



RED RIVER

RETENTION AUTHORITY

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Red River Retention Authority

6 Month Progress Report

Reporting Period 8

November 21, 2018 through May 20, 2019

To

Natural Resource Conservation Service

For

Regional Conservation Partnership Program

NRCS Agreement 14-C-ND-669

June 2019

The Statement of Work between the USDA Natural Resource Conservation Service (NRCS) and the Red River Retention Authority (RRRA) summarizes the activities and responsibilities of the entities for the Regional Conservation Partnership Program (RCPP). Item 6, under responsibilities of the RRRA, requires that a semi-annual report be provided to the NRCS that documents project accomplishments and goals achieved. The Memorandum of Understanding (MOU) was signed on May 21, 2015.

On June 13, 2019 the NRCS and RRRA signed Amendment #1 which extends the MOU to May 20, 2021.

The following is an abbreviated update report that summarizes activities that occurred during the 6-month period from November 21, 2018 through May 20, 2019.

Numbers of WD, WRD and SLO assisted and/or cooperating agencies in the project effort.

The NRCS will provide a maximum of \$11,040,000 for the development of watershed protection plans within the approved project locations. Within the first reporting period, the RRRA was provided 23 applications to complete watershed protection plans following the guidelines described in the NRCS National Watershed Program Manual. The RRRA accepted the applications and approved 20 of the requests. They provided the 20 applications to the NRCS and requested that the NRCS pursue a cooperation agreement with the local sponsor of the project. One of the applications was not accepted, because the watershed was larger than allowed and two applications were withdrawn before an agreement was executed.

During reporting period 6 the Swan Creek Watershed ceased watershed planning and NRCS and the project sponsor has formally closed out agreement 68-6633-15-009. A final technical report was provided to North Dakota NRCS.

During reporting period 8 the Bois de Sioux Direct watershed sponsored by the Bois de Sioux Watershed District (agreement 68-6322-16-510) and Four Legged Lake watershed sponsored by the Red Lake Watershed District (agreement 68-6322-16-505) have formally written letters to NRCS requesting to cease watershed planning. The RRRA has agreed with both watershed districts (WD) reasoning to cease planning and has drafted a letter supporting their decision. The WDs are currently working on drafting a final technical report and submitting their final reimbursement request for the work completed.

During the reporting period all thirteen RCPP watershed SLOs were contacted and provided technical assistance through the NRCS and RRRA RCPP outreach materials were developed and distributed to all RCPP watersheds through agreement (68-6633-16-512)

During project team meetings local, state and Federal cooperating agencies were enlisted to assist in the planning process.

A June 2019 map providing the location of the 17 active RCPP studies is shown in **Appendix 1**. Fact sheets for each of the RCPP watersheds studies were developed for use

by NRCS, RRRRA and SLOs. These fact sheets were posted to NRCS web sites and made available for use in July of 2018.

RCPP planning status spreadsheets have been developed by NRCS staff for both MN and ND. These worksheets have been updated for reporting period 8 (see **Appendix 2**). The RRRRA has updated their RCPP spreadsheet to show RCPP funds expended during the planning process and specifically for reporting period 8 (see **Appendix 3**)

Contributions from other agencies or organizations which help implement provisions of the agreement and further project objectives.

While SLOs work on RCPP watersheds, they also work on non-RCPP flood damage reduction and water quality efforts through other agencies and/or organizations that have a common vision for flood damage reduction in the Red River basin. A list of projects and the amount of assistance the SLOs and their partners have incurred during the reporting period are shown in **Appendix 4**

RCPP Watershed Education and Outreach Activities.

The following items are some of the major education and outreach activities during reporting period 8. In addition to these activities and deliverables there has been significant day to day correspondence and information dissemination amongst NRCS, SLOs, SWCD/SCD, state and local units of government, as well as other NGOs and other partner organizations to further the RCPP planning effort in the basin.

As outlined in the MOU Objective 2 the RRRRA has worked on providing outreach and education opportunities to producers, local soil and water conservation district supervisors and watershed board managers and other conservation partners in the basin. The following activities and efforts were undertaken in the last 6 months.

- 1) Participated in the 2018 Minnesota Association of Watershed Districts annual meeting in Alexandria, MN on November 29th and 30th. The RRRRA had an exhibit space at the annual conference.
- 2) December 3rd participated in the Red River Basin Commission's Drainage Integration Workgroup meeting at Moore Engineering.
- 3) Participated in the North Dakota Water Resource District and Water Users Association annual meeting in December in Bismarck, ND.
- 4) Participated in the 2018 Prairie Grains Conference on December 12th and 13th in Grand Forks, ND. The RRRRA shared an exhibit space with Red River Basin Commission at the annual conference. Had a brief conversation with Andy Martin, of Senator Klobuchar's staff. Provided him with the RCPP watershed fact sheets and gave him a brief update on RCPP planning progress.

