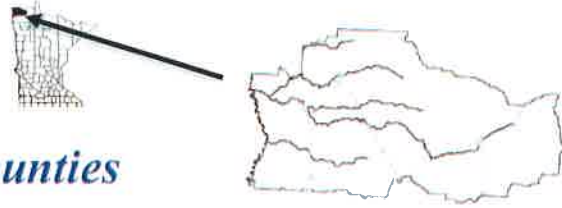


Two Rivers Watershed District

In Roseau, Kittson, & Marshall Counties



*Board of Managers: Roger Anderson, Paul Olsonawski, Daryl Klegstad, Bruce Anderson, Rick Sikorski, Joel Muir, Scott Klein
Staff: Dan Money – Administrator; Matt Thompson – Head Technician*

410 S 5th St., Suite 112, Hallock, MN 56728 - Phone (218) 843-3333 - Email: dan.money@tworiverswd.com

www.tworiverswd.com

March 28, 2018

To: Advisory Committees & General Public

From: Dan Money, District Administrator

Re: Meeting Notice

Greetings,

The next regular monthly meeting of the Board of Managers of the Two Rivers Watershed District will be held beginning at 8:00 a.m. on **Wednesday, April 3, 2019** in the District office located in the Kittson County Courthouse in Hallock, MN.

Enclosed for your information is a draft agenda for the upcoming meeting and the draft minutes of the March regular meeting, along with other meeting discussion items.

If you have any questions or comments regarding the upcoming meeting or would like to be placed on the agenda please let me know.

Have a great day!





Two Rivers Watershed District

DRAFT - Meeting Agenda - Wednesday, April 3, 2019 @ 8:00 a.m.
TRWD Office - Kittson County Courthouse, Hallock, MN

- I. **8:00 a.m. Regular Meeting - Call To Order**
 - Any Additions / Review / Approve Today's Agenda
 - Review / Approve Meeting Minutes of 3/6/19 Regular meeting
 - Review / Approve Treasurer's Report

- II. **8:20 a.m. Administrator's Report**
 - Program Report (1W1P, District Rules, Flood, etc.)
 - Drainage/Ditch Report (103E ditches)
 - Projects Report (103D Projects);
 - Other (RRWMB, MSTC, Legislative, Legal, Etc.)

- III. **9:30 a.m. Review of District's Culvert Sizing Policy**
 - B. Carlson, D. Money, M. Thompson

- IV. **10:15 a.m. Permits - See Back**

- V. **10:45 a.m. Attorney Report**

- VI. **11:00 a.m. Project Reports (Engineering, Attorney, Administrative)**
 - ***Klondike Clean Water Retention Prj #11***
 - Project Record / Processes / Board Decisions
 - Big Swamp Project Work Team
 - Engineering 5 Phased Plan
 - Land Exchange & Right of Way Update
 - Permit Update (PL566/USCOE/WCA/EAW/103Editches/other)
 - Funding & Timelines
 - Other Project Items/Features

- VII. **12:30 p.m. Other Items**
 - Members of Public may address the Board of Managers
 - Any Other New or Old Business
 - Action Items/Task Assignments for Next Month's Board Meeting

- VIII. **1:00 p.m. Adjourn**
Permits Under Review

<i>App. #</i>	<i>Applicant</i>	<i>Location</i>	<i>Purpose</i>	<i>Action</i>
2018-45	Scott Nelson	Granville 6	Tile drainage	tabled pending info
2019-02	Roseau Co. Hwy	Stokes 2	Center line Culvert	Committee approved
2019-03	Justin Dagen	Springbrook 35	Culvert Replacement	Committee Review
2019-04	Kittson Co. Hwy	Skane 1	Frontage Road	Committee approved
2019-05	Kittson Co. Hwy	Hallock 31	Co Rd 10/74 Const.	Committee Review

Permit Appeals / After the Fact Permits / Other Issues

<i>App. #</i>	<i>Applicant</i>	<i>Location</i>	<i>Purpose</i>	<i>Action</i>
2018-10	Mike Jorgenson ■ <u>Appeal Settlement</u>	Moose 19 & 30	Diking; Ditch Plug	Denied
2019-01	Howell Farms ■ <u>After the Fact application pending - Committee Review & Recommendations</u>	Stokes 25	Ditching	ATF permit

Upcoming Dates of Interest:

4/3/19	TRWD Monthly Meeting; 8:00 am
4/10/19	Audit
4/15/19	1W1P Steering Team - Hallock
4/16/19	RRWMB – Thief River Falls
4/24/19	Envirothon @ Lake Bronson State Park
4/25/19	1W1P Policy/Steering/Advisory Committees - Greenbush

**DRAFT - Minutes of the Regular Meeting of the Board of Managers
Of the Two Rivers Watershed District
Held: March 6, 2019 @ 8:00 a.m.**

The Board of Managers of the Two River Watershed District held their regular meeting beginning at 8:00 a.m. on Wednesday, March 6, 2019 at the District Office located in the Kittson County Courthouse in Hallock, Minnesota.

