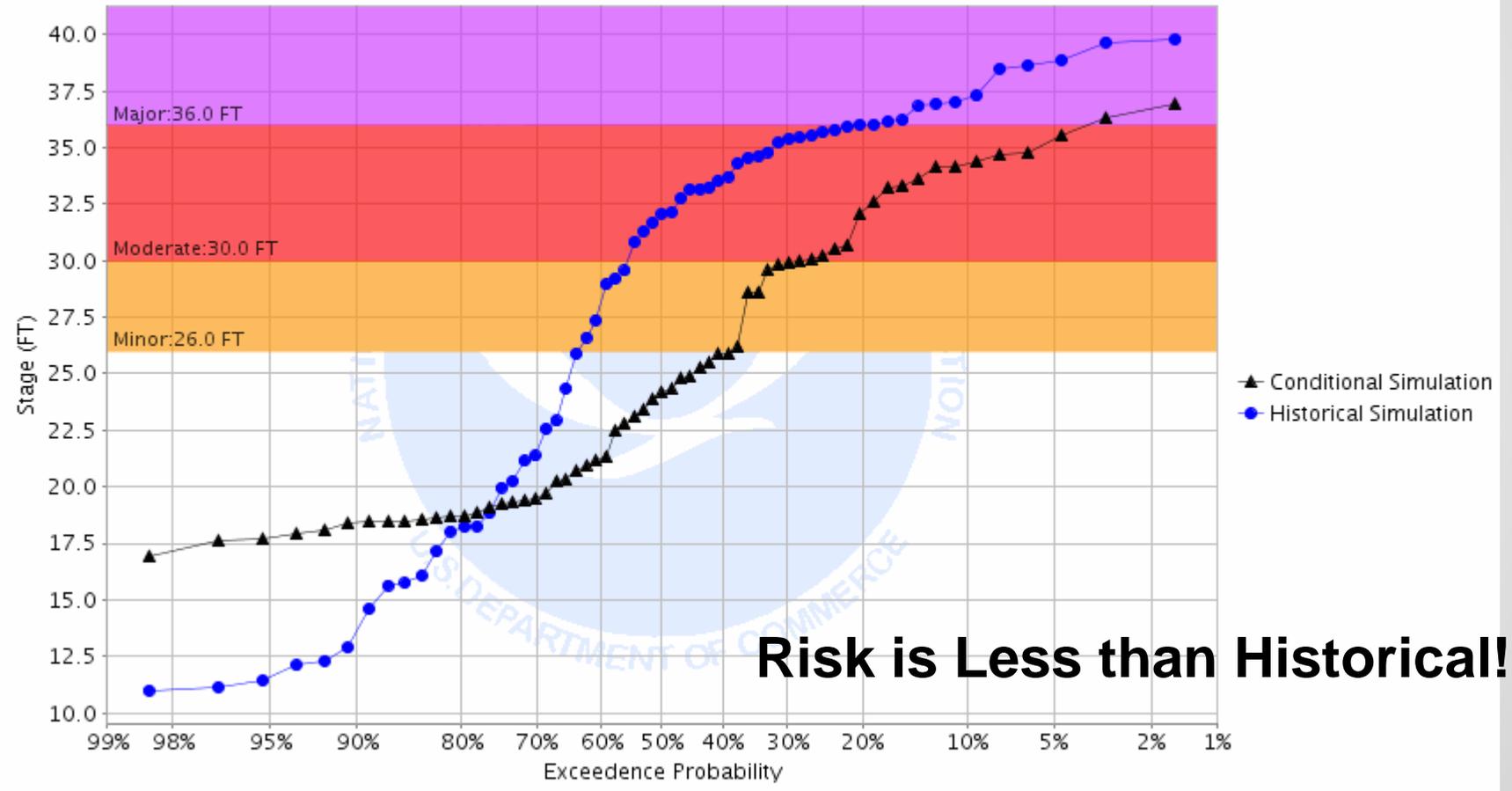
Chance of Exceeding River Stage at EGFMS  
Forecast for the period 03/06/2016 - 06/04/2016  
This is a conditional simulation based on the current conditions as of 02/28/2016





# Oslo

Chance of Exceeding River Stage at OSLM5  
Forecast for the period 03/06/2016 - 06/04/2016  
This is a conditional simulation based on the current conditions as of 02/28/2016