- 5) Met on December 20th with Grand Forks NRCS and SCD staff regarding 2019 soil health workshop in Grand Forks in March.
- 6) The RRRA had a display at the Red River Basin Commission's 36th Annual Red River Basin Land & Water International Summit Conference. January 15-17, 2019 at the Alerus Center/Canad Inns Grand Forks, ND. A short RCPP watershed planning presentation and update report were made by Keith Weston, Executive Director to the conference participants.
- 7) Worked with Rob Sip, Executive Director, RRWMB on a summer tour scheduled for June 26, 2019. A tour "**save the date**" email postcard was sent out in March.
- 8) Worked on three outreach projects under the NRCS cooperative agreement 68-6633-16-512. Worked with ND Department of Health, Water Quality Division on the Ag BMP workshop in Crookston, and soil health workshops with the Grand Forks County SCD and Becker County SWCD.
- 9) Participated in Ag BMP teleconferences on March 11th and 15th to finalize speakers, budget and logistics for the "Red River Basin/Cold Climate Agricultural Nutrients BMP Workshop. The workshop was held on April 16 and 17 at the University of Minnesota-Crookston in Crookston, MN.
- 10) Attended the 2019 Red River Basin Drainage Conference Tuesday - March 19, 2019 at the Marriott Hotel and Convention Center Moorhead, MN.
- 11) At RRRA March 20th Board meeting, the RRRA Board directed the Executive Director to develop an outreach strategy with Roberta Quintero, Senior Marketing Executive, Midwest Radio of Fargo-Moorhead Radio & Digital. April 9th meeting was held to begin working with her and other partners in the Red River Watershed Center to explore "Know your Watershed" outreach opportunities regarding the RCPP watersheds in the Red River basin. A budget of up to \$2,500 was approved.
- 12) Keith Weston attended the 21st Annual Joint conference on March 20th and 21st at the Marriott Hotel and Convention Center Moorhead, MN.
- 13) RRRA met on March 25th with Rob Sip, Executive Director, RRWMB, Buffalo-Red Administrator Bruce Albright, MAWD Executive Director Emily Javens and RRBC staff to develop an itinerary for the RRRA summer tour now scheduled for June 27, 2019. A tour "**save the date**" email postcard was sent out in April.
- 14) April 3rd we participated in the Webinar 1: Red River Basin Geology, Soils and Soil Nutrient Characterizes which is part of the Red River Basin/Cold Climate Agricultural Nutrients BMP Workshop.

- 15) Attended the RRBC's Drainage Integration Project landowner meeting in Harwood, ND on April 4th. Response from landowners has been good.
- 16) The "Red River Basin/Cold Climate Agricultural Nutrients BMP Workshop was held April 16th and 17th at the University of Minnesota-Crookston in Crookston, MN. Approximately 90 individuals participated in the workshop. Final Workshop summary materials will be transcribed. Presentation videos will be made, and a workshop report will be prepared upon review by the planning team. The workshop participants will also have an opportunity to review and comment. A finalize report is planned for later this fall. Fact sheets will be derived from the workshop report.
- 17) Participated in the planning of the RRRA and Minnesota Association of Watershed districts summer tour. This tour is planned for June 27th. A postcard was sent out.
- 18) May 1st and 3rd visited with Julie Ellingson, from the ND Water Education Foundation regarding a July 18th ND summer tour of the Lower Red River basin. Currently, the tour is planning to provide participants with an opportunity to observe flood control projects and flood water management practices and hear from local water resource managers about their efforts to reduce flood damages. Tour highlights may include the Forest River and North Branch Park River Regional Conservation Partnership Program (RCPP) watersheds, with a stop in Crystal, ND; USDA, Natural Resources Conservation Service (NRCS) P.L. 566 Small Watershed Program dam rehabilitation projects at Matecjek dam (Walsh County) City of Grafton flood diversion; USDA, NRCS flood plain easements on the Lower Forest River near the confluence of the Forest and Red Rivers.
- 19) May 2nd RRRA met with Rob Sip, Executive Director of the Red River Watershed Management Board regarding cooperating on outreach activities in the Basin. We have discussed sharing booth space at some events during the year.
- 20) May 8th Keith Weston, Executive Director attended a meeting with NRCS Chief Matthew Lohr at the North Dakota State School of Science in Wahpeton, ND. He provided a seven-minute overview presentation of the RRRA's RCPP planning efforts.
- 21) May 9th Keith Weston, Executive Director attended a North Dakota and South Dakota Conservation Partnership forum in Aberdeen, SD. NRCS leadership (NRCS Chief Lohr, Central Regional Conservationist Kevin Wickey, ND State Conservationist Mary Podoll, and SD State Conservationist Jeff Zimprich) were in attendance to hear from conservation partners. He requested the Chief and NRCS allow additional flood storage on NRCS dam rehabilitation projects in the Red River Basin and allow flexibility for using the new RCPP program in the 2018 Farm Bill.

- 22) Attended the Red River Basin Commission's Drainage Integration Project meeting in West Fargo on May 23rd. The project team members heard from NDSU staff specialists on water quality monitoring and parameters.

Conclusion and Steps Moving Forward

The Watershed Districts and Water Resource Districts have spent approximately \$2,396,000 and NRCS \$5,590,000 during this RCPP planning process. During this past 6-month reporting period the Sponsors and NRCS have spent an estimated \$1,725,400 on planning efforts.

The sponsoring watershed districts and water resource districts and their partners have spent an estimated \$54,477,444 on non-RCPP water resource projects in the basin during this reporting period.

During this reporting period the following extension and amendments have been approved or are being pursued by the sponsors and NRCS.