Managers present included President Paul Olsonawski, Vice President Roger Anderson, Secretary Daryl Klegstad, Treasurer Joel Muir, Bruce Anderson, Rick Sikorski, and Scott Klein. None were absent.

Others present included District Administrator Dan Money, Head Technician Matt Thompson, Attorney Jeff Hane (Brink, Sobolik, Severson, Malm & Albright, P.A.), Engineers Nate Dalager & Jake Huwe (HDR Engineering), Engineer Blake Carlson (WSN Engineering), Kittson County Commissioner Darrel Johnson, and Roseau County Commissioner Daryl Wicklund.

The meeting was called to order by President Olsonawski. Olsonawski then called for any additions or corrections to the proposed meeting agenda and the regular meeting minutes from February 6, 2019. Today's meeting agenda and the minutes of the February 6, 2019 regular meeting were approved upon a **motion** by Klegstad, **second** by Sikorski, and **unanimous vote** of the Managers.

Treasurer's Report:

Money presented the treasurer's report including the fund balances, accounts listing, and deposit detail. It was noted that checks written for the month include check numbers 8707 through 8728 and electronic funds transfers to PERA, MN Dept. of Revenue, and Electronic Federal Tax Payment System, as reported and contained within the report. The treasurer's report was then approved upon a **motion** by Muir, a **second** by R. Anderson, and a **unanimous vote** by the Board.

Permits:

The Board acted on the following permits. The review and comments of the permit committee were carefully considered and taken into consideration. Any comments provided by members of the committee, road authorities, or affected landowners have been recorded filed with the permit documentation in the District office. Conditions, if any, are listed on the permit sent to the individual.

<i>App. #</i>	<i>Applicant</i>	<i>Location</i>	<i>Purpose</i>	<i>Action</i>
2018-10	Mike Jorgenson	Moose 19 & 30	Diking; Ditch Plug	

This permit application was originally denied, and Jorgenson subsequently filed an appeal with the court system. The TRWD, Mike Jorgenson, their attorneys, engineers, and District staff have been meeting on the issue since June of 2018. A verbal agreement has been reached and the attached Findings of Fact and Conclusions were discussed with the Board of Managers. The Board of Managers had concerns with item #1 of the Order, and discussion was held regarding entering onto the adjacent property to correct a permit violation. It was decided that the property owner be contacted to correct the pending permit violations, and if he does not, the District will seek his permission to enter onto the land to do the work. If he does not grant permission, then other legal means will be taken. Upon a **motion** by Muir, **second** by Klein, and **unanimous vote** of the Managers the Findings of Fact and order was approved. TRWD staff will contact the landowner to obtain written approval from the adjacent landowner to enter onto the land to rectify the 3 outstanding permit violations. All information will be forwarded to the District's attorney to seek agreement from Jorgenson and settlement of the lawsuit.

2018-45	Scott Nelson	Granville 6	Tile drainage	tabled pending info
2019-01	Howell Farms	Stokes 25	Ditching	tabled Need Complete Application
2019-02	Roseau Co. Hwy	Stokes 2	Center line Culvert	Under Committee Review
2019-03	Justin Dagen	Springbrook 35	Culvert Replacement	Under Committee Review

Attorney's Report:

Attorney Jeff Hane of Brink, Sobolik, Severson, Malm, & Albright, P.A., gave an Attorney's report regarding the following items:

Policies-Procedures-Rules: Each month the Board is reviewing TRWD policies, procedures, and other administrative items. This month's topic is the 60 day rule for permit applications. An informational sheet was handed out and discussed. In general, the District has 60 days to act on a permit application however certain this could change based upon other factors such as an incomplete application. Discussion was held regarding the District's permit application and review process. The open meeting law and the use of personal emails was also discussed.

Administrator's Report:

District Administrator Money gave a report on the following and distributed a handout:

Legal Ditch Report:

Technician Matt Thompson gave a report regarding surveys that were completed for the Dewey #5 and the Kennedy #6 projects. The surveys show the present grades and cross sections compared to the constructed grades and cross sections. It is not apparent that any cleaning or maintenance is necessary at this time on either of these systems. Each will be monitored annually as part of the District's operations and maintenance plans. This maintenance schedule was handed out and reviewed. Ditches that will be surveyed in 2019 are KCD 7, JD 10 B, and SB 10.