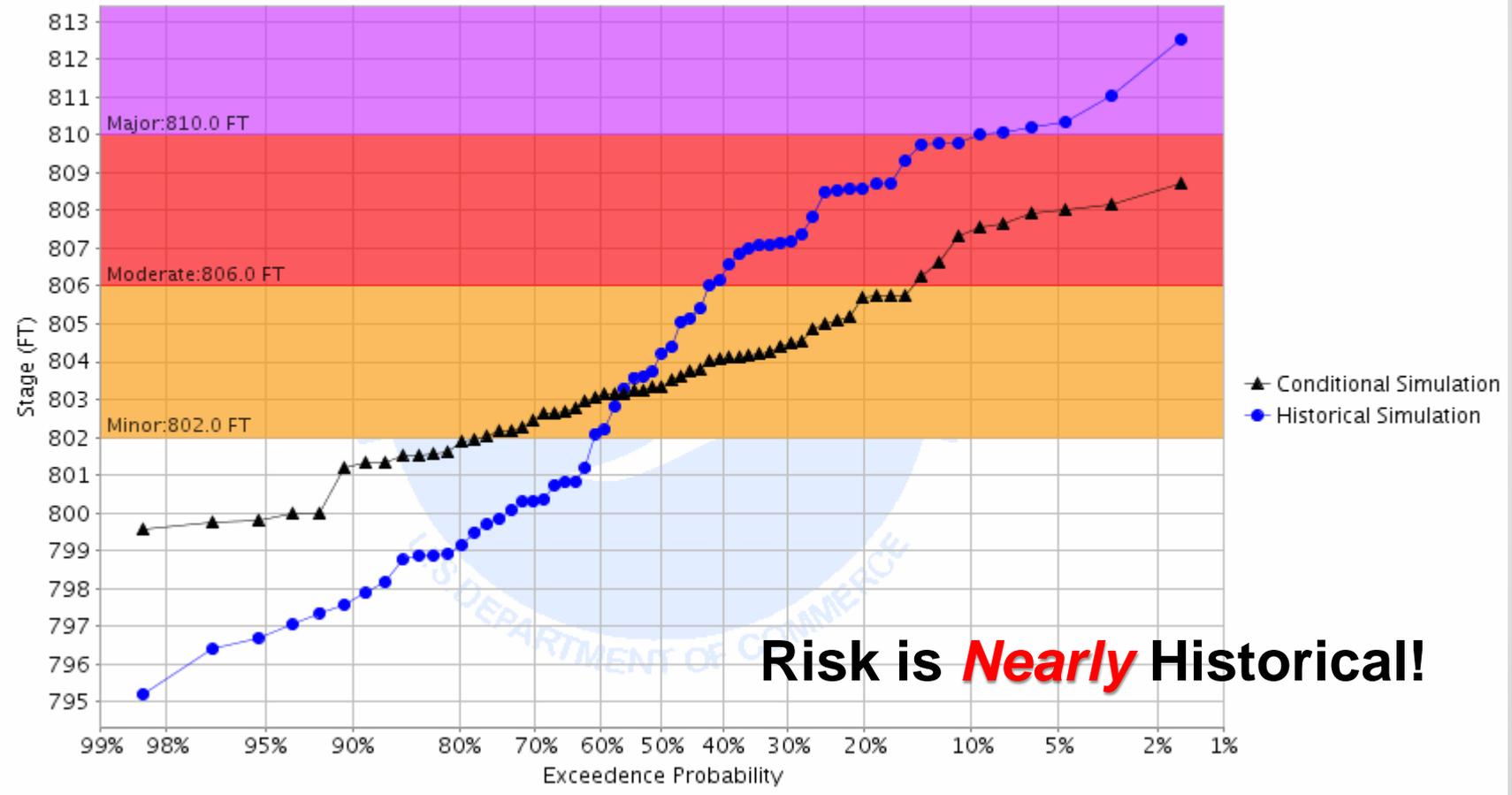
**Risk is Less than Historical!**





# Hallock

Chance of Exceeding River Stage at HLLM5  
Forecast for the period 03/06/2016 - 06/04/2016  
This is a conditional simulation based on the current conditions as of 02/28/2016