- 1) NRCS requested a 1-year extension on the Tongue River Watershed agreement 68-6633-16-508.
- 2) The Cass County Joint WRD (CCJWRD) has requested an amendment to the cooperative agreement for the Upper Maple River RCPP watershed 68-6633-15-010. This amendment will request a schedule change to reflect a NRCS 1-year extension and also a funding change. The CCJWRD is requesting to use remaining RCPP funds not used under the Swan Creek RCPP watershed 68-6633-15-009 for the Upper Maple River Watershed. The request is based on the desire to address the environmental account in P&G. The current plan is currently not able to identify a NED plan alternative.
- 3) The Bois de Sioux Direct watershed sponsored by the Bois de Sioux Watershed District (agreement 68-6322-16-510) and Four Legged Lake watershed sponsored by the Red Lake Watershed District (agreement 68-6322-16-505) have formally written letters to NRCS requesting to cease watershed planning. This leaves 10 RCPP watersheds in Minnesota still actively planning.
- 4) The sponsors from all ten of the actively planned Minnesota RCPP watersheds have expressed interest in requesting the 1-year time extension that is allowed under the respective cooperative agreements.

The RRR Board of Managers requested a 1-year extension on agreement NRCS MOU 14-C-ND-669. The amendment for this agreement was received in June.

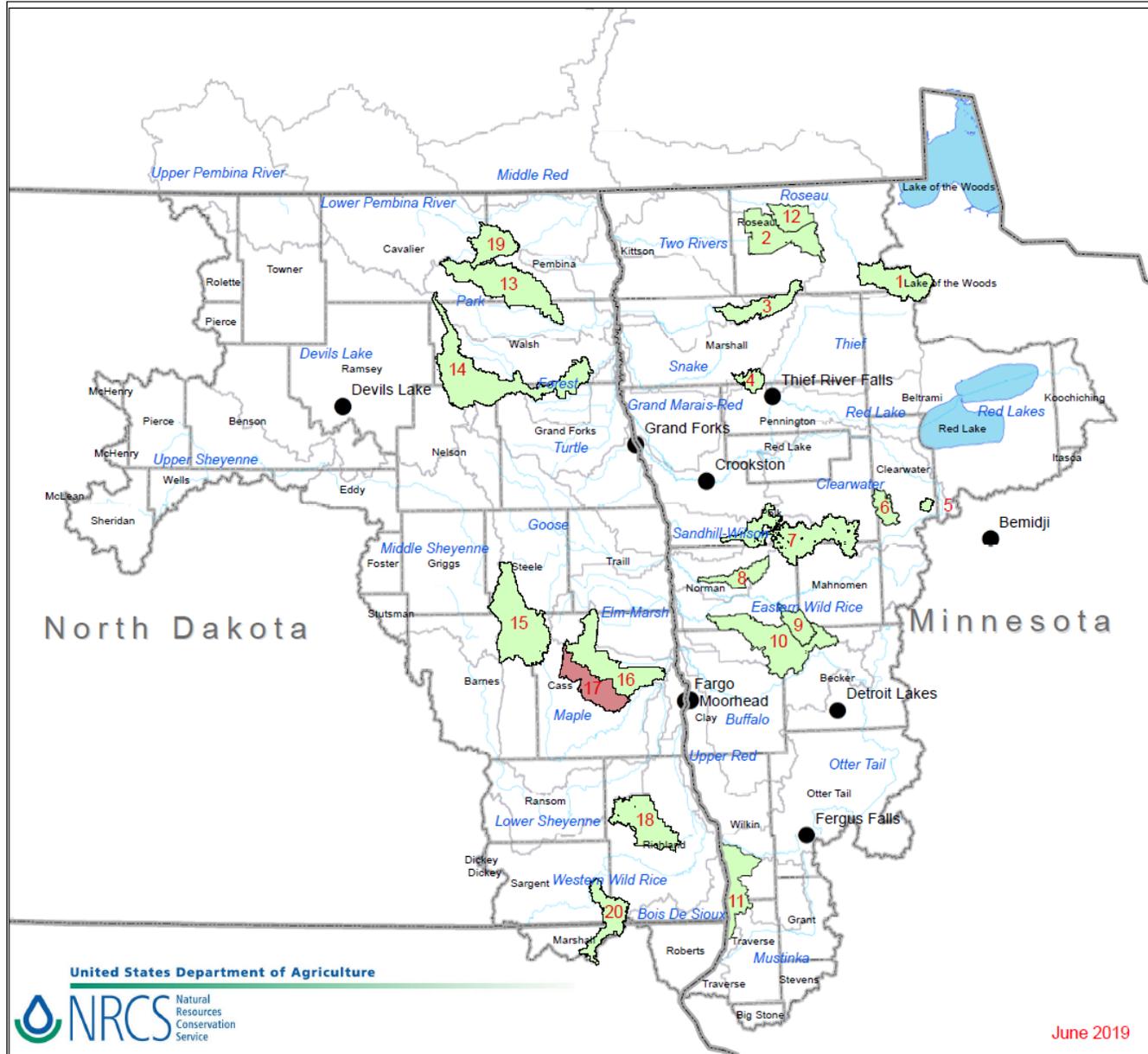
As the RCPP watershed planning moves forward there continues to be several watersheds that need to be monitored closely, on a monthly or at least quarterly basis, so they can achieve planning target dates.

In April, at a joint meeting between NRCS and the RRRRA Co-Chairmen, there was discussion about prioritizing watersheds and making sure there were adequate RCPP funds available to complete as many watershed plans as possible. The following table is a breakdown into five categories of the watershed planning status and an expected timetable to complete the watershed plan.