Money reported on the KCD 21 Redetermination of Benefits. The District is currently looking for a third Viewer for the project, and the project is on hold until we can find someone to fill the position. It is hoped that the project can be completed prior to September so that the new benefits can be provided to Kittson County for the 2020 tax year.

Program Report:

- *One Watershed One Plan:* The Kittson Soil and Water Conservation District is designated the fiscal agent for the grant. The Board of Water & Soil Resources has approved the grant in the amount of \$230,000. Money will be the grant writer, and any TRWD time spent on the project will be billed to Kittson SWCD. Brian Dwight will be hired as meeting facilitator and the International Water Institute will begin work on the 'PTMapp', which is a computer modelling program that will be utilized in the planning process. The Policy Committee and the Advisory Committee meetings will be scheduled upcoming in April 2019.

- The *annual audit* will be done by Brady-Martz, and they will begin on April 10th. In conjunction with the audit, Money will prepare the 2018 annual report. Both are planned to be done by the May 2019 board meeting.
- The *MN Association of Watershed Districts* held its legislative day at the Capitol on February 20-21. Meetings were held with several legislators, and issues discussed were Manager per diem rates, bonding for flood damage reduction, and numerous other issues. MAWD and the Red River Watershed Management Board will continue to work on these issues during the legislative session.
- *2019 Staff work schedule* - a work schedule was distributed to the Board detailing proposed monitoring and data collection activities and also ditches and flood control project activities.
- *2019 flood outlook* - The National Weather Service issued a flood outlook on February 21 with an update due on March 7. At this point it looks as though there will be moderate to major flooding on the Red River of the North. Most tributaries are in the minor to moderate category, however this could change based on precipitation, rate of melt, and other factors. The TRWD in the past has done stream flow monitoring, surveying, operation of impoundments, and general information and coordination activities during a flood.
- *Information – Education* - Staff will be helping with the Envirothon and the Kittson County Central School science fair. Both of these activities are educational events for high school students. In addition, Kittson Central continues to show interest in the River Watch program, which the District has been involved with in the past.

Red River Watershed Management Board -

- ❖ The annual March Conference will be held in Moorhead on March 19-21, 2019. Several speakers and seminars are lined up to provide excellent educational opportunities. Managers who would like to attend should let Money know in order to get registered.
- ❖ Money has been named the Co-Chair of the Red River Basin Flood Damage Reduction Work Group, the Chairman of the Legislative Committee, and the Chairman of the Governing Documents Committee.

Project Report:

Klondike Clean Water Retention Prj. #11:

- Engineering – The current 5 phase plans have not changed, however HDR needs to know what specific structural and not structural natural resources components will be implemented. This discussion is being held with the project work
- Right of Way – Letters are drafted and staff is working on ROW maps to distribute with the letters to landowners asking for 15 year options.
- Land Exchange – Applications for land exchanges were submitted to the DNR on January 23 and 24, 2019. To date we have not heard anything regarding. These will be followed up on to determine their status.
- Permitting – The TRWD continues to work on the federal environmental assessment through the Regional Conservation Partnership Program. Also, wetland review is at the US Army Corps of Engineers concurrence point #3. Several state permits that have not been applied for include an environmental assessment worksheet, wetland conservation act, dam safety, and NPDES. Local permits will include 103E impoundment of waters on a ditch system, alteration of existing township roads, and potentially others. Many of these will be started this year and worked on concurrently.
 - It was noted there is a need to start specifically identifying wetlands that are present and what agencies have jurisdiction. Money suggested the District hire a wetland specialist to do a desktop delineation. After discussion, he was directed to get 3 quotes for this work to see what the costs will be.
 - According to our agreement / contract with the Natural Resources Conservation Service for the RCPP, we are required to do a benefit cost analysis. We will need an economist for this work, and upon a **motion** by R. Anderson, **second** by Klegstad, and **unanimous vote**,

authorization was approved to hire HDR Engineering to provide an economist not to exceed 100 hours. It was noted 70% of this will be paid for by the grant.