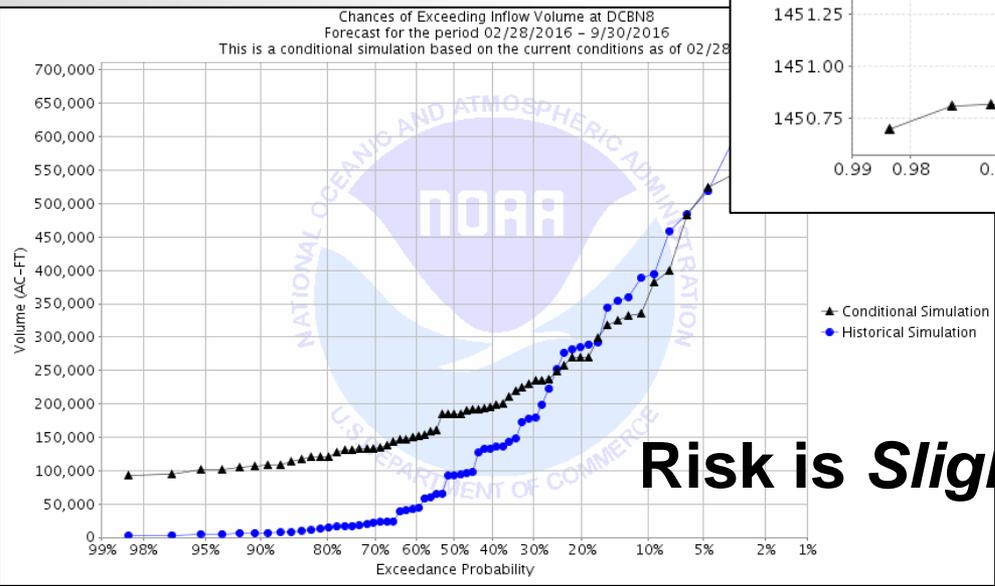
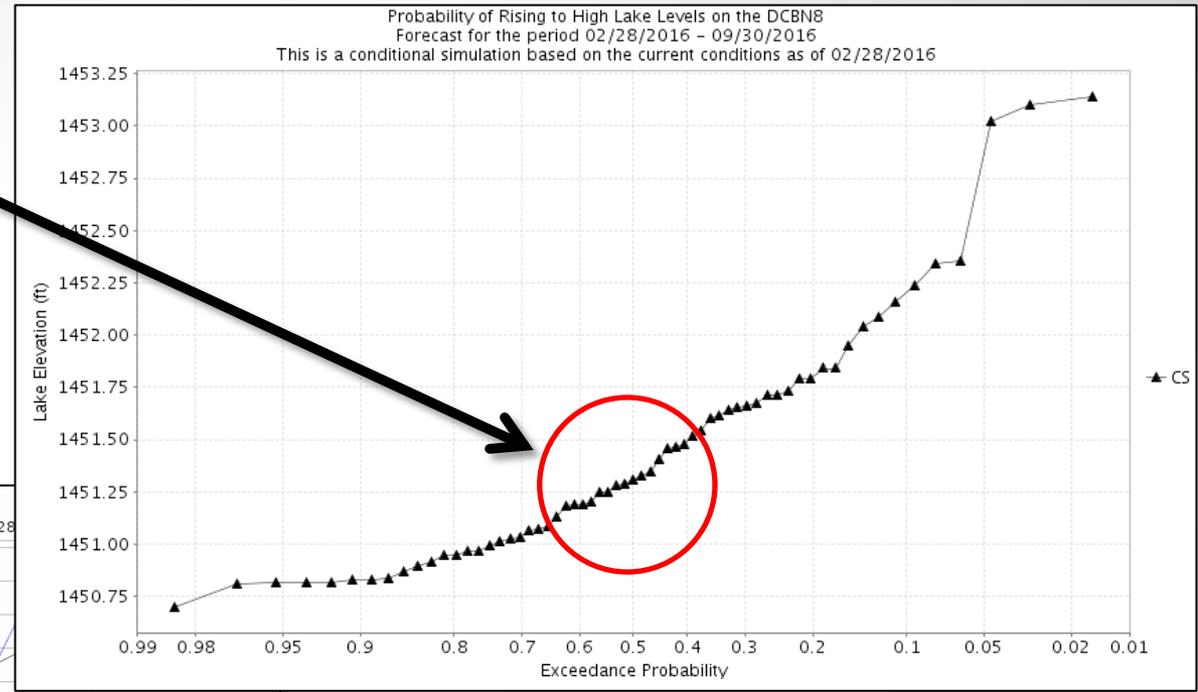




# Devils Lake and Stump Lake

## Possible Lake Level (1 to 1.5 foot rise)

## Inflows (below)



### Risk is *Slightly Higher* than Historical!



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# NWS

## Contact Information



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# QUESTIONS?



<http://www.weather.gov>