<u>WD/WRD - Watershed Name</u>	<u>Completion Expected</u>	<u>Plan Completion Date</u>
Roseau River Watershed - Beltrami Island Area Water Management Project	Questionable	With Ext. 9-30-2020
Two Rivers Watershed - Klondike Clean Water Retention Project	Still Feasible	With Ext. 9-30-2020
Middle-Snake-Tamarac Rivers Watershed - J.D. #19 East Park WMA Watershed	Still Feasible	With Ext. 9-30-2020
Middle-Snake-Tamarac Rivers Watershed - J.D. #14 Watershed	Still Feasible	With Ext. 9-30-2020
Red Lake - Four Legged Lake Watershed	No	No
Red Lake - Pine Lake Watershed	Questionable	With Ext. 9-30-2020
Sand Hill - Upper Sand Hill River Watershed	Still Feasible	5/31/2020
Wild Rice - Green Meadow Sub watershed	Still Feasible	With Ext. 9-30-2020
Wild Rice - Moccasin Creek Sub watershed	Yes - Still Feasible	With Ext. 9-30-2020
Wild Rice - South Branch Wild Rice River Sub watershed	Yes - Still Feasible	With Ext. 9-30-2020
Bois de Sioux - Rabbit River		
Bois de Sioux - Bois de Sioux Direct Watershed	No	No
Bois de Sioux - Five Mile Creek		
Park River Joint WRD - North Branch Park River Watershed	Yes	9/30/2019
Forest River - Forest River Watershed	Yes - Still Feasible	6/30/2019
Cass County Joint WRD - Upper Maple River Watershed	Yes	9/30/2019
Cass County Joint WRD - Rush River Watershed	Yes	9/30/2019
Cass County Joint WRD - Swan Creek Watershed	No	Terminated
Richland County WRD - North Branch Antelope Creek Watershed	Questionable	9/30/2019
Pembina County WRD - Tongue River Watershed	Yes - Still Feasible	With Ext. 6-1-2020
Sargent County WRD - Shortfoot Creek Watershed	Yes	9/30/2019
Roseau River - Whitney Lake Watershed	Yes	With Ext. 9-30-2020
Roseau River - Lower Roseau Lake Bottom Watershed		

Another meeting between NRCS managers and RRRRA Co-chairmen should be scheduled for September to get status updates and address planning concerns and issues.

Appendix 1 - RCPP Watershed Location Map



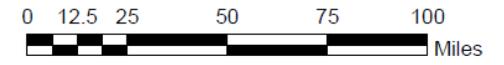
Red River Basin of the North RCPP Watershed Project Areas

ID	Name
1	Beltrami Island State Forest
2	Klondike
3	Middle-Snake-Tamarac JD-19
4	Middle-Snake-Tamarac JD-14
5	Four Legged Lake
6	Pine Lake
7	Upper Sandhill River
8	Green Meadow
9	Moccasin Creek
10	South Branch Wild Rice River
11	Bois De Sioux Direct
12	Whitney Lake
13	North Branch Park River
14	Forest River
15	Upper Maple River
16	Rush River
17	Swan Creek Planning Ceased
18	Antelope Creek
19	Tongue River
20	Shortfoot Creek

Legend

- RCPP Project Watershed
- Planning Ceased
- City
- Counties

1 in = 29 miles



Appendix 2: - Minnesota Red River RCPP PL-566 Update

68-6322-16-503 Pine Lake Watershed

- NRCS awaits RLWD's decision whether to request an extension or termination of agreement.
- Only Site E alternative situated on a trout stream remains for consideration and requires potentially unattainable permits.
- RCPP funds – 100% expended (\$500,000)
- Progress reported - through 3/31/2019
- Review points - #5 & #6 are past due.
- Agreement expiration date – 9/30/2019

68-6322-16-505 Four Legged Lake Watershed

- RLWD has requested NRCS to terminate and closeout agreement. NRCS awaits additional documentation required for submittal to GAD.
- RCPP funds – 100% expended (\$265,088.00)
- Progress reported – through 3/31/2019
- Review points - #3, #4, #5, & #6 were not completed.
- Agreement expiration date – 9/30/2019

68-6322-16-506 Moccasin Creek Sub-watershed

- WRWD has requested a one-year extension of agreement at no additional cost. NRCS awaits additional documentation required for submittal to GAD.
- RCPP funds – 35% expended (\$177,221.27)
- Progress reported – through 12/31/2018
- Review point #3 submitted to NRCS, Affected Environment (Inventory and Analysis of Resources)
- Review points #4, #5 are past due.
- Agreement expiration date – 9/30/2019

68-6322-16-508 South Branch of Wild Rice River Watershed

- WRWD has requested a one-year extension of agreement at no additional cost. NRCS awaits additional documentation required for submittal to GAD.
- RCPP funds – 41% expended (\$203,283.30)
- Progress reported – through 12/31/2018
- Review points 3, #4, #5 are past due.
- Agreement expiration date – 9/30/2019

68-6322-16-509 Green Meadow Sub-watershed

- WRWD has requested a one-year extension of agreement at no additional cost. NRCS awaits additional documentation required for submittal to GAD.
- RCPP funds – 26% expended (\$131,064.54)
- Progress reported – through 12/31/2018
- Review points - #3, #4 & #5 are past due.
- Agreement expiration date – 9/30/2019

68-6322-16-510 Bois de Sioux Direct Watershed

- BdSWD has requested NRCS to terminate and closeout agreement. NRCS awaits additional documentation required for submittal to GAD. Project Team determined there were no viable alternatives to properly address ag damages in the watershed.
- RCPP funds – 99% (\$496,035.61)
- Progress reported – through 3/31/2019
- Review points - #5 & #6 were not submitted.
- Agreement expiration date – 9/30/2019