- Funding – A spreadsheet was distributed showing all past, current, and hopeful future funding sources. Project costs by phases were also shown and discussed. It is hoped that, even though it is a non-bonding year, a bonding bill will be authorized by the legislature for flood damage reduction grants.
- Natural Resources Enhancements – A meeting was held with the ‘Big Swamp Project Work Team on February 25, 2019. Considerable discussion was held regarding 1) permitting and mitigation requirements, 2) proposed project component alternatives and their feasibility. This included the north outlet options, potential impacts to the rich fen, and proposed NRE benefits, 3) mitigation requirements related to wetland and other environmental permits. It seems there may be some misconceptions with project proposals and whether they will positively or negatively affect the fen and other natural resources. NRE benefits were also discussed including flow augmentation, harmful algal blooms on Lake Bronson, and nutrient loading. As a result the meeting, several team members felt that a subcommittee should meet to sort out details. Money presented a listing of specific questions for the DNR, MPCA, HDR Engineering, and TRWD to answer in order to move the discussion forward. A **motion** was made by Sikorski, **seconded** by Klegstad, and **unanimously approved** to send the questions to the subcommittee made up of permitting agencies, hold a webinar, and bring the results to the full BSPWT at their next meeting. The next BSPWT meeting is scheduled for March 25, 2019.

Engineering: Discussion was held regarding engineering services. In recent months the Board had asked several firms for quotes for services. The Board of Managers decided to not change any engineering services at this time. As new projects come up, engineering services will be considered on a case by case basis.

With no other matters to come before the Board of Managers, the meeting was adjourned.

Daryl Klegstad, Secretary

Attest:

Paul Olsonawski, President



Red River and Devils Lake Basin - 2019 Spring Flood Outlook

Discussion Points 3/7/2019 (updated from 2/21/2019 outlook)

prepared by

NWS - Weather Forecast Office, Grand Forks ND
NWS - North Central River Forecast Center, Chanhassen MN



This outlook is for the U.S. portion of the basin and is based on conditions through Tuesday, 3/5/2019. All graphics, probabilities, and related discussions are available at weather.gov/fgf. Another update may be issued by 3/22/2019.

Bottom Line up Front!

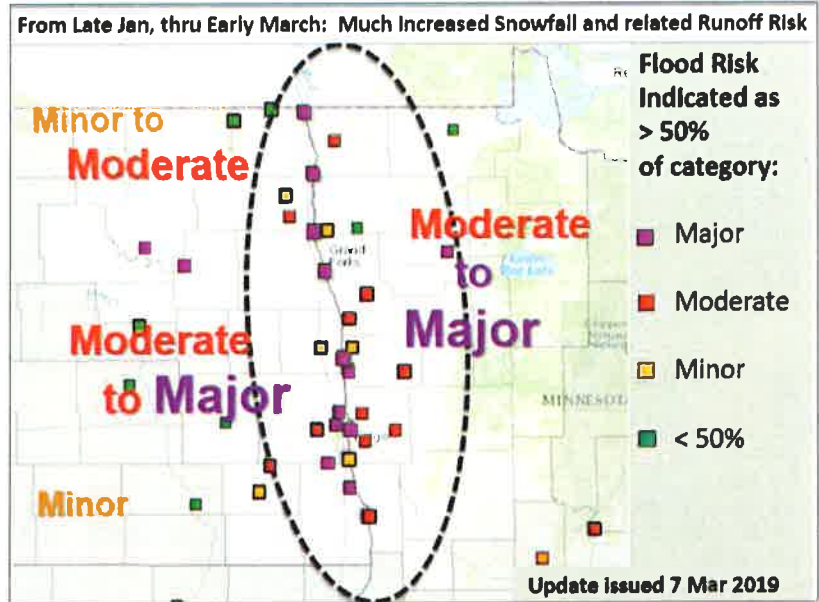
- **March has been and will likely stay Unmerciful!** Now with prospects for delayed thaw and continued excessive snowfall, through much of March.

- **The threat for significant snowmelt flooding has further increased across the main-stem Red River and its sub-basins.**

- **Above normal snowfall has occurred and is expected to continue.** The next two weeks should see more substantial snowfall, so that widespread, above normal runoff is likely.

- **The deep frost is still present, even deeper, and should limit snowmelt infiltration,** though soils are dry enough to handle some melt runoff... *if* the thaw cycle allows.

- **Climate outlooks still indicate a later snowmelt and runoff cycle which increases our risk for rapid and/or rainfall enhanced runoff.** With a hint of near normal conditions by late March, and perhaps thaw commencing...



Long Story Short: The risk for significant snowmelt flooding has further increased, running well above long-term historical averages across the Red River and Devils Lake Basins (U.S. portions).