68-6322-16-511 J.D. #14 Flood Damage Reduction Project

- MSTRWD has requested a one-year extension of agreement at no additional cost. NRCS awaits additional documentation required for submittal to GAD. Work on the affected environment and development of alternatives tasks is ongoing.
- RCPP funds – 33% expended (\$162,370.39)
- Progress reported – through 12/29/2018
- Review points - #4 & #5 are past due.
- Agreement expiration date – 9/30/2019

68-6322-16-512 Beltrami Island State Forest Watershed Project

- RRWD has requested to extend this agreement for one additional year and to reduce the total project budget by \$84,735 (\$59,315 Fed/\$25,420 SLO). Request with supporting documentation has been submitted to GAD for acceptance. Scope of EA/EIS, and affected environment task is ongoing.
- RCPP funds – 22% expended (\$112,258), no payment requested for FY19-Q1 or FY19-Q2.
- Progress reported – through 12/31/2018.
- Review points - #3, #4 & #5 are past due.
- Agreement expiration date – 9/30/2019

68-6322-16-513 Klondike Clean Water Retention Project #11

- TRWD has requested a one-year extension of the agreement at no additional cost. Request with supporting documentation has been submitted to GAD for acceptance. Submittal of RP #3, Affected Environment is expected Jul, 2019.
- RCPP funds – 32% expended (\$158,782.58)
- Progress reported – through 5/23/2019
- Review points - #3, #4 & #5 are past due
- Agreement expiration date – 9/30/19

68-6322-16-514 J.D. #19 Flood Damage Reduction Project - East Park

- MSTRWD has requested a one-year extension of agreement at no additional cost. NRCS awaits additional documentation required for submittal to GAD. Work on the affected environment and development of alternatives tasks is ongoing.
- RCPP funds – 29% expended (\$144,065.30)
- Progress reported – through 12/29/18
- Review points - #4 & #5 due 3/30/19
- Agreement expiration date – 9/30/19

68-6322-16-515 Whitney Lake Watershed Project

- RRWD has requested to extend this agreement for one additional year and to increase the total project budget by \$84,735 (\$59,315 Fed/\$25,420 SLO). Request with supporting documentation has been submitted to GAD for acceptance. RP #6 documentation and completion of preferred alternative is ongoing.
- RCPP funds – 100% expended (\$500,000)
- Progress reported – through 12/31/18.
- Review points – RP #6 is due 9/30/2019
- *Agreement expiration date – 9/30/2019

68-6322-16-522 Upper Sandhill River Watershed

- Project Team meeting held March 7, 2019. Awaiting submittal of RP #2-Purpose and Need following PT comment period. USHRWD intends to request a one-year, no-cost extension in the future.
- RCPP funds – 25% expended (\$126,417.56)
- Progress reported – through 3/31/2019.
- Review points - #2, #3 & #4 are past due.
- Agreement expiration date – 5/31/2020

Appendix 2: - North Dakota Red River RCPP PL-566 Update

Rush River (Cass WRD)

- \$391k/\$500k expended at this point.
- All review point items submitted to NRCS review, other than final formatted Watershed Plan/EA.
- NED alternative is a 2.2-mile levee around the City of Amenia, estimated construction cost \$3.2 million.
- ND NRCS reviewed EA, and concurs no significant cultural resource or environmental issues exist which would require an EIS or impair implementation.
- Final plan document expected by the end of June 2019.

Upper Maple River (Cass WRD)

- \$500k/\$500k expended at this point. Work has been proceeding under Sponsor funding.
- All review point items submitted for ND NRCS review, other than final formatted Watershed Plan/EA.
- Project involves two alternatives, either alone or in combination, for dry dams (Alt #2A is a 2.3 mile long embankment with gated release, total storage capacity 546.8 ac-ft, \$11.8 million construction cost estimate)(Alt #5 is a 3.4 mile long

embankment with gated release, total storage capacity 1,340 ac-ft, \$13 million construction cost estimate).

- EA currently under review by ND NRCS- no significant cultural resource or environmental issues were identified by the consultant.
- Sponsor requested to transfer funds leftover from Swan Creek plan, which terminated with \$300k remaining, in order to have consultant to additional work on evaluating non-traditional economic benefits (i.e. environmental and/or social). NRCS agreed, so long as a draft plan document was provided to NRCS to close out current agreement successfully. Draft plan document could certainly be completed by the end of June, but consultant staffing is impeding.

NB Park River (Park River Joint WRD)

- \$311k/\$500k expended at this point.
- Items not yet submitted for interim reviews: geologic investigations, draft EA, economic analysis of alternatives, and final formatted Watershed Plan/EA. The consultant indicates that geologic investigation work and traditional economic analysis is largely completed.
- Project involves the following final alternatives: (Alt #4 is an off-channel dry dam with two flood pools, having a combined storage capacity of 4,600 ac-ft) (Alt #5 would involve a series of 3 off-channel dry dams that have a combined storage capacity of 3,800 ac-ft). (Alt #7 is diversion channel that would serve to route flood water around the City of Crystal).
- Expected to be completed by the agreement end date of Sept 30, 2019.

NB Antelope Creek (Richland WRD)

- \$294k/\$500k expended at this point.
- The only items that have been submitted for interim review to this point, beyond P&N statements, include the existing condition H&H models.
- Consultant is doing simultaneous work on resource inventory, field work to evaluate feasibility of alternatives (diversions and impoundments), and H&H evaluations and hopes to get to the point of writing up that work for submittals soon. Still believes that could be largely completed by the agreement end date of Sept 30, 2019.