Key Snowmelt Flood Components:

1. Base Streamflow: Still frozen, with near normal north, slightly above normal south. USGS analyses indicate that the Red River and its ND and MN tributaries are thick ice covered and/or flowing within long-term normal ranges, between 25th and 75th percentiles north of Fargo. Some higher quartile flows, 76% to 95%, were noted south of Fargo.

2. Soil Moisture at Freeze-up: Above normal south, near normal central, below normal far north.

3. Frost Depth: Deeper than normal everywhere. Extreme cold late Dec-Feb has driven frost from 35 to 45 inches in most areas, with river-ice and lake-ice thicknesses near to above seasonal normal ranges.

** With ice mainly in the lower channels, Ice Jams should be more of a risk on tributaries, less on the mainstem Red **

4. Winter Snowpack/SWE: above/much above normal. Since Dec 1st, snowfall has run from 90-160 percent of normal - least in east-central ND and most from northcentral MN into the central and southern RRV. The water content (SWE) ranges from 2.5 to 4.0 inches across most areas - including the Devils Lake Basin.

5. Total Precipitation, Oct 1st to Mar 5th is High. Total precipitation (rain and snow-water) measured across the Basin from Oct 1st through Mar 5th ranged from 1-3 inches above the long-term normal for most of the central and southern Red River Basin... with much above normal precipitation (an inch or more) expected through the next 7 days.

New! Along with our flood partners, we've developed a display graphic which relates the current flood outlook to our historical flood levels (for now, just along the mainstem Red River). **Check it out at:** <https://www.weather.gov/fgf/PFOS>

DEVILS LAKE & STUMP LAKE... Long-Range Probabilistic Outlook
Valid March 4, 2019 - September 30, 2019

LOCATION	95%	90%	75%	50%	25%	10%	05%
CREEL BAY	1449.1	1449.2	1449.5	1449.8	1450.3	1450.7	1451.4
EAST STUMP LAKE	1449.1	1449.2	1449.5	1449.8	1450.3	1450.7	1451.4

The current heights of Devils Lake and Stump Lake are ~1448.3 ft. MSL.

Color code: Below Minor Moderate Major Flood of Record

RED RIVER AND TRIBUTARIES... Long-Range Probabilistic Outlook
Valid March 11, 2019 - June 09, 2019

LOCATION	95%	90%	75%	50%	25%	10%	05%
WAHPETON	11.8	12.2	13.1	14.6	15.6	16.9	17.5
HICKSON	28.0	28.9	31.3	33.0	34.4	35.8	37.0
FARGO	31.1	31.9	33.4	34.9	36.6	38.2	39.1
HALSTAD	35.6	36.1	37.1	38.2	39.0	39.8	40.3
GRAND FORKS	44.5	44.8	46.4	47.8	49.7	52.5	54.6
OSLO	37.0	37.0	37.3	37.5	37.8	38.0	38.1
DRAYTON	41.2	41.4	42.0	42.6	43.4	44.6	45.3
PEMBINA	50.2	50.3	51.2	52.0	52.8	53.8	54.4

Minnesota Tributaries:

South Fork Buffalo River.....							
SABIN	14.2	14.4	14.8	15.6	16.6	18.3	19.6
Buffalo River.....							
HAWLEY	8.2	8.7	9.2	9.6	10.3	10.9	11.2
DILWORTH	19.9	20.4	21.3	22.2	23.2	24.7	26.2
Wild Rice River.....							
TWIN VALLEY	10.4	10.7	11.3	12.5	14.4	15.4	17.0
HENDRUM	29.7	30.3	30.9	32.0	32.8	33.7	34.5
Marsh River.....							
SHELLY	15.0	15.4	16.5	18.3	21.5	23.5	25.2
Sand Hill River.....							
CLIMAX	23.4	24.0	25.7	27.1	30.8	33.3	36.3
Red Lake River.....							
HIGH LANDING	11.6	12.3	12.8	13.1	13.3	13.6	13.6
CROOKSTON	20.2	20.9	22.4	24.5	26.1	29.3	30.7
Snake River.....							
ABOVE WARREN	64.4	64.6	65.1	65.8	67.0	69.4	71.4
ALVARADO	103.0	103.8	104.5	106.0	108.3	109.8	110.1
Two Rivers River.....							
HALLOCK	806.4	806.6	807.7	808.5	809.3	810.5	811.2
Roseau River.....							
ROSEAU	12.6	13.5	14.2	15.4	16.5	17.3	17.9

North Dakota Tributaries:

Wild Rice River.....							
ABERCROMBIE	19.2	19.8	20.6	22.0	23.4	25.4	26.2
Sheyenne River.....							
VALLEY CITY	12.4	12.6	12.8	14.0	16.5	19.6	20.8
LISBON	13.0	13.4	14.4	16.3	18.5	21.8	25.1
KINDRED	17.4	18.9	20.0	20.5	21.1	21.2	21.2
WEST FARGO DVRSN	17.2	18.7	19.5	21.3	21.3	21.3	21.3
HARWOOD	90.6	91.0	91.4	92.0	92.1	92.2	92.3
Maple River.....							
ENDERLIN	10.9	11.2	11.7	12.4	12.9	13.6	14.1
MAPLETON	21.6	21.6	21.8	22.3	22.7	23.2	23.8
Goose River.....							
HILLSBORO	8.9	9.7	11.6	12.9	14.6	15.9	17.2
Forest River.....							
MINTO	7.3	7.7	8.0	8.8	9.5	9.9	10.2
Park River.....							
GRAFTON	10.1	10.4	11.2	13.2	14.9	15.7	17.9
Pembina River.....							
WALHALLA	5.3	6.0	6.8	7.6	8.7	11.9	12.7
NECHE	9.3	10.2	11.7	13.8	16.2	20.7	21.2

Notes

1. Devils Lake Basin Runoff Risk has not changed much since February. A somewhat above normal rise is expected, from 1 to 2 ft. A ½ to 1 ft. rise on Devils Lake is considered about normal.

Note: Devils Lake is currently about 1.5 feet lower than this time last year.

2. Red River Basin Runoff Risk continues to increase. All Red River main-stem points will see significantly higher flows,

- due to higher streamflow and soil moisture/runoff from the central and southern valley,

- coupled with high snowmelt runoff potential across the RRB... especially the central and southern valley, the MN uplands, and Red Lake River Basin,

- exacerbated by deep frost and potentially delayed thaw cycle.

3. Above normal snowpack and runoff potential is evident in most all MN tributaries.

Central and North tribs now with much higher runoff risk than previously indicated.

Roseau River Basin is near normal for runoff risk.

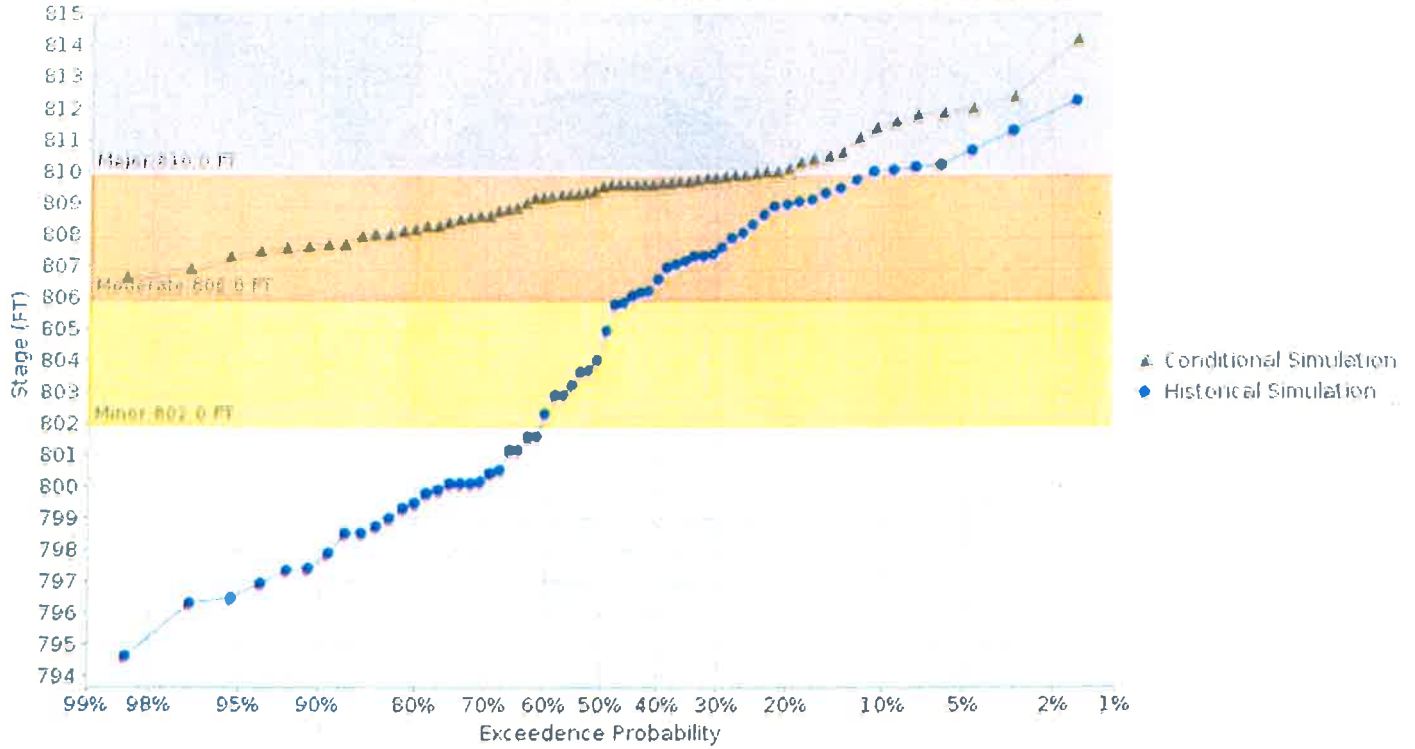
4. ND Wild Rice has a quite High Runoff Risk, with much above normal snowpack.