Forest River (Walsh WRD)

- \$314k/\$1,000k expended to date.
- Work on the plan was halted for a period of time, in order to sync with H&H work on the Matecjek Dam rehab job in this same watershed.
- Final alternatives still under feasibility evaluations in the field (geotech, wetlands), but consist of bypass channel alternatives at this point.
- Agreement end date is not until May 2020 (same end date as RCPP MOU, which is being extended another year- plan will likely need additional time as well).

Tongue River (Pembina WRD)

- \$192k/\$500k expended to date.
- Resource inventory, H&H modeling, no-action economics work largely done.
- Channel stability a significant issue, so substantially more complex resource assessment work required.
- Alternatives for off-channel storage being evaluated for feasibility by the consultant.
- NRCS working on alternative for river restoration with incorporated floodplain storage.
- Agreement end date is not until May 2020 (same end date as RCPP MOU, which is being extended another year- plan will likely need additional time as well).

Shortfoot Creek (Sargent WRD)

- \$424k/\$500k expended at this point
- Items not yet submitted for interim review: draft EA, economic analysis, final formatted Plan/EA.
- Project involves the following final alternatives: (Alt #7 is an on-channel dry dam with a storage capacity of 2,461 ac-ft)(Alt #10A involves a diversion channel and embankment to form an off-channel dry dam with a storage capacity of 2,808 ac-ft)
- Note that Alt #12, an off-channel impoundment providing 5,921 ac-ft of storage, has not been able to be pursued given it crosses into South Dakota and the Conservation District there has not been responsive.

Appendix 3 - Summary of RCPP Watershed Planning Activities for Period November 21, 2018 to May 20, 2019

Appendix 3: Summary of Flood Damage Reduction Activities in Red River Watershed - For Period from November 21, 2018 to May 20, 2019

				Study	Accomplishments: To May 20, 2019						Total	
	Agreement	Amendment	Area		Purpose	Env.		Env.	Draft	Incurred	Estimated	
WD/WRD - Watershed Name	Signed	Signed	(acres)	Plan of Work	& Need	Document	Alternatives	Affects	Plan	To Date	Study Cost	
1 Roseau River Watershed - Beltrami Island Area Water Management Project	2/18/2016		93,043	7/11/16 Scoping	10/16/2017, 1/8/18	ongoing	Ongoing	Ongoing		\$112,258	\$715,133	
2 Two Rivers Watershed - Klondike Clean Water Retention Project	2/11/2016		113,776	6/30/16 Scoping	7/20/2017	ongoing	preliminary work	Ongoing		\$158,782	\$714,286	
3 Middle-Snake-Tamarac Rivers Watershed - J.D. #19 East Park WMA Watershed	2/18/2016		66,270	9/26/16 Scoping	draft 11-30-17, 9-4-18	8/27/2018	preliminary work			\$144,065	\$715,680	
4 Middle-Snake-Tamarac Rivers Watershed - J.D. #14 Watershed	2/18/2016		23,068	4/21/16 Scoping	3/22/2018	7/30/2018	preliminary work			\$162,370	\$715,889	
5 Red Lake - Four Legged Lake Watershed	2/10/2016		6,253	7/12/16 Scoping	10/21/16 Draft, 6-28-18	Ongoing	Ongoing		Ceased Planning	\$265,088	\$378,697	
6 Red Lake - Pine Lake Watershed	2/10/2016		29,360	7/12/16 Scoping	3/9/2017	6/20/17	6/7/2018	Ongoing		\$500,000	\$757,395	
7 Sand Hill - Upper Sand Hill River Watershed	9/14/2016		173,369	8/16/2017 Scoping	ongoing 6-30-18	ongoing	Ongoing	Ongoing		\$126,417	\$732,360	
8 Wild Rice - Green Meadow Sub watershed	3/9/2016		43,310	5/5/16 Scoping	1/25/17, 11-26-18	ongoing	preliminary work			\$131,064	\$715,248	
9 Wild Rice - Moccasin Creek Sub watershed	3/9/2016		38,799	6/12/17 Scoping	4/26/2018	8/27/2018	ongoing			\$177,221	\$715,283	
10 Wild Rice - South Branch Wild Rice River Sub watershed	3/9/2016		165,236	6/12/17 Scoping	6/13/2018	4/28/2018	ongoing			\$203,283	\$715,295	
11 Bois de Sioux - Rabbit River	WD Declined		80,136									
12 Bois de Sioux - Bois de Sioux Direct Watershed	4/4/2016		96,328	7/27/16 Scoping	8/10/17 Meeting	3/12/2018	10/26/18	ongoing	Ceased Planning	\$496,035	\$875,000	
13 Bois de Sioux - Five Mile Creek	WD Declined		77,643									
14 Park River Joint WRD - North Branch Park River Watershed	9/16/2015		165,245	2/17/16 Scoping	5/5/16 Draft	ongoing	5/25/16; 8/31/16	Ongoing		\$311,000	\$732,000	
15 Forest River - Forest River Watershed	*9/18/2015	5/11/2017	245,300	2/18/16 Scoping	6/22/16 Draft	ongoing	5/25/16; 8/31/16	Ongoing		\$314,000	\$1,428,885	
16 Cass County Joint WRD - Upper Maple River Watershed	9/24/2015		187,006	1/6/16 Scoping	7/14/16 Draft	ongoing	2 chosen+No Action Looking at possible Env Acct rather than NED	Ongoing		\$500,000	\$940,000	NRCS 1-yr Extension requested May 2019
17 Cass County Joint WRD - Rush River Watershed	9/24/2015		141,929	1/6/16 Scoping	7/1/16 Draft	ongoing	8/2/16; 11/16/16	Ongoing		\$391,000	\$940,000	
18 Cass County Joint WRD - Swan Creek Watershed	9/24/2015		87,707	1/6/16 Scoping	6/29/16 Draft	ongoing	7/25/16; 11/10/16		Ceased Planning	\$187,336	\$940,000	
19 Richland County WRD - North Branch Antelope Creek Watershed	4/26/2016		111,327	11/10/16 Scoping	5/24/2018	ongoing	preliminary work			\$294,000	\$824,000	
20 Pembina County WRD - Tongue River Watershed	5/27/2016		67,000	4-5-17 Scoping	11/21/2017 Draft, being revised	ongoing	Ongoing	Ongoing		\$192,000	\$799,151	NRCS 1-yr Extension approved May 30, 2019
21 Sargent County WRD - Shortfoot Creek Watershed	4/25/2016		74,247	6/28/16 Scoping	7/28/16 Draft	ongoing	Under review	Ongoing		\$424,000	\$940,000	
22 Roseau River - Whitney Lake Watershed	5/4/2016		47,384	4-28-17 Scoping	8/24/2017	6/1/2018	9/26/18	Ongoing		\$500,000	\$757,395	
Roseau River - Lower Roseau Lake Bottom Watershed	Ineligible		109,000									
Totals for Approved RCPP Studies			2,242,736							\$5,589,919	\$16,051,697	
Note: Updated figures for cost incurred may not have been obtained for all studies.												
*Note: Expansion of the study area and budget increase for the Forest River Watershed was approved for area 18 on 5-11-17												
Whitney Lake and Beltrami Island State Forest Watersheds are currently being amended to adjust planning budgets and completion schedules												
Upper Maple River Watershed sponsor has requested to do an amended budget and completion schedule - request sent in May												