Mid and Upper Sheyenne now has above normal snowpack.

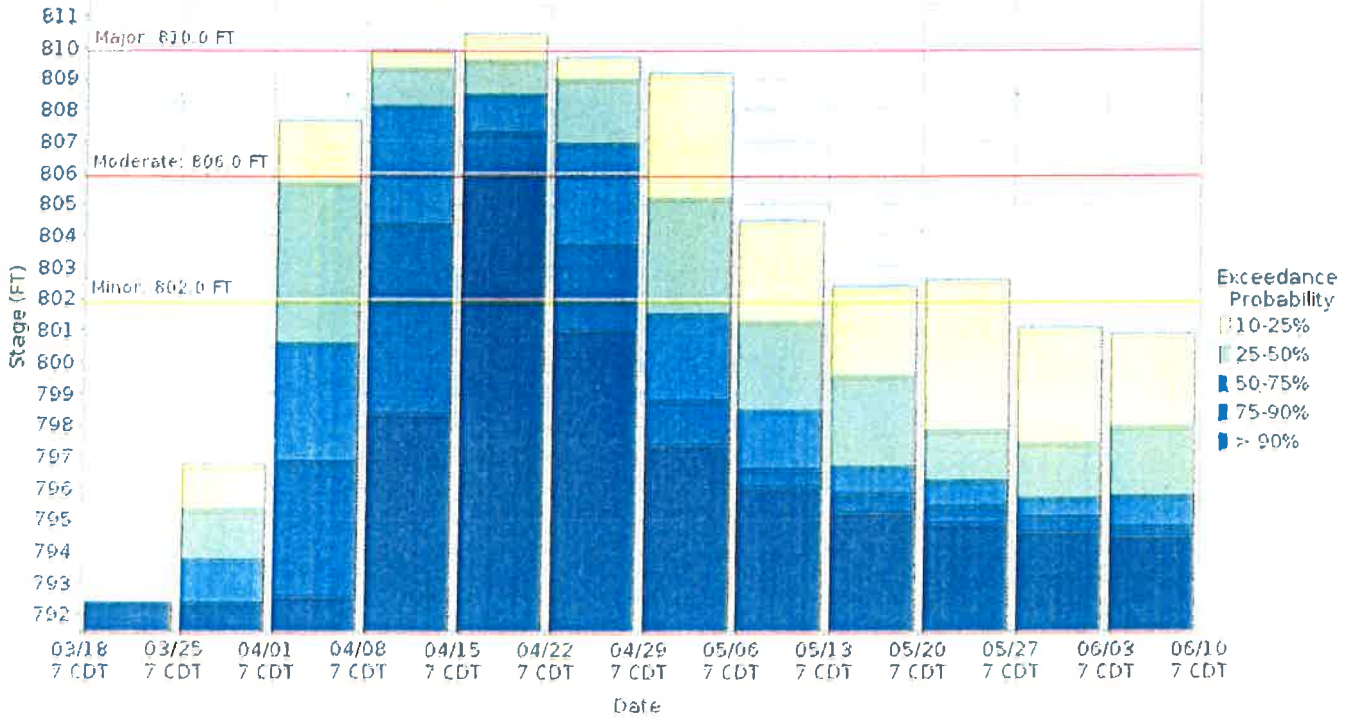
Lower Sheyenne through east-central ND tribs are at an increasingly elevated risk.

Northeast ND is mixed, with higher risk along the Forest and Park Rivers, still fairly low along the Pembina.