Appendix 4 - Summary of Partner Non-RCPP Flood Damage Reduction Activities for Period May 21, 2018 to November 20, 2018

Name of Project	WD/WRD Watershed	Costs from	Costs for	Cost For	Cost For	Cost For	Cost For	Total Cost	Total	
		May 21, 2015 to 20-May-16	May 21, 2016 to 20-May-17	May 21, 2017 to Nov. 20, 2017	Nov. 21, 2017 to May 20, 2018	May 21, 2018 to Nov. 20, 2018	Nov. 21, 2018 to May 20, 2019	Incurred for Project	Project Cost	
Pembina River Watershed in ND:										
Renwick Dam Rehabilitation	Pembina County WRD; Tongue R. Subwat	\$250,000		\$0	\$0	\$0	\$0	\$8,926,418	\$8,926,418	Note 1
Renwick Dam Gate Retrofit	Pembina County WRD; Tongue R. Subwatersh	\$140,000		\$0	\$0	\$0	\$0		\$164,722	
Renwick Dam Emergency Action Plan	Pembina County WRD; Tongue R. Subwatershed		\$9,224	\$0	\$0	\$0	\$0		\$79,600	
Hydrology Model - Pembina River	Pembina County WRD		\$3,480	\$0	\$0	\$0	\$0	\$10,712	\$10,712	Note 1B
Pembina River border dike	Pembina County WRD			\$55,948	\$0	\$2,839	\$0			Note 1B
Detention study - Pembina River	Pembina County WRD	\$110,917	\$39,315	\$0	\$0	\$0	\$0	\$203,027	\$203,027	
Detention study - local between Pembina & Park	Pembina County WRD & Walsh County W	\$6,672	\$0	\$0	\$0	\$0	\$0	\$56,538	\$56,538	
Herzog Dam Gate Repair	Pembina County WRD; Tongue R. Subwatershed					\$3,679	\$0			Note 1B
Park River Watershed in ND:										
Hydrology Model - Park River	Walsh County WRD & Pembina County WRD		\$2,393	\$0	\$0	\$0	\$0	\$6,924	\$6,924	
Grafton Flood Control Project	City of Grafton		\$1,152,200	\$ 2,465,569	\$5,502,331	\$11,014,899	\$10,230,137		\$47,400,000	Note 1A
Detention study - Park River	Walsh County WRD & Pembina County W	\$23,672	\$25,820	\$0	\$0	\$0	\$0	\$165,918	\$165,918	
Forest River Watershed in ND:										
Michigan spillway	Nelson County WRD	\$1,060,100	\$384,744	\$0	\$6,674	\$0	\$0	\$4,586,668	\$4,628,853	
Turtle River Watershed in ND:										
Upper Turtle River Dam #1 Emergency Action Pla	Grand Forks County WRD	\$11,707			\$0	\$0	\$0	\$11,707	\$11,707	
Upper Turtle River Dam #4 EAP	Grand Forks County WRD	\$10,820			\$0	\$0	\$0	\$10,820	\$10,820	
Upper Turtle River Dam #5 EAP	Grand Forks County WRD				\$0	\$0	\$0		\$15,000	
Upper Turtle River Dam #8 EAP	Grand Forks County WRD	\$11,337			\$0	\$0	\$0	\$11,337	\$11,337	
Elm River Watershed in ND:										
Elm River Dam #1 Repair	Steele County WRD						\$11,471	\$11,471	\$27,150	Note 1B
Rush River Watershed in ND:										
	Rush River WRD					\$0	\$0			
Sheyenne River Watershed in ND:										
Sheyenne Diversion Low Flow Improvements	SE Cass WRD - Sheyenne River			\$0	\$0	\$0	\$0	\$14,000	\$350,000	
Valley City - Flood Protection, several phases			\$5,845,555	\$1,641,044	\$2,721,859	\$4,546,076	\$14,927,451		\$143,000,000	Note 2
Lisbon - Several Phases			\$2,100,694	\$1,383,702	\$2,913,515	\$2,007,995	\$2,825,841		\$47,000,000	Note 3
McVillem Dam	Nelson County WRD	\$15,600		\$0	\$0	\$0	\$0	\$15,600	\$15,600	
Maple River Watershed in ND:										
Lake Bertha Flood Control Project	Cass County Joint WRD		\$0	\$0	\$116,853	\$0	\$0	\$116,853	\$541,780	
Swan Buffalo Detention Dam #5 Improvements	Maple River WRD		\$0	\$150,098	\$0	\$0	\$0		\$192,180	Note 1C
Swan Buffalo Detention Dam #8 Improvements	Maple River WRD		\$0	\$0	\$0	\$0	\$0		\$183,760	
Swan Buffalo Detention Dam #12 Improvements	Maple River WRD		\$0	\$116,263	\$0	\$0	\$0		\$168,964	Note 1C
Upper Maple River Dam	Maple-Steele Jt. WRD - Maple River Water	\$5,000,000		\$0	\$0	\$0	\$0	\$8,500,000	\$8,800,000	