Chance of Exceeding River Stage at Two Rivers River at Hallock (HLLM5)
 Forecast for the period 03/18/2019 - 06/16/2019
 This is a conditional simulation based on the conditions as of 03/11/2019



Weekly Chance of Exceeding River Stage at Two Rivers River at Hallock (HLLM5)
 Forecast for the period 03/18/2019 - 06/16/2019
 This is a conditional simulation based on the conditions as of 03/11/2019



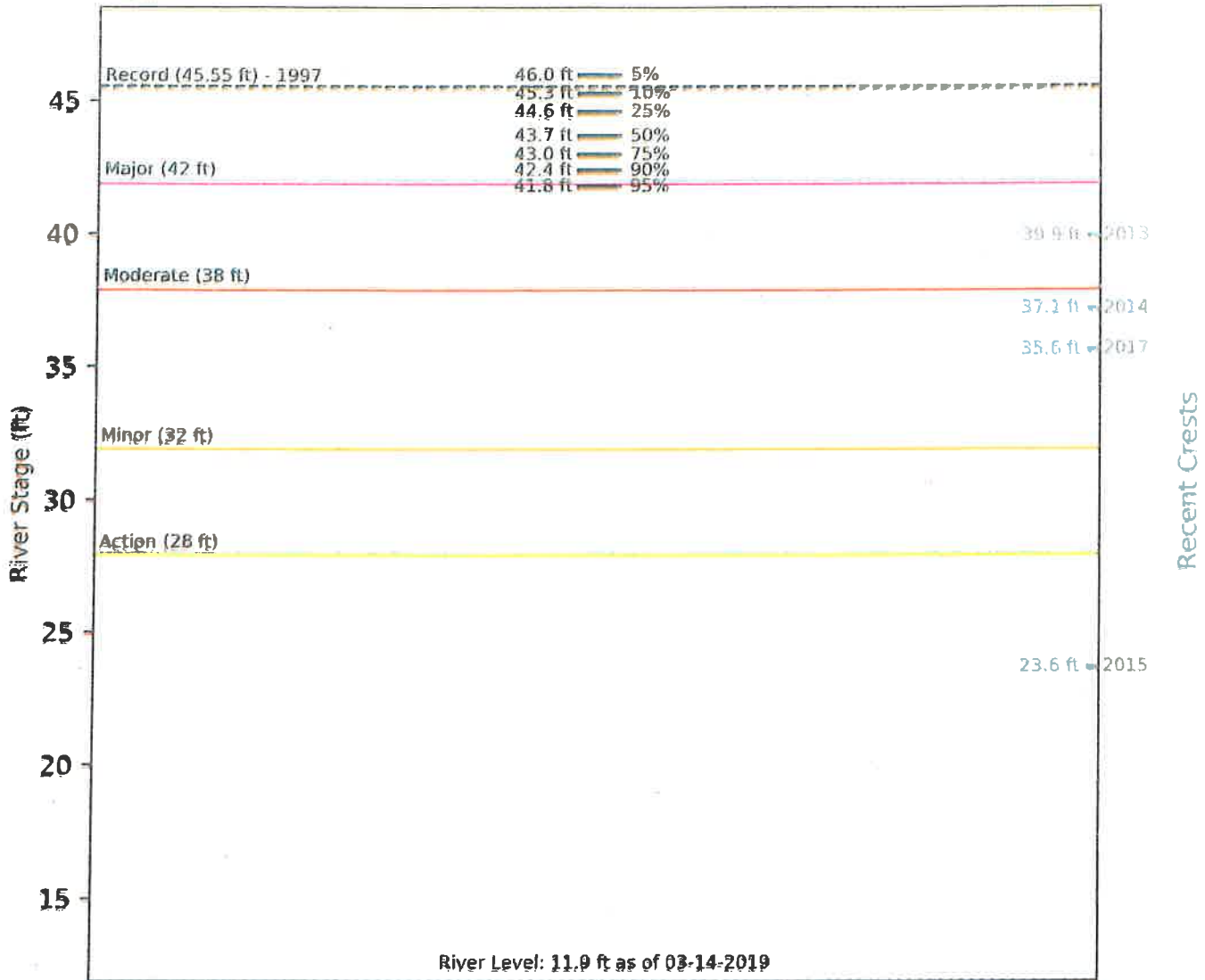


2019 Spring Flood Outlook for Red River at Drayton

Valid 03-18-2019 through 06-16-2019



% Chance of reaching or exceeding this level



*This outlook graphic shows the most likely river stage range based on the latest forecast.
 There is a 5% chance of values higher than depicted here.
 **Figure created on 03-14-2019