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Wild Rice River Watershed in ND:										
Winner Dam Study	Sargent County WRD - Wild Rice R. Watershed		\$22,913	\$4,723	\$424	\$0	\$0	\$28,060	\$122,410	Note 1B
Upper Wild Rice Watershed Study	Sargent County WRD - Wild Rice R. Water	\$136,000		\$0	\$0	\$0	\$0	\$160,000	\$210,000	
Storm Lake Outlet Study	Sargent County WRD - Wild Rice R. Watershed			\$0	\$0	\$0	\$0		\$35,255	
Bois de Sioux Watershed in MN:										
Redpath Impoundment	Bois de Sioux Watershed-Mustinka River	\$27,388			NR	\$0	\$286,208	\$8,529,907	\$34,000,000	
Middle-Snake-Tamarac Watershed in MN:										
New Folden	Middle River				\$43,065	\$0	\$94,550			
Swift Coulee	Middle River				\$17,348	\$0	\$69,583			
Red lake Watershed in MN										
Black River Watershed			\$170,684	\$588,665	\$262,090	\$0	NR			
West Side Flood Damage Reduction Project						\$0	NR			
Roseau River Watershed in MN:										
RRWMA					\$50,751	\$0	NR			
Roseau Lake					\$318,187	\$0	NR			
Sand Hill Watershed in MN										
					NR	\$0	NR			
Two Rivers Watershed in MN										
					NR	\$0	\$0			
Wild Rice River Watershed in MN										
Halstad Levee Improvement		\$129,803	\$218,665	\$62,256	\$85,749	\$0	\$313,977			
Goose Prairie WMA		\$11,623	\$35,761	\$5,119	\$70,488	\$0	\$46,873			
Lower Wild Rice Corridor		\$20,621	\$16,925	\$8,167	\$13,127	\$0	\$14,485			
Red River Mainstem:										
Oslo Access Project	Middle-Snake-Tamarac R. Watershed				\$65,992	\$0	\$0			
FM Diversion		\$98,360,000	\$131,266,627	\$40,402,817	\$29,369,902	\$19,030,810	\$25,359,149		\$2,200,000,000	Note 4
Upstream Detention						\$0	\$0			Note 5
MN EIS						\$0	\$0			
Oxbow, Hickson, Bakke Levee						\$0	\$0			
Moorhead Acquisitions, Interior Levees						\$0	\$0			
Fargo Acquisitions, Interior Levees						\$0	\$0	\$120,000,000	\$247,000,000	

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Entire Watershed:									
Comprehensive Watershed Management Plan	Red River Watershed					\$0	\$0	\$330,000	\$1,000,000
USGS Stream Gages - Each Fiscal Year	Red River Watershed	\$619,405	\$435,263	\$238,500	\$238,500	\$210,509	\$210,509		Note 6
Regional Detention	Red River Watershed	\$1,080	\$4,421	\$1,725	\$17,891	\$0	\$0	\$28,417	\$985,000 Note 7
Nutrient Management	RRBC					\$0	\$0		
Totals for Partners Projects		\$106,031,765	\$141,820,434	\$47,124,595	\$41,901,227	\$36,816,807	\$54,477,444		\$2,745,323,674
NR - No Report									
Note 1: Values shown in time periods is for non-federal costs incurred									
Note 1A: Recent cost estimated by comparing SWC spreadsheet from October 2017 and April 2018. Assumed SWC cost share at 35% for engineering cost.									
Note 1B: Only RRJWRD costs shown.									
Note 1C: Only SWC costs shown.									
Note 2: Recent cost estimated by comparing SWC spreadsheet from September 2018 and April 2019. Assumed SWC cost share at 80% for construction.									
Note 3: Recent cost estimated by comparing SWC spreadsheet from September 2018 and April 2019. Assumed SWC cost share at 85% for construction.									
Note 4: \$1.4B non-federal cost; Comparison of September 30, 2018 and April 30, 2019 Fiscal Report used to obtain current expenditures.									
Note 5: Amount obligated to upstream detention projects. Not paid out yet.									
Note 6: Amount paid is 1/2 of non-federal (RRJWRD of ND, RRWMB of MN, ND SWC, MNDNR) portion for FY 2019.									
Note 7: \$230,000 non-fed., \$754,086 federal; payment shown is from RRJWRD									